Amazon Elastic Compute Cloud

CLI Reference API Version 2012-05-01



Amazon Elastic Compute Cloud: CLI Reference

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Welcome

This is the *Amazon Elastic Compute Cloud Command Line Reference*. It provides the syntax, description, options, and usage examples for each of the Amazon EC2 API tools and AMI tools. The API tools are commands that wrap the Amazon EC2 API actions. The AMI tools are commands you install and run *on an instance* for the purposes of managing AMIs. Often, these AMI tools are installed with the AMI.

Amazon EC2 is a web service that provides resizeable computing capacity that you use to build and host your software systems.



Note

This guide also includes the commands for Amazon Virtual Private Cloud (Amazon VPC). For more information about the service, go to the Amazon Virtual Private Cloud User Guide.

Amazon EC2 API Tools	Download the Amazon EC2 API tools.
Amazon EC2 AMI Tools	Download the Amazon EC2 AMI tools.
Getting Started with the CLI	Instructions for installing the Amazon EC2 API tools.
Commands for AMI Tools (p. 481)	Alphabetical list of all Amazon EC2 AMI tools commands.
Commands for API Tools (p. 6)	Alphabetical list of all Amazon EC2 API tools commands.
Common Options for AMI Tools (p. 481)	Options that all AMI tools commands can use.
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Common Options for API Tools

Most API tools described in this section accept the set of optional parameters described in the following table.

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45

Option	Description
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

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ec2-allocate-address

Description

This command applies to both EC2 Elastic IP addresses and VPC Elastic IP addresses.

For EC2 addresses: This command acquires an Elastic IP address for use with your AWS account. For more information about EC2 Elastic IP addresses, go to Instance Addressing in the *Amazon Elastic Compute Cloud User Guide*.

For VPC addresses: This command acquires an Elastic IP address for use with your VPC. For information about VPC addresses and how they differ from EC2 addresses, go to the Elastic IP Addresses in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2allocaddr.

Syntax

ec2-allocate-address [-d domain]

Options

Name	Description	Required
-d,domain domain	Set to vpc to allocate the address for use with VPC instances. Type: String Default: Address is standard (allocated to EC2). Valid Values: vpc Condition: Required when allocating an address for use with VPC instances. Example: -d vpc	Conditional

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ADDRESS")
- Elastic IP address for use with your account
- The address's domain (standard or vpc)
- Allocation ID (an ID that AWS assigns to represent the allocation of the address for use with Amazon VPC; returned only for VPC Elastic IP addresses)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example returns an EC2 Elastic IP address for use with the account.

```
PROMPT> ec2-allocate-address
ADDRESS 192.0.2.1
```

Example Request

This example returns a VPC Elastic IP address for use with your VPC.

```
PROMPT> ec2-allocate-address -d vpc
ADDRESS 198.51.100.1 vpc eipalloc-5723d13e
```

Related Operations

- ec2-describe-addresses (p. 178)
- ec2-release-address (p. 410)
- ec2-associate-address (p. 15)
- ec2-disassociate-address (p. 345)

ec2-associate-address

Description

This action applies to both EC2 Elastic IP addresses and VPC Elastic IP addresses.

For EC2 addresses: This action associates an Elastic IP address with an instance in your AWS account. If the IP address is currently assigned to another instance, the IP address is assigned to the new instance. For more information about EC2 Elastic IP addresses, go to Instance Addressing in the Amazon Elastic Compute Cloud User Guide.

For VPC addresses: This action associates a VPC Elastic IP address with an instance or a network interface in your VPC. If the IP address is currently assigned to another instance or a network interface, Amazon EC2 returns an error. For information about VPC addresses and how they differ from EC2 addresses, go to the Elastic IP Addresses in the *Amazon Virtual Private Cloud User Guide*.

This is an idempotent operation. If you enter it more than once, Amazon EC2 does not return an error.

The short version of this command is ec2assocaddr.

Syntax

ec2-associate-address [-i instance_id | -n network interface] [ip_address | -a
allocation_id]

Options

Name	Description	Required
-i,instance instance_id	The instance to associate with the IP address. Type: String Default: None Example: -i i-43a4412a	Yes
ip_address	EC2 Elastic IP address to assign to the instance. Type: String Default: None Condition: Required for EC2 Elastic IP addresses. Example: 192.0.2.1	Conditional
-a,allocation-id allocation_id	The allocation ID that AWS returned when you allocated the Elastic IP address to your VPC. Type: String Default: None Condition: Required for VPC Elastic IP addresses. Example: -a eipalloc-5723d13e	Conditional

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-n, network-interface interface_id	The interface to associate with the IP address. This is only available in Amazon VPC. Type: String Default: None Condition: Conditional Example: -n eni-bc7299d4	Conditional

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>

Output

The command returns a table that contains the following information:

- Output type identifier ("ADDRESS")
- · Elastic IP address that you are assigning to the instance
- · Instance to which the IP address is assigned
- Association ID (returned only for VPC addresses)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example associates an EC2 Elastic IP address with an instance.

```
PROMPT> ec2-associate-address 192.0.2.1 -i i-43a4412a
ADDRESS 192.0.2.1 i-43a4412a
```

Example Request

This example associates a VPC Elastic IP address with an instance running in your VPC.

```
PROMPT> ec2-associate-address -a eipalloc-5723d13e -i i-4fd2431a
ADDRESS i-43a4412a eipalloc-5723d13e eipassoc-fc5ca095
```

Example Request

This example associates a VPC Elastic IP address with a network interface in your VPC.

```
PROMPT> ec2-associate-address -a eipalloc-4a4c6c23 -n eni-1001fa78
ADDRESS i-laelae78 eipalloc-4a4c6c23 eipassoc-1841907a
```

Related Operations

- ec2-allocate-address (p. 12)
- ec2-describe-addresses (p. 178)

Amazon Elastic Compute Cloud CLI Reference Related Operations

- ec2-release-address (p. 410)
- ec2-disassociate-address (p. 345)

ec2-associate-dhcp-options

Description

Associates a set of DHCP options (that you've previously created) with the specified VPC. Or, associates no DHCP options with the VPC.

After you associate the options with the VPC, any existing instances and all new instances that you launch in that VPC use the options. You don't need to restart or relaunch the instances. They automatically pick up the changes within a few hours, depending on how frequently the instance renews its DHCP lease. If you want, you can explicitly renew the lease using the operating system on the instance.

For more information about the supported DHCP options and using them with Amazon VPC, go to Using DHCP Options in Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2assocdopt.

Syntax

ec2-associate-dhcp-options { dhcp_options_id | default } -c vpc_id

Options

Name	Description	Required
dhcp_options_id	The ID of the DHCP options you want to associate with the VPC, or "default" if you want the VPC to use no DHCP options. Type: String Default: None Example: dopt-7a8b9c2d	Yes
-c vpc_id	The ID of the VPC you want to associate the DHCP options with. Type: String Default: None Example: -c vpc-1a2b3c4d	Yes

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("DHCPOPTIONS")
- The DHCP options ID (or "default" if no DHCP options are associated with the VPC)
- The VPC ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example associates the DHCP options with ID dopt-7a8b9c2d with the VPC with ID vpc-1a2b3c4d.

PROMPT> ec2-associate-dhcp-options dopt-7a8b9c2d -c vpc-la2b3c4d DHCPOPTIONS dopt-7a8b9c2d vpc-la2b3c4d

Example Request

This example changes the VPC with ID vpc-1a2b3c4d to use no DHCP options.

PROMPT> ec2-associate-dhcp-options default -c vpc-la2b3c4d DHCPOPTIONS default vpc-la2b3c4d

Related Operations

- ec2-create-dhcp-options (p. 67)
- ec2-describe-dhcp-options (p. 196)
- ec2-delete-dhcp-options (p. 128)

ec2-associate-route-table

Description

Associates a subnet with a route table. The subnet and route table must be in the same VPC. This association causes traffic originating from the subnet to be routed according to the routes in the route table. The action returns an association ID, which you need if you want to disassociate the route table from the subnet later. A route table can be associated with multiple subnets.

For more information about route tables, go to Route Tables in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2assocrtb.

Syntax

ec2-associate-route-table route_table_id -s subnet_id

Options

Name	Description	Required
route_table_id	The ID of the route table. Type: String Default: None Example: rtb-6aa34603	Yes
-s subnet_id	The ID of the subnet. Type: String Default: None Example: -s subnet-92a045fb	Yes

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ASSOCIATION")
- The route table association ID (needed to disassociate the route table)
- The route table ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example associates the route-table (with ID rtb-6aa34603) with the subnet with ID subnet-92a045fb.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-associate-route-table rtb-6aa34603 -s subnet-92a045fb ASSOCIATION rtbassoc-61a34608 rtb-6aa34603 subnet-92a045fb

Related Operations

- ec2-create-route-table (p. 98)
- ec2-delete-route-table (p. 153)
- ec2-disassociate-route-table (p. 348)
- ec2-describe-route-tables (p. 274)
- ec2-replace-route-table-association (p. 423)

ec2-attach-internet-gateway

Description

Attaches an Internet gateway to a VPC, enabling connectivity between the Internet and the VPC. For more information about your VPC and Internet gateway, go to the Amazon Virtual Private Cloud User Guide.



Note

For VPCs that existed before the 2011-01-01 API version: Before you can attach an Internet gateway, you must delete the legacy security group. For more information, go to "Deleting the Legacy Security Group" in the Security Groups section of the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2attigw.

Syntax

ec2-attach-internet-gateway internet_gateway_id -c vpc_id

Options

Name	Description	Required
internet_gateway_id	The ID of the Internet gateway to attach. Type: String Default: None Example: igw-c3a643aa	Yes
-c,vpc vpc_id	The ID of the VPC. Type: String Default: None Example: -c vpc-d9a045b0	Yes

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

• Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example attaches the Internet gateway with ID igw-eaad4883 to the VPC with ID vpc-11ad4878.

PROMPT> ec2-attach-internet-gateway igw-eaad4883 -c vpc-11ad4878

ATTACHMENT vpc-11ad4878 attaching

Related Operations

- ec2-create-internet-gateway (p. 77)
- ec2-delete-internet-gateway (p. 136)
- ec2-detach-internet-gateway (p. 334)
- ec2-describe-internet-gateways (p. 236)

ec2-attach-network-interface

Description

Attaches a network interface to an instance.

The short version of this command is ec2attnic.

Syntax

ec2-attach-network-interface NETWORKINTERFACE -i, --instance INSTANCE -d, --device-index DEVICEINDEX

Options

Name	Description	Required
-i,instance INSTANCE	The ID of the instance that will be attached to the network interface.	Yes
	Type: String	
	Default: None	
	Example: -i i-640a3c17	
-d,device-index DEVICEINDEX	The index of the device for the network interface attachment on the instance.	Yes
	Type: String	
	Default: None	
	Example: -d 1 eni-b35da6da	

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2 Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command attaches a network interface to the specified instance and returns the ID of the network interface that was attached.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example attaches the specified network interface to the specified instance.

PROMPT> ec2-attach-network-interface eni-b35da6da -i i-640a3c17 -d 1 eni-attach-dd3fdab4

Related Operations

• ec2-create-network-interface (p. 89)

Amazon Elastic Compute Cloud CLI Reference Related Operations

- ec2-delete-network-interface (p. 146)
- ec2-describe-network-interfaces (p. 248)
- ec2-describe-network-interface-attribute (p. 254)
- ec2-detach-network-interface (p. 337)
- ec2-modify-network-interface-attribute (p. 387)
- ec2-reset-network-interface-attribute (p. 443)

ec2-attach-volume

Description

Attaches an Amazon EBS volume to a running instance and exposes it as the specified device.



Note

Windows instances currently support devices xvda through xvdp. Device xvda is assigned to drive C:\, and, depending on the instance type, devices xvdb through xvde might be reserved by the ephemeral stores. Any device that is not reserved can be attached to an Amazon EBS volume.



Note

If a volume has an AWS Marketplace product code:

- The volume can only be attached to the root device of a stopped instance.
- You must be subscribed to the AWS Marketplace code that is on the volume.
- The configuration (instance type, operating system) of the instance must support that specific AWS Marketplace code. For example, you cannot take a volume from a Windows instance and attach it to a Linux instance.
- AWS Marketplace product codes will be copied from the volume to the instance.

For an overview of the AWS Marketplace, go to https://aws.amazon.com/marketplace/help/200900000. For details on how to use the AWS Marketplace, see AWS Marketplace.

The short version of this command is ec2attvol.

Syntax

ec2-attach-volume volume_id --instance instance_id --device device

Options

Name	Description	Required
volume_id	The ID of the Amazon EBS volume. The volume and instance must be within the same Availability Zone and the instance must be running. Type: String Default: None Example: vol-4d826724	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-i,instance instance_id	The ID of the instance to which the volume attaches. The volume and instance must be within the same Availability Zone and the instance must be running. Type: String Default: None Example: -i i-6058a509	Yes
-d,device device	Specifies how the device is exposed to the instance. Type: String Default: None Example: -d /dev/sdf (for Linux/UNIX) or -d xvdf (for Windows)	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key <i>EC2-PRIVATE-KE</i> Y	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
0, 0010 201 02M1	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- ATTACHMENT identifier
- ID of the volume
- · ID of the instance
- · The device as it is exposed to the instance
- Attachment state (e.g., attaching, attached, detached, detaching, error)
- · Time stamp when attachment initiated

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example attaches volume vol-4d826724 to instance i-6058a509 and exposes it as /dev/sdh. For information on standard storage locations, go to the Amazon Elastic Compute Cloud User Guide.

```
PROMPT> ec2-attach-volume vol-4d826724 -i i-6058a509 -d /dev/sdh ATTACHMENT vol-4d826724 i-6058a509 /dev/sdh attaching 2008-02-14T00:15:00+0000
```

- ec2-create-volume (p. 113)
- ec2-delete-volume (p. 165)
- ec2-describe-volumes (p. 308)
- ec2-detach-volume (p. 339)

ec2-attach-vpn-gateway

Description

Attaches a virtual private gateway to a VPC. For more information, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2attvgw.

Syntax

ec2-attach-vpn-gateway -p vpn_gateway_id -c vpc_id

Options

Name	Description	Required
vpn_gateway_id	The ID of the virtual private gateway to attach to the VPC. Type: String Default: None Example: vgw-8db04f81	Yes
-c,vpc vpc_id	The ID of the VPC. Type: String Default: None Example: -c vpc-1a2b3c4d	Yes

Option	Description	
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.	
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.	
	Example:region eu-west-1	
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.	
	Default: The EC2_URL environment variable, or	
	https://ec2.amazonaws.com if the environment variable is not set.	
	Example: -U https://ec2.amazonaws.com	
-K,private-key	The private key to use when constructing requests to Amazon EC2.	
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.	
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VGWATTACHMENT")
- ID of the attached VPC
- State of the attachment (attaching, attached, detaching, detached)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example attaches the virtual private gateway with ID vgw-8db04f81 to the VPC with ID vpc-1a2b3c4d.

PROMPT> ec2-attach-vpn-gateway vgw-8db04f81 -c vpc-la2b3c4d VGWATTACHMENT vpc-la2b3c4d attaching

- ec2-create-vpn-gateway (p. 123)
- ec2-describe-vpn-gateways (p. 330)
- ec2-detach-vpn-gateway (p. 342)
- ec2-create-vpc (p. 116)
- ec2-create-vpn-connection (p. 119)

ec2-authorize

Description

This command applies to both EC2 security groups and VPC security groups. For information about VPC security groups and how they differ from EC2 security groups, go to Security Groups in the *Amazon Virtual Private Cloud User Guide*.

This command adds a *rule* to a security group. The rule can be for ingress traffic, or for egress traffic (only if this is a VPC security group).

For EC2 security groups and ingress rules: This command either gives one or more CIDR IP address ranges permission to access a security group in your account, or it gives one or more security groups (called the *source groups*) permission to access a security group in your account. A source group can be in your own AWS account, or another.

For VPC security groups and ingress rules: This command either gives one or more CIDR IP address ranges permission to access a security group in your VPC, or it gives one or more other security groups (called the *source groups*) permission to access a security group in your VPC. The groups must all be in the same VPC.

For VPC security groups and egress rules: This command permits instances in a VPC security group to send traffic to either one or more destination CIDR IP address ranges, or to one or more destination security groups in the same VPC.

Each rule consists of the protocol (e.g., TCP), plus either a CIDR range, or a source group (for ingress rules) or destination group (for egress rules). For TCP and UDP, you must also specify the destination port or port ranges. You can specify -1 to mean all ports (i.e., port range 0-65535). For ICMP, you must also specify the ICMP type and code. You can use -1 for the type or code to mean all types or all codes.

Permission changes are propagated to instances within the security group as quickly as possible. However, a small delay might occur.



Important

For EC2 security groups: You can have up to 100 rules per group.

For VPC security groups: You can have up to 50 rules total per group (covering both ingress and egress).

The short version of this command is ec2auth.

Syntax

```
ec2-authorize group [--egress] [-P protocol] (-p port_range | -t icmp_type_code)
[-u source_or_dest_group_owner ...] [-o source_or_dest_group ...] [-s
source_or_dest_cidr ...]
```

Options

Name	Description	Required
group	For EC2 groups: Name or ID of the security group to modify. For VPC groups: ID of the security group to modify (e.g., sg-1a2b3c4d). The group must belong to your AWS account. Type: String Default: None Example: websrv	Yes
egress	Optional flag applicable only to VPC security groups. The flag designates the rule as an egress rule (i.e., controls traffic leaving the VPC security group). Default: If this is not specified, the rule applies to ingress traffic for the specified security group.	No
-P,protocol protocol	IP protocol name or number (go to Protocol Numbers). EC2 security groups can have rules only for TCP, UDP, and ICMP, whereas VPC security groups can have rules assigned to any protocol number. When you call ec2-describe-group, the protocol value returned is the number. Exception: For TCP, UDP, and ICMP, the value returned is the name (e.g., tcp, udp, or icmp). Type: String Valid Values for EC2 security groups: tcp udp icmp or the corresponding protocol number (6 17 1). Default for EC2 groups: Defaults to TCP if source CIDR is specified (or implied by default), or all three protocols (TCP, UDP, and ICMP) if source group is specified (to ensure backwards compatibility). Valid Values for VPC groups: tcp udp icmp or any protocol number (go to Protocol Numbers). Use all to specify all protocols. Condition: Required for VPC security groups. Example: -P udp	Conditional
-p port_range	For TCP or UDP, this specifies the range of ports to allow. Type: String Default: None Valid Values: A single integer or a range (min-max). You can specify -1 to mean all ports (i.e., port range 0-65535). Condition: Required if specifying top or udp (or the equivalent number) for the protocol. Example: -p 80-84	Conditional

Amazon Elastic Compute Cloud CLI Reference Options

Name	Description	Required
-t icmp_type_code	For ICMP, this specifies the ICMP type and code. This must be specified in the format type: code where both are integers. You can use -1 for the type or code to mean all types or all codes. Type: String Default: None Condition: Required if specifying icmp (or the equivalent number) for the protocol. Example: -t -1:-1	Conditional
-u, source_or_dest_group _owner	AWS account ID that owns the source security group. If the group is in your own account, set this to your own AWS account ID. Cannot be used when specifying a CIDR IP address. Type: String Default: None Condition: For EC2 security groups only. Required when adding a rule that gives access to one or more source security groups. Example: -u 111122223333	Conditional
-o source_or_dest_group	The source security group (for ingress rules), or destination security group (for egress rules). When adding a rule for a VPC security group, you must specify the group's ID (e.g., sg-9d4e5f6g) instead of its name. Cannot be used when specifying a CIDR IP address with the -s option. Type: String Default: None Condition: Required if giving access to one or more source or destination security groups. Example: -o headoffice	Conditional
-s,cidr source_or_dest_cidr	CIDR range. Cannot be used when specifying a source or destination security group with the -o option. Type: String Default: 0.0.0.0/0 Constraints: Valid CIDR IP address range. Condition: Required if giving access to one or more IP address ranges. Example: -s 205.192.8.45/24	Conditional

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("GROUP", "PERMISSION")
- Group name for EC2 security groups; group ID for VPC security groups
- Type of rule; currently, only ALLOW rules are supported
- · Protocol to allow
- · Start of port range
- · End of port range
- Source (for ingress rules) or destination (for egress rules)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

EC2 security groups: This example grants TCP port 80 access from the 192.0.2.0/24 address range to the EC2 security group called *websrv*.

```
PROMPT> ec2-authorize websrv -P tcp -p 80 -s 192.0.2.0/24

GROUP websrv

PERMISSION websrv ALLOWS tcp 80 80 FROM CIDR 192.0.2.0/24 ingress
```

Example Request

EC2 security groups: This example grants TCP port 80 access from the EC2 source group called OtherAccountGroup (in AWS account 111122223333) to your EC2 security group called websrv.

```
PROMPT> ec2-authorize websrv -P tcp -p 80 -u 111122223333 -o OtherAccountGroup GROUP websrv PERMISSION websrv ALLOWS tcp 80 80 FROM USER 111122223333 GRPNAME OtherAccountGroup ingress
```

Example Request

VPC security groups: This example grants TCP port 80 access from the 192.0.2.0/24 address range to the VPC security group with ID sg-eea7b782.

```
PROMPT> ec2-authorize sg-eea7b782 -P tcp -p 80 -s 192.0.2.0/24

GROUP sg-eea7b782

PERMISSION ALLOWS tcp 80 80 FROM CIDR 192.0.2.0/24 ingress
```

Example Request

VPC security groups: This example grants egress access from the VPC group sg-eea7b782 to the VPC destination group sg-80aebeec on TCP destination port 1433.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-authorize --egress sg-eea7b782 -P tcp -p 1433 -o sg-80aebeec
GROUP sg-eea7b782
PERMISSION ALLOWS tcp 1433 1433 TO USER ID sg-80aebeec egress

- ec2-create-group (p. 70)
- ec2-describe-group (p. 203)
- ec2-revoke (p. 452)
- ec2-delete-group (p. 133)

ec2-bundle-instance

Description

Bundles an Amazon S3-backed Windows instance.



Note

During bundling, only the root store (C:\) is bundled. Data on the ephemeral stores is not preserved. This procedure is not applicable for Linux and UNIX instances or Windows instances that use Amazon EBS volumes as their root devices.

The short version of this command is ec2bundle.

Syntax

ec2-bundle-instance instance_id -b bucket -p prefix -o access_key_id {-c policy
| -s policy_signature |-w owner_secret_access_key} [-x hours] [--location
location] [-B]

Options

Name	Description	Required
instance_id	The ID of the instance to bundle. Type: String Default: None Example: i-5e73d509	Yes
-b,bucket bucket	The bucket in which to store the AMI. You can specify a bucket that you already own or a new bucket that Amazon EC2 creates on your behalf. If you specify a bucket that belongs to someone else, Amazon EC2 returns an error. Type: String Default: None Example: -b myawsbucket	Yes
-p,prefix prefix	Specifies the prefix for the image component names being stored in Amazon S3. Type: String Default: None Example: -p winami	Yes
-o,owner-akid access_key_id	The Access Key ID of the owner of the Amazon S3 bucket. Type: String Default: None Example: -o AKIAIOSFODNN7EXAMPLE	Yes

Amazon Elastic Compute Cloud CLI Reference Options

Name	Description	Required
-c,policy policy	A Base64-encoded Amazon S3 upload policy that gives Amazon EC2 permission to upload items into Amazon S3 on the user's behalf. If you provide this parameter, you must also provide either a policy signature, or your Secret Access Key, so we can create a policy signature for you (the Secret Access Key is not passed to EC2). If you do not provide this parameter, theowner-sak is required, and we generate an upload policy and policy signature for you automatically. For more information about upload policies and how to sign them, go to the sections about policy construction and signatures in the Amazon Simple Storage Service Developer Guide. Type: String Default: None Example: -c upload-policy	Conditional
-s, policy-signature policy_signature	The Base-64 encoded signature for the S3 upload policy. If you provide thepolicy parameter but notpolicy-signature, theowner-sak parameter is required, and we use it to automatically sign the policy. Type: String Default: None Example: -s upload-policy	Conditional
-w,owner-sak owner_secret_access_ key	The AWS Secret Access Key for the owner of the Amazon S3 bucket specified in the -b parameter. This parameter is required in either of these cases: • If you don't provide thepolicy parameter • If you provide thepolicy parameter, but don't provide thepolicy-signature parameter The command line tools client uses the Secret Access Key to sign a policy for you, but does not send the Secret Access Key to EC2. Type: String Default: None Example: -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Conditional
-x,expires hours	The validity period, in hours, for a generated upload policy. Type: String Default: 24 Example:-x 8	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
location bucket_location	Specifies the location of the destination Amazon S3 bucket.	No
	Type: String	
	Default: None	
	Example:location my-bucket-location	
-B, no-bucket-setup	Specifies that no Amazon S3 bucket should be created if one doesn't already exist, and that no attempt should be made to fix incorrect permissions.	No
	Type: Boolean	
	Default: False	
	Example: -B	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- · BUNDLE identifier
- ID of the bundle
- · ID of the instance
- · Bucket name
- Bundle prefix
- · Bundle start time
- · Bundle update time
- State

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example bundles an instance.

PROMPT> ec2-bundle-instance i-12345678 -b myawsbucket -p winami -o AKIAIOSFOD NN7EXAMPLE -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY

BUNDLE bun-cla540a8 i-12345678 myawsbucket winami 2008-09-15T17:15:20+0000 pending

- ec2-cancel-bundle-task (p. 47)
- ec2-describe-bundle-tasks (p. 185)
- ec2-create-image (p. 74)

ec2-cancel-bundle-task

Description

Cancels an Amazon EC2 bundling operation.

The short version of this command is ec2cbun.

Syntax

ec2-cancel-bundle-task bundle_id

Options

Name	Description	Required
bundle_id	The ID of the bundle task to cancel. Type: String Default: None Example: bun-cla432a3	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- · BUNDLE identifier
- ID of the bundle
- · ID of the instance
- Bucket name
- · Cancel status
- Prefix
- · Start time
- Update time
- Status (cancelling)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example cancels the bun-cla322b9 bundle task.

PROMPT> ec2-cancel-bundle-task bun-cla322b9
BUNDLE bun-cla322b9 i-2674d22r myawsbucket winami 2008-09-15T17:15:20+0000 2008-

Amazon Elastic Compute Cloud CLI Reference Related Operations

09-15T17:15:20+0000 cancelling

- ec2-bundle-instance (p. 43)
- ec2-describe-bundle-tasks (p. 185)

ec2-cancel-conversion-task

Description

Cancels an active conversion task. The task can be the import of an instance or volume. The command removes all artifacts of the conversion, including a partially uploaded volume or instance. If the conversion is complete or is in the process of transferring the final disk image, the command fails and returns an exception.

For more information, go to Using the Command Line Tools to Import Your Virtual Machine to Amazon EC2 in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is **ec2cct**.

Syntax

ec2-cancel-conversion-task task_id

Options

Name	Description	Required
task_id	The conversion task ID of the task to cancel.	Yes
	Type: String	
	Default: None	
	Example: import-i-fh95npoc	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description	
Specifies a connection timeout (in seconds). Example:connection-timeout 30	
Specifies a request timeout (in seconds). Example:request-timeout 45	
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
Displays column headers in the output.	
Shows empty columns as (nil).	
Do not display tags for tagged resources.	
Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
Displays Help.	
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns the following information:

• The status (success or failure) of the deletion.

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example deletes the conversion identified by task ID import-i-fh95npoc.

```
PROMPT> ec2-cancel-conversion-task import-i-fh95npoc CONVERSION-TASK import-i-fh95npoc
```

If the task fails, you receive the following error:

Client.DeleteConversionTask Error: Failed to delete conversion task import-i-fh95npoc

- ec2-import-instance (p. 361)
- ec2-import-volume (p. 370)
- ec2-describe-conversion-tasks (p. 189)
- ec2-resume-import (p. 448)
- ec2-delete-disk-image (p. 130)

ec2-cancel-export-task

Description

Cancels an active export task. The command removes all artifacts of the export, including any partially created Amazon S3 objects. If the export task is complete or is in the process of transferring the final disk image, the command fails and returns an error.

The short version of this command is ec2cxt.

Syntax

ec2-cancel-export-task task_id

Options

Name	Description	Required
task_id	The ID of the export task to be canceled. This is the ID returned by ec2-create-instance-export-task. Type: String Default: None Example: export-i-fgelt0i7	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description	
Specifies a connection timeout (in seconds). Example:connection-timeout 30	
Specifies a request timeout (in seconds). Example:request-timeout 45	
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
Displays column headers in the output.	
Shows empty columns as (nil).	
Do not display tags for tagged resources.	
Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
Displays Help.	
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns the following information:

• The status (success or failure) of the cancellation.

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example deletes the export identified by task ID export-i-fgelt0i7.

```
PROMPT> ec2-cancel-export-task export-i-fgelt0i7
EXPORT-TASK export-i-fgelt0i7
```

- ec2-create-instance-export-task (p. 61)
- ec2-describe-export-tasks (p. 200)

ec2-cancel-spot-instance-requests

Description

Cancels one or more Spot Instance requests. Spot Instances are instances that Amazon EC2 starts on your behalf when the maximum price that you specify exceeds the current Spot Price. Amazon EC2 periodically sets the Spot Price based on available Spot Instance capacity and current Spot Instance requests. For more information about Spot Instances, go to Spot Instances in the Amazon Elastic Compute Cloud User Guide.



Important

Canceling a Spot Instance request does not terminate running Spot Instances associated with the request.

The short version of this command is ec2csir.

Syntax

ec2-cancel-spot-instance-requests request_id [request_id...]

Options

Name	Description	Required
request_id	The Spot Instance request ID. Type: String Default: None Example: sir-8456a32b	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
	Example k pk-nk21k1A1G2ECMX11BH3HXV42BEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- SPOTINSTANCEREQUEST identifier
- Spot Instance request ID
- State

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example cancels a Spot Instance request.

PROMPT> ec2-cancel-spot-instance-requests sir-98c16c03 sir-c1920c03

SPOTINSTANCEREQUEST sir-98c16c03 cancelled

SPOTINSTANCEREQUEST sir-c1920c03 cancelled

- ec2-describe-spot-instance-requests (p. 289)
- ec2-request-spot-instances (p. 430)
- ec2-describe-spot-price-history (p. 295)

ec2-confirm-product-instance

Description

Verifies whether a product code is associated with an instance. This can only be executed by the owner of the product code and is useful when a product code owner wants to verify whether an EC2 user's instance is eligible for support.

The short version of this command is **ec2cpi**.

Syntax

ec2-confirm-product-instance product_code -i instance_id

Options

Name	Description	Required
product_code	The product code to confirm. This must be an Amazon DevPay product code that you own. Type: String Default: None Example: 774F4FF8	Yes
-i instance_id	The instance to confirm. Type: String Default: None Example: -i i-10a64379	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Product code
- Instance ID
- Boolean value indicating if the product code is attached to the instance
- The instance owner's account ID (if the product code is attached)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the confirms the product code is associated with the instance.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-confirm-product-instance 774F4FF8 -i i-10a64379

774F4FF8 i-10a64379 true 111122223333

- ec2-describe-instances (p. 222)
- ec2-run-instances (p. 457)

ec2-create-instance-export-task

Description

Exports a running or stopped instance to an Amazon S3 bucket.

The short version of this command is ec2addixt.

Syntax

ec2-create-instance-export-task instance_id -e target_environment -f
disk_image_format [-c container_format] -b S3_bucket [-p S3_prefix] [-d
description]

Options

Name	Description	Required
instance_id	The ID of the instance to export.	Yes
-e,target-environment target_environment	VMware target supports VMware 4 and 5. Citrix target supports Xen 6. Type: String Valid values: VMware Citrix	Yes
-f,disk-image-format disk_image_format	The disk image file format used to represent the exported disk. Type: String Valid values: VMDK VHD Default: -e = VMware, then -f = VMDK; otherwise VHD	No
-c,container-format container_format	The container format used to combine disk images with metadata (such as OVF). If absent, only the disk image will be exported. Type: String Valid values: OVA Default: if -e = VMware, then -c = OVA, otherwise empty	No
-b,bucket S3_bucket	Name of the destination Amazon S3 bucket where the file will be exported. The destination bucket must grant WRITE and READ_ACL permissions to the vm-import-export@amazon.com AWS account. Type: String	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-p,prefix S3_prefix	Prefix for the S3 key (object name) used for the exported file. Maximum length is 1000 bytes of UTF-8 character encoding. The final key is composed from this prefix (if supplied), the export-task-id, and other relevant parameters. Type: String Example: my-export-, incoming/vm-export/	No
-d,description description	A free-form comment that is returned verbatim during subsequent calls to ec2-describe-export-tasks. Maximum length is 255 bytes. Type: String	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
	Example. 6 Heeps*//ee2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2.
ECZ-PRIVALE-KEI	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· The export task ID.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a task to export an instance.

```
PROMPT> ec2-create-instance-export-task i-38e485d8 -e vmware -f vmdk -c ova -b myexportbucketEXPORTTASK export-i-fgelt0i7 active i-38e485d8 vmware vmdk myexportbucket export-i-fgelt0i7.vmdk
```

- ec2-cancel-export-task (p. 53)
- ec2-describe-export-tasks (p. 200)

ec2-create-customer-gateway

Description

Provides information to AWS about your VPN customer gateway device. The customer gateway is the appliance at your end of the VPN connection (compared to the virtual private gateway, which is the device at the AWS side of the VPN connection)

You must provide the Internet-routable IP address of the customer gateway's external interface. The IP address must be static and can't be behind a device performing network address translation (NAT).

You must also provide the device's Border Gateway Protocol (BGP) Autonomous System Number (ASN). You can use an existing ASN assigned to your network. If you don't have an ASN already, you can use a private ASN (in the 64512 - 65534 range).



Note

Amazon EC2 supports all 2-byte ASN numbers in the range of 1 - 65534, with the exception of 7224, which is reserved in US East, and 9059, which is reserved in EU West.

For more information about ASNs, go to the Wikipedia article.

For more information about Amazon Virtual Private Cloud and VPN customer gateways, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2addcgw.

Syntax

ec2-create-customer-gateway -t type -i ip_address -b bgp_asn

Options

Name	Description	Required
-t type	The type of VPN connection this customer gateway supports. Type: String Default: None Valid Values: ipsec.1 Example: -t ipsec.1	Yes
-i ip_address	The Internet-routable IP address for the customer gateway's outside interface. The address must be static. Type: String Default: None Example: -i 12.1.2.3	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-b bgp_asn	The customer gateway's Border Gateway Protocol (BGP) Autonomous System Number (ASN).	Yes
	Type: Integer	
	Default: None	
	Example: -b 65534	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("CUSTOMERGATEWAY")
- Customer gateway ID, which uniquely identifies the customer gateway
- Current state of the customer gateway (pending, available, deleting, deleted)
- Type of VPN connection the customer gateway supports
- The Internet-routable IP address for the customer gateway's outside interface
- The customer gateway's BGP ASN

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example passes information to AWS about the customer gateway with IP address 12.1.2.3 and ASN 65534.

```
PROMPT> ec2-create-customer-gateway -t ipsec.1 -i 12.1.2.3 -b
65534 CUSTOMERGATEWAY cgw-b4dc3961 pending ipsec.1 12.1.2.3 65534
```

- ec2-describe-customer-gateways (p. 192)
- ec2-delete-customer-gateway (p. 126)

ec2-create-dhcp-options

Description

Creates a set of DHCP options for your VPC. After creating the new set, you must then associate it with the VPC, causing all existing and new instances that you launch in the VPC to use the new set of DHCP options. The following table lists the individual DHCP options you can specify. For more information about the options, go to RFC 2132.

DHCP Option Name	Description
domain-name	A domain name of your choice (e.g., example.com).
domain-name-servers	The IP address of a domain name server. You can specify up to four addresses.
ntp-servers	The IP address of a Network Time Protocol (NTP) server. You can specify up to four addresses.
netbios-name-servers	The IP address of a NetBIOS name server. You can specify up to four addresses.
netbios-node-type	Value indicating the NetBIOS node type (1, 2, 4, or 8). For more information about the values, go to RFC 2132. We recommend you only use 2 at this time (broadcast and multicast are currently not supported).



Important

Your VPC automatically starts out with a set of DHCP options that includes only a DNS server that we provide (AmazonProvidedDNS). If you create a new set of options, and if your VPC has an Internet gateway, make sure to set the <code>domain-name-servers</code> option either to AmazonProvidedDNS or to a domain name server of your choice.

For more information about Amazon Virtual Private Cloud and DHCP options, go to Using DHCP Options in Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2adddopt.

Syntax

ec2-create-dhcp-options name=value[,value...] [name=value[,value...] ...]

Options

Name	Description	Required
name=value,value	The DHCP option (including the option's name and its value). You can specify more than one option in the request, and more than one value per option. If you're using the command line tools on a Windows system, you might need to use quotation marks (i.e., "name=value,value"). Type: String Default: None Example: domain-name-servers=10.2.5.1,10.2.5.2	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
	Lxampleregion eu-west-i
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- Output type identifier ("DHCPOPTIONS")
- The DHCP options ID, which uniquely identifies this set of options
- Output type identifier ("OPTION")
- · Each option and corresponding value in the set of options

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a new set of DHCP options with a domain name mydomain.com and two DNS servers (10.2.5.1 and 10.2.5.2).

```
PROMPT> ec2-create-dhcp-options domain-name=mydomain.com domain-name-serv ers=10.2.5.1,10.2.5.2

DHCPOPTIONS dopt-7a8b9c2d

OPTION domain-name mydomain.com

OPTION domain-name-servers 10.2.5.1,10.2.5.2
```

- ec2-associate-dhcp-options (p. 19)
- ec2-describe-dhcp-options (p. 196)
- ec2-delete-dhcp-options (p. 128)

ec2-create-group

Description

Creates a new security group. You can create either an EC2 security group (which works only with EC2), or a VPC security group (which works only with Amazon Virtual Private Cloud). The two types of groups have different capabilities. For information about VPC security groups and how the two types of groups differ, go to Security Groups in the Amazon Virtual Private Cloud User Guide. For information about EC2 security groups, go to Using Security Groups in the Amazon Elastic Compute Cloud User Guide.

When you create a security group, you give it a friendly name of your choice. You can have an EC2 security group with the same name as a VPC security group (each group has a unique security group ID separate from the name). Two EC2 groups can't have the same name, and two VPC groups can't have the same name.

If you don't specify a security group when you launch an instance, the instance is launched into the default security group. This group (and only this group) includes a default rule that gives the instances in the group unrestricted network access to each other. You have a default EC2 security group for instances you launch with EC2 (i.e., outside a VPC), and a default VPC security group for instances you launch in your VPC.

You can add or remove rules from your security groups (i.e., authorize or revoke permissions) using ec2-authorize, and ec2-revoke commands.

For more information about EC2 security groups, go to Security Groups in the Amazon Elastic Compute Cloud User Guide.



Important

For EC2 security groups: You can have up to 500 groups. For VPC security groups: You can have up to 50 groups per VPC.

The short version of this command is ec2addgrp.

Syntax

ec2-create-group group_name -d description [-c vpc_id]

Options

Name	Description	Required
group_name	Name of the security group. Type: String Default: None Constraints: Accepts alphanumeric characters, spaces, dashes, and underscores. Example: websrv	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-d,description description	Description of the group. This is informational only. Type: String Default: None Constraints: Accepts alphanumeric characters, spaces, dashes, and underscores. Example: -d "Web servers"	Yes
-c,vpc vpc_id	ID of the VPC. Type: String Default: None Condition: Required for VPC security groups Example: -c vpc-1a2b3c4d	Conditional

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on
	the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- "GROUP" identifier
- · AWS-assigned ID for the group
- · Group name
- · Group description

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates the websrv security group.

```
PROMPT> ec2-create-group websrv -d 'Web Servers'
GROUP sg-4def22a5 websrv Web Servers
```

Example Request

This example creates the ${\tt MyVPCGroup}$ security group in the VPC with ID vpc-3325caf2.

```
PROMPT> ec2-create-group MyVPCGroup -d 'Group in my VPC' -c vpc-3325caf2
GROUP sg-0a42d66a MyVPCGroup Group in my VPC
```

- ec2-run-instances (p. 457)
- ec2-describe-group (p. 203)
- ec2-authorize (p. 37)

Amazon Elastic Compute Cloud CLI Reference Related Operations

- ec2-revoke (p. 452)
- ec2-delete-group (p. 133)

ec2-create-image

Description

Creates an AMI that uses an Amazon EBS root device from a "running" or "stopped" instance. For more information about Amazon EBS-backed AMIs, go to Using Amazon EBS-Backed AMIs and Instances.



Note

If you customized your instance with ephemeral storage devices or additional EBS volumes besides the root device, the new AMI contains block device mapping information for those storage devices and volumes. When you then launch an instance from your new AMI, the instance automatically launches with the additional devices and volumes.

The short version of this command is ec2cim.

Syntax

ec2-create-image instance_id --name name [--description description]
[--no-reboot]

Options

Name	Description	Required
instance_id	The ID of the instance. Type: String Default: None	Yes
	Example: i-10a64379	
-n,name <i>name</i>	A name for the new image you're creating. Type: String Default: None Constraints: 3-128 alphanumeric characters, parenthesis (()), commas (,), slashes (/), dashes (-), or underscores(_). Allows spaces if the name is enclosed in quotation marks. Example: -n "Standard Web Server"	Yes
-d,description description	A description of the new image. Type: String Default: None Constraints: Up to 255 characters Example: -d Fedora_v11	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
no-reboot	By default this property is set to false, which means Amazon EC2 attempts to cleanly shut down the instance before image creation and reboots the instance afterwards. When set to true, Amazon EC2 does not shut down the instance before creating the image. When this option is used, file system integrity on the created image cannot be guaranteed. Type: Boolean Default: False Example:no-reboot	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.	
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- IMAGE identifier
- Unique ID of the newly registered machine image

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates an AMI from the i-10a64379 instance.

```
PROMPT> ec2-create-image i-10a64379 --name "Standard Web Server" --description

"Standard web server AMI"

IMAGE ami-4fa54026
```

- ec2-run-instances (p. 457)
- ec2-describe-instances (p. 222)
- ec2-terminate-instances (p. 472)

ec2-create-internet-gateway

Description

Creates a new Internet gateway for use with a VPC. After creating the Internet gateway, you then attach it to a VPC using ec2-attach-internet-gateway. For more information about your VPC and Internet gateway, go to the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2addigw.

Syntax

ec2-create-internet-gateway

Options

This command does not have any options.

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- Output type identifier ("INTERNETGATEWAY")
- ID of the Internet gateway

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates an Internet gateway.

```
PROMPT> ec2-create-internet-gateway INTERNETGATEWAY igw-c0a643a9
```

- ec2-delete-internet-gateway (p. 136)
- ec2-attach-internet-gateway (p. 25)
- ec2-detach-internet-gateway (p. 334)
- ec2-describe-internet-gateways (p. 236)

ec2-create-keypair

Description

Creates a new 2048-bit RSA key pair with the specified name. The public key is stored by Amazon EC2 and the private key is displayed on the console. The private key is returned as an unencrypted PEM encoded PKCS#8 private key. If a key with the specified name already exists, Amazon EC2 returns an error



Tip

The key pair returned to you works only in the Region you're using when you create the key pair. If you'd like to create a key pair that works in all Regions, see ec2-import-keypair (p. 367).

The short version of this command is ec2addkey.

Syntax

ec2-create-keypair key

Options

Name	Description	Required
key	A unique name for the key pair. Type: String Default: None Constraints: Accepts alphanumeric characters, spaces, dashes, and underscores. Example: mysecretkey	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- · KEYPAIR identifier
- Key pair name
- Private key fingerprint
- Private key. This value is displayed on a new line

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a key pair named gsg-keypair.

```
PROMPT> ec2-create-keypair gsg-keypair
KEYPAIR
---- BEGIN RSA PRIVATE KEY ----
MIICiTCCAfICCQD6m7oRw0uX0jANBqkqhkiG9w0BAQUFADCBiDELMAkGA1UEBhMC
VVMxCzAJBgNVBAgTAldBMRAwDgYDVQQHEwdTZWF0dGxlMQ8wDQYDVQQKEwZBbWF6
b24xFDASBqNVBAsTC01BTSBDb25zb2x1MRIwEAYDVQQDEw1UZXN0Q21sYWMxHzAd
BgkqhkiG9w0BCQEWEG5vb25lQGFtYXpvbi5jb20wHhcNMTEwNDI1MjA0NTIxWhcN
MTIwNDI0MjA0NTIxWjCBiDELMAkGA1UEBhMCVVMxCzAJBgNVBAgTAldBMRAwDgYD
VQQHEwdTZWF0dGx1MQ8wDQYDVQQKEwZBbWF6b24xFDASBqNVBAsTC01BTSBDb25z
b2xlMRIwEAYDVQQDEw1UZXN0Q21sYWMxHzAdBgkqhkiG9w0BCQEWEG5vb251QGFt
YXpvbi5jb20wqZ8wDQYJKoZIhvcNAQEBBQADqY0AMIGJAoGBAMaK0dn+a4GmWIWJ
21uUSfwfEvySWtC2XADZ4nB+BLYgVIk60CpiwsZ3G93vUEIO3IyNoH/f0wYK8m9T
rDHudUZg3qX4waLG5M43q7Wgc/MbQITxOUSQv7c7ugFFDzQGBzZswY6786m86gpE
Ibb3OhjZnzcvQAaRHhdlQWIMm2nrAqMBAAEwDQYJKoZIhvcNAQEFBQADqYEAtCu4
\verb|nUhVVxYUntneD9+h8Mg9q6q+auNKyExzyLwaxlAoo7TJHidbtS4J5iNmZgXL0Fkb| \\
FFBjvSfpJIlJ00zbhNYS5f6GuoEDmFJl0ZxBHjJnyp3780D8uTs7fLvjx79LjSTb
NYiytVbZPQUQ5Yaxu2jXnimvw3rrszlaEXAMPLE=
----END RSA PRIVATE KEY----
```

- ec2-run-instances (p. 457)
- ec2-describe-keypairs (p. 240)
- ec2-delete-keypair (p. 139)

ec2-create-network-acl

Description

Creates a new network ACL in a VPC. Network ACLs provide an optional layer of security (on top of security groups) for the instances in your VPC. For more information about network ACLs, go to Network ACLs in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2addnacl.

Syntax

ec2-create-network-acl vpc_id

Options

Name	Description	Required
vpc_id	The ID of the VPC where the network ACL will be created. Type: String Default: None Example: vpc-9ea045f7	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description	
Specifies a connection timeout (in seconds). Example:connection-timeout 30	
Specifies a request timeout (in seconds). Example:request-timeout 45	
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
Displays column headers in the output.	
Shows empty columns as (nil).	
Do not display tags for tagged resources.	
Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
Displays Help.	
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- Output type identifier ("NETWORKACL")
- The ACL ID
- The VPC ID the route table has been created in
- ENTRY elements created by default

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a new network ACL in the VPC with ID vpc-11ad4878. Notice that the response includes a default entry for egress, and another for ingress, each with a very high rule number (32767). These are the last entries that Amazon VPC processes to decide whether traffic is allowed into our out of an associated subnet. If the traffic doesn't match any rules with a lower rule number, then these default entries ultimately deny the traffic. The -1 means all protocols and ports.

```
PROMPT> ec2-create-network-acl vpc-11ad4878
NETWORKACL acl-5fb85d36 vpc-11ad4878
```

Amazon Elastic Compute Cloud CLI Reference Related Operations

```
ENTRY egress 32767 deny 0.0.0.0/0 all ENTRY ingress 32767 deny 0.0.0.0/0 all
```

- ec2-delete-network-acl (p. 141)
- ec2-describe-network-acls (p. 243)
- ec2-replace-network-acl-association (p. 413)

ec2-create-network-acl-entry

Description

Creates an entry (i.e., rule) in a network ACL with a rule number you specify. Each network ACL has a set of numbered ingress rules and a separate set of numbered egress rules. When determining whether a packet should be allowed in or out of a subnet, Amazon VPC processes the entries in the ACL according to the rule numbers, in ascending order. Each network ACL has a set of ingress rules and a separate set of egress rules.



Important

We recommend that you leave room between the rule numbers (e.g., 100, 110, 120, etc.), and not number them one right after the other (e.g., 101, 102, 103, etc.). This allows you to easily add a new rule between existing ones without having to renumber the rules.

After you add an entry, you can't modify it; you must either replace it or create a new entry and delete the old one.

For more information about network ACLs, go to Network ACLs in the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2addnae.

Syntax

```
ec2-create-network-acl-entry acl_id -n rule_number [--egress] -P protocol -r
cidr [-p port_range] [-t icmp_type_code] { --allow | --deny }
```

Options

Name	Description	Required
acl_id	ID of the ACL where the entry will be created. Type: String Default: None Example: acl-5fb85d36	Yes
-n,rule-number rule_number	Rule number to assign to the entry (e.g., 100). ACL entries are processed in ascending order by rule number. Type: Number Default: None Constraints: Positive integer from 1 to 32766 Example: -n 100	Yes
egress	Optional flag to designate the rule be applied to traffic leaving the subnet. Default: If not specified, rule applies to ingress traffic into the subnet.	No

Amazon Elastic Compute Cloud CLI Reference Options

Name	Description	Required
-P,protocol protocol	IP protocol. You can specify all or -1 to mean all protocols. Type: String Valid Values: all -1 tcp udp icmp or any protocol number (for a list, go to Protocol Numbers). Example: -P 6	Yes
-r,cidr cidr	The CIDR range to allow or deny, in CIDR notation. Type: String Default: None Example: -r 172.16.0.0/24	Yes
-p,port-range port_range	For the TCP or UDP protocols, this specifies the range of ports to allow. Type: String Default: None Valid Values: A single integer or a range (min-max). You can specify -1 to mean all ports (i.e. port range 0-65535). Condition: Required if specifying top or udp (or the equivalent number) for the protocol. Example: -p 80-84	Conditional
-t, icmp-type-code icmp_type_code	For the ICMP protocol, this specifies the ICMP type and code using format type:code, where both are integers. You can use -1 for the type or code to mean all types or all codes Type: String Default: None Condition: Required if specifying icmp (or the equivalent number) for the protocol. Example: -t -1:-1	Conditional
allow	Specifies that any traffic matching the rule is allowed. Condition: Eitherallow ordeny must be specified, but not both.	Conditional
deny	Specifies that any traffic matching the rule is denied. Condition: Eitherallow ordeny must be specified, but not both.	Conditional

Option	Description	
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.	
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.	
	Example:region eu-west-1	
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com	
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.	
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates an entry with rule number 100 in the network ACL with ID acl-2cb85d45. The rule allows ingress traffic from anywhere (0.0.0.0/0) on UDP port 53 into the subnet.

```
PROMPT> ec2-create-network-acl-entry acl-2cb85d45 -n 100 -r 0.0.0.0/0 -P udp - p 53 --allow
ENTRY ingress 100 allow 0.0.0.0/0 udp 53
53
```

- ec2-delete-network-acl-entry (p. 143)
- ec2-replace-network-acl-entry (p. 416)
- ec2-describe-network-acls (p. 243)

ec2-create-network-interface

Description

Creates a network interface in the subnet that you specify.

The short version of this command is ec2addnic.

Syntax

ec2-create-network-interface -d, --description DESCRIPTION [--private-ip-address IP_ADDRESS] [-g, --group GROUP] SUBNET

Options

Name	Description	Required
-d,description DESCRIPTION	Set the description of the network interface. Type: String Default: None Example: -d "My ENI"	No
private-ip-address IP_ADDRESS	Specifies the private IP address of the network interface. If an IP address is not specified, one will be auto-assigned to the interface. Type: String Default: None Example:private-ip-address 10.0.2.17	No
-g,group GROUP	Adds a security group to the network interface. It can be used multiple times to add multiple groups. Type: String Default: None. If no security group is specified, the interface will become a member of the default security group. Example: -g sg-bba1bcd7 –g sg-6d495601	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com	
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns the ENI ID for the network interface that was created, along with the subnet ID, VPC ID, Availability Zone, and security group membership.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a network interface address in the specified subnet.

```
PROMPT> ec2-create-network-interface -d "My ENI" -g sg-bbalbcd7 --private-ip-address 10.0.2.17 subnet-fd04ff94

NETWORKINTERFACE eni-3b9f6552 My ENI subnet-fd04ff94 vpc-e604ff8f us-east-lb 089818748305 false pending 02:1a:80:41:52:9c 10.0.2.17 true GROUP sg-bbalbcd7 default
```

- ec2-delete-network-interface (p. 146)
- ec2-describe-network-interfaces (p. 248)
- ec2-describe-network-interface-attribute (p. 254)
- ec2-attach-network-interface (p. 28)
- ec2-detach-network-interface (p. 337)
- ec2-modify-network-interface-attribute (p. 387)
- ec2-reset-network-interface-attribute (p. 443)

ec2-create-placement-group

Description

Creates a placement group that you launch cluster instances into. You must give the group a name unique within the scope of your account. For more information about placement groups and cluster instances, go to Using Cluster Instances in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2addpgrp.

Syntax

ec2-create-placement-group placement-group -s strategy

Options

Name	Description	Required
placement-group	A name for the placement group. Type: String Default: None Example: XYZ-cluster	Yes
-s strategy	The placement strategy. Type: String Valid Values: cluster Default: cluster Example: -s cluster	No

Option	Description
region REGION	Overrides the Region specified in the $EC2_URL$ environment variable and the URL specified by the $-U$ option.
	Default: The ${\tt EC2_URL}$ environment variable, or ${\tt us-east-1}$ if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	\it{URL} is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- PLACEMENTGROUP identifier
- Placement group name
- Placement group strategy

Examples

Example Request

This example creates the XYZ-cluster group.

PROMPT> ec2-create-placement-group XYZ-cluster -s cluster PLACEMENTGROUP XYZ-cluster cluster

Amazon Elastic Compute Cloud CLI Reference Examples

- ec2-delete-placement-group (p. 148)
- ec2-describe-placement-groups (p. 257)

ec2-create-route

Description

Creates a new route in a route table within a VPC. The route's target can be either a gateway attached to the VPC or a NAT instance in the VPC.

When determining how to route traffic, we use the route with the most specific match. For example, let's say the traffic is destined for 192.0.2.3, and the route table includes the following two routes:

- 192.0.2.0/24 (goes to some target A)
- 192.0.2.0/28 (goes to some target B)

Both routes apply to the traffic destined for 192.0.2.3. However, the second route in the list covers a smaller number of IP addresses and is therefore more specific, so we use that route to determine where to target the traffic.

For more information about route tables, go to Route Tables in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2addrt.

Syntax

ec2-create-route route_table_id -r cidr {-g gateway_id | -i instance_id | -n, --network-interface NETWORKINTERFACE}

Options

Name	Description	Required
route_table_id	The ID of the route table where the route will be added. Type: String Default: None Example: rtb-5da34634	Yes
-r,cidr cidr	The CIDR address block used for the destination match. Routing decisions are based on the most specific match. Type: String Default: None Example: -r 0.0.0.0/0	Yes
-g,gateway gateway_id	The ID of a gateway in your VPC. Type: String Default: None Condition: You must provide one of the following: a gateway ID, instance ID, or a network interface ID. Example: -g igw-68a34601	Conditional

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-i,instance instance_id	The ID of a NAT instance in your VPC. Type: String Default: None Condition: You must provide one of the following: a gateway ID, instance ID, or a network interface ID. Example: -i i-a7c871e3	Conditional
-n,network-interface NETWORKINTERFACE	The network interface associated with the route. Type: String Default: None Condition: You must provide one of the following: a gateway ID, instance ID, or a network interface. Example: -n eni-5b729933	Conditional

Option	Description	
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.	
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.	
	Example:region eu-west-1	
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.	
	Default: The EC2_URL environment variable, or	
	https://ec2.amazonaws.com if the environment variable is not set.	
	Example: -U https://ec2.amazonaws.com	
-K,private-key	The private key to use when constructing requests to Amazon EC2.	
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.	
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.	
	Default: The value of the EC2_CERT environment variable.	
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout	Specifies a connection timeout (in seconds).	
TIMEOUT	Example:connection-timeout 30	
request-timeout	Specifies a request timeout (in seconds).	
TIMEOUT	Example:request-timeout 45	

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a route in the route table with ID rtb-e4ad488d. The route matches all traffic (0.0.0.0/0) and routes it to the Internet gateway with ID igw-eaad4883.

```
PROMPT> ec2-create-route rtb-e4ad488d -r 0.0.0.0/0 -g igw-eaad4883

ROUTE igw-eaad4883 0.0.0.0/0
```

- ec2-delete-route (p. 150)
- ec2-describe-route-tables (p. 274)
- ec2-replace-route (p. 420)

ec2-create-route-table

Description

Creates a new route table within a VPC. After you create a new route table, you can add routes and associate the table with a subnet. For more information about route tables, go to Route Tables in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2addrtb.

Syntax

ec2-create-route-table vpc_id

Options

Name	Description	Required
vpc_id	The ID of the VPC where the route table will be created. Type: String Default: None Example: vpc-9ea045f7	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description	
Specifies a connection timeout (in seconds). Example:connection-timeout 30	
Specifies a request timeout (in seconds). Example:request-timeout 45	
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
Displays column headers in the output.	
Shows empty columns as (nil).	
Do not display tags for tagged resources.	
Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
Displays Help.	
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- Output type identifier ("ROUTETABLE")
- The route table ID
- The VPC ID
- Information about the local route included in every new route table

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a new route table within the VPC with the ID vpc-9ea045f7.

PROMPT> ec2-create-route-table vpc-9ea045f7
ROUTETABLE rtb-6aa34603 vpc-9ea045f7
ROUTE local active 172.16.0.0/16

- ec2-associate-route-table (p. 22)
- ec2-disassociate-route-table (p. 348)
- ec2-delete-route-table (p. 153)
- ec2-describe-route-tables (p. 274)
- ec2-replace-route-table-association (p. 423)
- ec2-create-route (p. 95)

ec2-create-snapshot

Description

Creates a snapshot of an Amazon EBS volume and stores it in Amazon S3. You can use snapshots for backups, to make identical copies of instance devices, and to save data before shutting down an instance. For more information about Amazon EBS, go to the Amazon Elastic BLock Store.

When a snapshot is created, any AWS Marketplace product codes from the volume will be propagated to the snapshot.

When taking a snapshot of a file system, we recommend unmounting it first. This ensures the file system metadata is in a consistent state, that the 'mounted indicator' is cleared, and that all applications using that file system are stopped and in a consistent state. Some file systems, such as xfs, can freeze and unfreeze activity so a snapshot can be made without unmounting.

For Linux/UNIX, enter the following command from the command line to unmount the volume.

```
umount -d device_name
```

For example:

```
umount -d /dev/sdh
```

For Windows, open Disk Management, right-click the volume to unmount, and select Change Drive Letter and Path. Then, select the mount point to remove and click Remove.

The short version of this command is ec2addsnap.

Syntax

ec2-create-snapshot volume id [-d description]

Options

Name	Description	Required
volume_id	The ID of the Amazon EBS volume of which to take a snapshot. Type: String Default: None Example: vol-4d826724	Yes
-d,description description	Description of the Amazon EBS snapshot. Type: String Default: None Constraints: Up to 255 characters Example: -d "Daily backup"	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- SNAPSHOT identifier
- ID of the snapshot
- · ID of the volume
- Snapshot state (e.g., pending, completed, error)
- · Time stamp when snapshot initiated
- · ID of the owner
- · Size of the volume
- Description

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a snapshot of volume vol-4d826724.

PROMPT> ec2-create-snapshot vol-4d826724 --description "Daily Backup" SNAPSHOT snap-c070c5a9 vol-9539dcfc pending 2009-09-16T14:31:29+0000 111122223333 1 Daily Backup

- ec2-delete-snapshot (p. 155)
- ec2-describe-snapshots (p. 282)

ec2-create-spot-datafeed-subscription

Description

Creates the data feed for Spot Instances, enabling you to view Spot Instance usage logs. You can create one data feed per account. For more information about Spot Instances, go to Spot Instances in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2addsds.

Syntax

ec2-create-spot-datafeed-subscription --bucket bucket [--prefix prefix]

Options

Name	Description	Required
-b,bucket bucket	The Amazon S3 bucket in which to store the Spot Instance datafeed. Type: String Default: None Constraints: Must be a valid bucket associated with your account. Example: -b myawsbucket	Yes
-p,prefix bucket	Prefix that is prepended to datafeed files. Type: String Default: None Example: -p spotdata_	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- SPOTDATAFEEDSUBSCRIPTION identifier
- Owner's AWS account ID
- Bucket name
- Prefix
- State (Active, Inactive)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates the data feed for the account.

PROMPT> ec2-create-spot-datafeed-subscription -b myawsbucket -p spotdata_ SPOTDATAFEEDSUBSCRIPTION 111122223333 myawsbucket spotdata_ Active

- ec2-delete-spot-datafeed-subscription (p. 158)
- ec2-describe-spot-datafeed-subscription (p. 287)

ec2-create-subnet

Description

Creates a subnet in an existing VPC. You can create up to 20 subnets in a VPC. If you add more than one subnet to a VPC, they're set up in a star topology with a logical router in the middle. If you feel you need more than 20 subnets, you can request more by going to http://aws.amazon.com/contact-us/vpc-request/.

When you create each subnet, you provide the VPC ID and the CIDR block you want for the subnet. Once you create a subnet, you can't change its CIDR block. The subnet's CIDR block can be the same as the VPC's CIDR block (assuming you want only a single subnet in the VPC), or a subset of the VPC's CIDR block. If you create more than one subnet in a VPC, the subnets' CIDR blocks must not overlap. The smallest subnet (and VPC) you can create uses a /28 netmask (16 IP addresses), and the largest uses a /16 netmask (65,536 IP addresses).



Important

AWS reserves both the first four and the last IP address in each subnet's CIDR block. They're not available for use.



Important

If you launch an instance in a VPC using an Amazon EBS-backed AMI, the IP address doesn't change if you stop and restart the instance (unlike a similar instance launched outside a VPC, which gets a new IP address when restarted). It's therefore possible to have a subnet with no running instances (they're all stopped), but no remaining IP addresses available. For more information about Amazon EBS-backed AMIs, go to AMI Basics in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is ec2addsubnet.

Syntax

ec2-create-subnet -c vpc_id -i cidr [-z zone]

Options

Name	Description	Required
-c vpc_id	The ID of the VPC where you want to create the subnet. Type: String Default: None Example: -c vpc-1a2b3c4d	Yes
-i cidr	The CIDR block you want the subnet to cover. Type: String Default: None Example: -i 10.0.1.0/24	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-z zone	The Availability Zone you want the subnet in. Type: String Default: AWS selects a zone for you (recommended). Example: -z us-east-1a	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>

Output

The command returns a table that contains the following information:

- Output type identifier ("SUBNET")
- Subnet ID, which uniquely identifies the subnet
- The current state of the subnet (pending or available)
- ID of the VPC the subnet is in
- · CIDR block assigned to the subnet
- Number of IP addresses in the subnet that are available
- · Availability Zone the subnet is in

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a subnet with CIDR block 10.0.1.0/24 in the VPC with ID vpc-1a2b3c4d.

```
PROMPT> ec2-create-subnet -c vpc-la2b3c4d -i 10.0.1.0/24
SUBNET subnet-9d4a7b6c pending vpc-la2b3c4d 10.0.1.0/24 250 us-east-la
```

- ec2-describe-subnets (p. 300)
- ec2-delete-subnet (p. 160)

ec2-create-tags

Description

Adds or overwrites one or more tags for the specified resource or resources. Each resource can have a maximum of 10 tags. Each tag consists of a key and optional value. Tag keys must be unique per resource.

For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is ec2addtag.

Syntax

```
ec2-create-tags resource_id [resource_id ...] --tag key[=value] [--tag
key[=value] ...]
```

Options

Name	Description	Required
resource_id	AWS-assigned ID of the resource you want to tag. You can specify multiple resources to assign the tags to. Type: String Default: None Example: ami-1a2b3c4d	Yes
tag key Or key=value	Key and optional value of the tag, separated by an equals sign (=). If you don't include a value, we set the value to an empty string. If you're using the command line tools on a Windows system, you might need to use quotation marks (i.e., "key=value").	Yes
	Type: String	
	Default: None	
	Constraints: Maximum tag key length is 128 characters. Maximum tag value length is 256 characters. Tag keys and values are case sensitive and accept Unicode characters.	
	Example:tag stack=Production	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- TAG identifier
- Resource type (e.g., instance, image, etc.)
- Resource ID
- Tag key
- Tag value

Amazon Elastic Compute Cloud CLI Reference Examples

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example adds (or overwrites) two tags for an AMI and an instance. One of the tags is just a key (webserver), with no value. The other consists of a key (stack) and value (Production). We set the value of the *webserver* tag to an empty string.

```
PROMPT> ec2-create-tags ami-la2b3c4d i-7d3e5a2f --tag webserver --tag stack=Production

TAG image ami-la2b3c4d webserver

TAG image ami-la2b3c4d stack Production

TAG instance i-7d3e5a2f webserver

TAG instance i-7d3e5a2f stack Production
```

- ec2-describe-tags (p. 304)
- ec2-delete-tags (p. 162)

ec2-create-volume

Description

Creates a new Amazon EBS volume that any Amazon EC2 instance in the same Availability Zone can attach to. Any AWS Marketplace product codes from the snapshot are propagated to the volume. For more information about Amazon EBS, go to the Amazon Elastic BLock Store.



Note

You must specify an Availability Zone when creating a volume. The volume and the instance to which it attaches must be in the same Availability Zone.

The short version of this command is ec2addvol.

Syntax

```
ec2-create-volume [ --size size | --snapshot snapshot [--size size] ] --availability-zone zone
```

Options

Name	Description	Required
-s,size size	The size of the volume, in GiBs.	Conditional
	Type: String	
	Valid Values: 1-1024	
	Condition: Required if you are not creating a volume from a snapshot.	
	Default: If you're creating a volume from a snapshot and don't specify a size, the default is the snapshot size.	
	Example: -s 80	
snapshot snapshot	The snapshot from which to create the new volume.	Conditional
	Type: String	
	Default: None	
	Condition: Required if you are creating a volume from a snapshot.	
	Example:snapshot snap-78a54011	
-z,	The Availability Zone in which to create the new	Yes
availability-zone	volume.	
zone	Type: String	
	Default: None	
	Example: -z us-east-1a	

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- VOLUME identifier
- ID of the volume
- · Size of the volume, in GiBs
- Snapshot from which the volume was created, if applicable
- · Availability Zone in which the volume was created
- Volume state (e.g., creating, available, in use, deleting, error)
- · Time stamp when volume creation was initiated

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a new 20 GiB volume in Availability Zone us-east-la.

```
PROMPT> ec2-create-volume --size 20 --availability-zone us-east-1a VOLUME vol-4d826724 20 us-east-1a creating 2008-05-07T11:51:50+0000
```

- ec2-delete-volume (p. 165)
- ec2-describe-volumes (p. 308)
- ec2-attach-volume (p. 31)
- ec2-detach-volume (p. 339)
- ec2-describe-availability-zones (p. 182)

ec2-create-vpc

Description

Creates a VPC with the CIDR block you specify. The smallest VPC you can create uses a /28 netmask (16 IP addresses), and the largest uses a /16 netmask (65,536 IP addresses). To help you decide how big to make your VPC, go to Your VPC and Subnets in the *Amazon Virtual Private Cloud User Guide*.

By default, each instance you launch in the VPC has the default DHCP options that includes only a default DNS server that we provide (AmazonProvidedDNS).

For more information about Amazon Virtual Private Cloud and DHCP options, go to Using DHCP Options in Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2addvpc.

Syntax

ec2-create-vpc cidr [tenancy]

Options

Name	Description	Required
cidr	The CIDR block you want the VPC to cover Type: String Default: None Example: 10.0.0.0/16	Yes
tenancy	The supported tenancy of instances launched into the VPC. A value of default means instances can be launched with any tenancy; a value of dedicated means all instances launched into the VPC will be launched as dedicated tenancy instances regardless of the tenancy assigned to the instance at launch. Setting the instance's tenancy attribute to dedicated specifies that your instance will run on single-tenant hardware. Type: String Default: default Valid Values: default dedicated	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPC")
- VPC ID, which uniquely identifies the VPC
- · CIDR block of the VPC
- The current state of the VPC (pending or available)
- ID of DHCP options associated with the VPC (or default if none)
- The allowed tenancy of instances launched into the VPC.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a VPC with CIDR block 10.0.0.0/16.

```
PROMPT> ec2-create-vpc 10.0.0.0/16

VPC vpc-la2b3c4d pending 10.0.0.0/16 default
```

- ec2-describe-vpcs (p. 321)
- ec2-delete-vpc (p. 168)
- ec2-create-dhcp-options (p. 67)
- ec2-associate-dhcp-options (p. 19)

ec2-create-vpn-connection

Description

Creates a new VPN connection between an existing virtual private gateway and customer gateway. The only supported connection type is ipsec.1.

The response includes information that you need to give to your network administrator to configure your customer gateway. The underlying native format of this information is XML; however, with the **ec2-create-vpn-connection** command, you can transform the information into a different format based on the vendor that makes your customer gateway (e.g., Cisco or Juniper). If you use a vendor other than Cisco or Juniper, you can set the <code>--format</code> option to <code>generic</code>, and the information is formatted in a human readable format for your network administrator. If you want to see the native XML, you can specify <code>xml</code> as the value of the <code>--format</code> option. If you want to write your own stylesheet, you can use the <code>--stylesheet</code> option to specify that stylesheet and receive the output in your own format. Whereas the **ec2-create-vpn-connection** command lets you choose a format for the configuration information, the corresponding Amazon VPC API operation (CreateVpnConnection) returns only the native XML.

If you decide to shut down your VPN connection for any reason and then create a new one, you must reconfigure your customer gateway with the new information returned from this call.

For more information about Amazon Virtual Private Cloud and VPN connections, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2addvpn.

Syntax

ec2-create-vpn-connection -t type --customer-gateway customer_gateway_id --vpn-gateway_vpn_gateway_id [{--format format} | {--stylesheet your_stylesheet}]

Options

Name	Description	Required
-t type	The type of VPN connection. Type: String Default: None Valid Values: ipsec.1 Example: -t ipsec.1	Yes
customer-gateway customer_gateway_id	The ID of the customer gateway. Type: String Default: None Example:customer-gateway cgw-b4dc3961	Yes
vpn-gateway vpn_gateway_id	The ID of the virtual private gateway. Type: String Default: None Example:vpn-gateway vgw-8db04f81	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
format format	Causes the response to include customer gateway configuration information, in the format specified by this option. The returned information can be formatted for various devices, including a Cisco device (cisco-ios-isr) or Juniper device (juniper-junos-j), in human readable format (generic), or in the native XML format (xml). Type: String Default: None Valid Values: cisco-ios-isr juniper-junos-j juniper-screenos-6.2	No
	juniper-screenos-6.1 generic xml Example:format cisco-ios-isr	
stylesheet your_stylesheet	Causes the response to include customer gateway configuration information, formatted according to the custom XSL stylesheet you specify with this option. Type: String Default: None Example:stylesheet c:\my_stylesheet.xsl	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPNCONNECTION")
- VPN connection ID, which uniquely identifies the VPN connection
- Current state of the VPN connection (pending, available, deleting, deleted)
- Type of VPN connection
- · Customer gateway ID
- · Virtual private gateway ID
- · Configuration information for the customer gateway

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a VPN connection between the virtual private gateway with ID vgw-8db04f81 and the customer gateway with ID cgw-b4dc3961. The example specifies that the configuration information be formatted as needed for a Cisco customer gateway. Because it's a long set of information, we haven't displayed it here in the response. To see an example of the information returned, go to the Amazon Virtual Private Cloud Network Administrator Guide.

Amazon Elastic Compute Cloud CLI Reference Related Operations

```
PROMPT> ec2-create-vpn-connection -t ipsec.1 --customer-gateway cgw-b4dc3961 -
-vpn-gateway
vgw-8db04f81 --format cisco-ios-isr

VPNCONNECTION vpn-44a8938f pending ipsec.1 cgw-b4dc3961 vgw-8db04f81
<Long customer gateway configuration data...>
```

- ec2-describe-vpn-connections (p. 325)
- ec2-delete-vpn-connection (p. 170)
- ec2-create-vpc (p. 116)
- ec2-create-subnet (p. 107)
- ec2-attach-vpn-gateway (p. 34)

ec2-create-vpn-gateway

Description

Creates a new virtual private gateway. A virtual private gateway is the VPC-side endpoint for your VPN connection. You can create a virtual private gateway before creating the VPC itself.

For more information about Amazon Virtual Private Cloud and virtual private gateway, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2addvgw.

Syntax

ec2-create-vpn-gateway -t type

Options

Name	Description	Required
-t type	The type of VPN connection this virtual private gateway supports. Type: String Default: None Valid Values: ipsec.1 Example: -t ipsec.1	Yes
-z availability_zone	The Availability Zone option has been deprecated. The command will accept this option and ignore it. Type: String Default: None	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPNGATEWAY")
- · Virtual private gateway ID, which uniquely identifies the virtual private gateway
- Current state of the virtual private gateway (pending, available, deleting, deleted)
- Type of VPN connection the virtual private gateway supports
- Availability Zone the virtual private gateway is in
- Information about VPCs attached to the virtual private gateway (there are none attached when you first create a virtual private gateway)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a virtual private gateway.

```
PROMPT> ec2-create-vpn-gateway -t ipsec.1

VPNGATEWAY vgw-8db04f81 pending ipsec.1
```

- ec2-describe-vpn-gateways (p. 330)
- ec2-delete-vpn-gateway (p. 173)
- ec2-attach-vpn-gateway (p. 34)
- ec2-detach-vpn-gateway (p. 342)

ec2-delete-customer-gateway

Description

Deletes a customer gateway. You must delete the VPN connection before deleting the customer gateway.

For more information about Amazon Virtual Private Cloud and VPN customer gateways, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2delcgw.

Syntax

ec2-delete-customer-gateway customer_gateway_id

Options

Name	Description	Required
customer_gateway_id	The ID of the customer gateway you want to delete. Type: String Default: None Example: cgw-b4dc3961	Yes

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description
Specifies a connection timeout (in seconds). Example:connection-timeout 30
Specifies a request timeout (in seconds). Example:request-timeout 45
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
Displays column headers in the output.
Shows empty columns as (nil).
Do not display tags for tagged resources.
Prints internal debugging information. This is useful to assist us when troubleshooting problems.
Displays Help.
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("CUSTOMERGATEWAY")
- Customer gateway ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the customer gateway with ID cgw-b4dc3961.

PROMPT> ec2-delete-customer-gateway cgw-b4dc3961 CUSTOMERGATEWAY cgw-b4dc3961

- ec2-create-customer-gateway (p. 64)
- ec2-describe-customer-gateways (p. 192)

ec2-delete-dhcp-options

Description

Deletes a set of DHCP options that you specify. Amazon VPC returns an error if the set of options you specify is currently associated with a VPC. You can disassociate the set of options by associating either a new set of options or the default options with the VPC.

For more information about Amazon Virtual Private Cloud and DHCP options sets, go to Using DHCP Options in Your VPC in the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2deldopt.

Syntax

ec2-delete-dhcp-options dhcp_options_id

Options

Name	Description	Required
dhcp_options_id	The ID of the DHCP options set you want to delete.	Yes
	Type: String	
	Default: None	
	Example: dopt-7a8b9c2d	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description
Specifies a connection timeout (in seconds). Example:connection-timeout 30
Specifies a request timeout (in seconds). Example:request-timeout 45
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
Displays column headers in the output.
Shows empty columns as (nil).
Do not display tags for tagged resources.
Prints internal debugging information. This is useful to assist us when troubleshooting problems.
Displays Help.
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("DHCPOPTIONS")
- · DHCP options ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the set of DHCP options with ID dopt-7a8b9c2d.

PROMPT> ec2-delete-dhcp-options dopt-7a8b9c2d DHCPOPTIONS dopt-7a8b9c2d

- ec2-associate-dhcp-options (p. 19)
- ec2-create-dhcp-options (p. 67)

• ec2-describe-dhcp-options (p. 196)

ec2-delete-disk-image

Description

Deletes a partially or fully uploaded disk image for conversion from Amazon S3. You can specify either the conversion task ID, or the URL to the import manifest file in Amazon S3. For more information, go to Using the Command Line Tools to Import Your Virtual Machine to Amazon EC2 in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is ec2ddi.

Syntax

```
ec2-delete-disk-image { -t task_id | -u url } -o owner_access_key_id -w
owner_secret_access_key [--ignore-active-task]
```

Options

Name	Description	Required
-t,task task_id	Task ID of the conversion task that is no longer active. Type: String Default: None Condition: Either the task ID or the URL to the manifest is required. Example: -t import-i-fh95npoc	Conditional
-u,manifest-url	Specify the URL for an existing import manifest file. Use this option to delete the uploaded disk image even if one or more active conversion tasks still reference the manifest. Type: String Default: None Condition: Either the task ID or the URL to the manifest is required. Example: -u http://some-s3-location/mydisk-to-delete.vmdk	Conditional
-o,owner-akid owner_access_key_id	Access Key ID of the owner of the bucket containing the uploaded disk image to be deleted. This parameter value is not sent to EC2. Type: String Default: None Example: -o AKIAIOSFODNN7EXAMPLE	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-w,owner-sak owner_secret_access_ key	AWS Secret Access Key of the owner of the bucket containing the uploaded disk image to be deleted. This parameter value is not sent to EC2. Type: String Default: None Example: -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
ignore-active-task	Delete the uploaded disk image despite having an active task. Using this option may cause active tasks to fail. Use this option at your own risk. Type: String Default: None Example:ignore-active-task	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on
	the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

Task ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the import-i-fh95npoc disk image.

PROMPT> ec2-delete-disk-image -t import-i-fh95npoc -o AKIAIOSFODNN7EXAMPLE -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY

DELETE-TASK import-i-fh95npoc

- ec2-import-instance (p. 361)
- ec2-import-volume (p. 370)
- ec2-resume-import (p. 448)
- ec2-cancel-conversion-task (p. 50)

ec2-delete-group

Description

Deletes a security group. This action applies to both EC2 security groups and VPC security groups. For information about VPC security groups and how they differ from EC2 security groups, go to Security Groups in the *Amazon Virtual Private Cloud User Guide*.



Note

If you attempt to delete a security group that contains instances, or attempt to delete a security group that is referenced by another security group, an error is returned. For example, if security group B has a rule that allows access from security group A, security group A cannot be deleted until the rule is removed.

The fault returned is InvalidGroup. InUse for EC2 security groups, or DependencyViolation for VPC security groups.

The short version of this command is ec2delgrp.

Syntax

ec2-delete-group { group_name | group_id }

Options

Name	Description	Required
group_name	Name of the EC2 security group to delete. Type: String Default: None Condition: Either the group name or the group ID is required. Example: websrv	Conditional
group_id	ID of the security group to delete. Type: String Default: None Condition: Required for a VPC security group. For an EC2 security group, either the group name or the group ID is required. Example: sg-32fa9d3e	Conditional

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the EC2 security group called webserv.

```
PROMPT> ec2-delete-group websrv RETURN true
```

Example Request

This example deletes the VPC security group with ID sg-43eeba92.

```
PROMPT> ec2-delete-group sg-43eeba92 RETURN true
```

- ec2-create-group (p. 70)
- ec2-describe-group (p. 203)
- ec2-authorize (p. 37)
- ec2-revoke (p. 452)

ec2-delete-internet-gateway

Description

Deletes an Internet gateway from your AWS account. The gateway must not be attached to a VPC. For more information about your VPC and Internet gateway, go to the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2deligw.

Syntax

ec2-delete-internet-gateway internet_gateway_id

Options

Name	Description	Required
<pre>internet_gateway_id</pre>	The ID of the Internet gateway you want to delete. Type: String Default: None Example: igw-8db04f81	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description
Specifies a connection timeout (in seconds). Example:connection-timeout 30
Specifies a request timeout (in seconds). Example:request-timeout 45
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
Displays column headers in the output.
Shows empty columns as (nil).
Do not display tags for tagged resources.
Prints internal debugging information. This is useful to assist us when troubleshooting problems.
Displays Help.
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the Internet gateway with ID igw-eaad4883.

PROMPT> ec2-delete-internet-gateway igw-eaad4883 RETURN true

- ec2-create-internet-gateway (p. 77)
- ec2-attach-internet-gateway (p. 25)
- ec2-detach-internet-gateway (p. 334)

Amazon Elastic Compute Cloud CLI Reference Related Operations

• ec2-describe-internet-gateways (p. 236)	

ec2-delete-keypair

Description

Deletes the specified key pair, by removing the public key from Amazon EC2. You must own the key pair.

The short version of this command is ec2delkey.

Syntax

ec2-delete-keypair key_pair

Options

Name	Description	Required
key_pair	Name of the key pair to delete. Type: String Default: None Example: primary_keypair	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- · KEYPAIR identifier
- · Name of the deleted key pair

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the gsg-keypair key pair.

```
PROMPT> ec2-delete-keypair gsg-keypair KEYPAIR gsg-keypair
```

- ec2-create-keypair (p. 79)
- ec2-describe-keypairs (p. 240)

ec2-delete-network-acl

Description

Deletes a network ACL from a VPC. The ACL must not be associated with any subnets. You can't delete the default network ACL. For more information about network ACLs, go to Network ACLs in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2delnacl.

Syntax

ec2-delete-network-acl acl_id

Options

Name	Description	Required
acl_id	The ID of the network ACL to be deleted.	Yes
	Type: String	
	Default: None	
	Example: acl-2cb85d45	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the network ACL with ID acl-2cb85d45.

```
PROMPT> ec2-delete-network-acl acl-2cb85d45 RETURN true
```

- ec2-create-network-acl (p. 82)
- ec2-describe-network-acls (p. 243)
- ec2-replace-network-acl-association (p. 413)

ec2-delete-network-acl-entry

Description

Deletes an ingress or egress entry (i.e., rule) from a network ACL. For more information about network ACLs, go to Network ACLs in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2delnae.

Syntax

ec2-delete-network-acl-entry acl_id -n rule_number [--egress]

Options

Name	Description	Required
acl_id	ID of the network ACL.	Yes
	Type: String	
	Default: None	
	Example: acl-5fb85d36	
-n,rule-number	Rule number for the entry to delete.	Yes
rule_number	Type: Number	
	Default: None	
	Example: 100	
egress	Optional flag to indicate that the rule to delete is an egress rule.	No
	Default: If not specified, we assume the rule to delete is an ingress rule.	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Option	Description	
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the ingress entry with rule number 100 from the network ACL with ID acl-2cb85d45.

Amazon Elastic Compute Cloud CLI Reference Related Operations

 $\label{eq:prompt} \mbox{{\tt PROMPT}} > \mbox{{\tt ec2-delete-network-acl-entry acl-2cb85d45}} \mbox{{\tt -n} 100} \\ \mbox{{\tt RETURN}} \mbox{{\tt true}}$

Example Request

This example deletes the egress entry with rule number 200 from the network ACL with ID acl-2cb85d45.

 $\label{eq:prompt} \mbox{{\tt PROMPT}} > \mbox{{\tt ec2-delete-network-acl-entry}} \ \mbox{{\tt ac1-2cb85d45}} \ \mbox{{\tt -n}} \ \mbox{{\tt 200}} \ \mbox{{\tt --egress}} \\ \mbox{{\tt RETURN}} \ \mbox{{\tt true}}$

- ec2-replace-network-acl-entry (p. 416)
- ec2-create-network-acl-entry (p. 85)
- ec2-describe-network-acls (p. 243)

ec2-delete-network-interface

Description

Deletes a network interface. Network interfaces must be detached from an instance before they can be deleted.

The short version of this command is ec2delnic.

Syntax

ec2-delete-network-interface NETWORKINTERFACE

Options

Name	Description	Required
NETWORKINTERFACE	The network interface ID. Type: String Default: None Example: eni-3a9f6553	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the name of the network interface that you deleted.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the specified network interface.

PROMPT> ec2-delete-network-interface eni-3a9f6553
NETWORKINTERFACE eni-3a9f6553

- ec2-create-network-interface (p. 89)
- ec2-describe-network-interfaces (p. 248)
- ec2-describe-network-interface-attribute (p. 254)
- ec2-attach-network-interface (p. 28)
- ec2-detach-network-interface (p. 337)
- ec2-modify-network-interface-attribute (p. 387)
- ec2-reset-network-interface-attribute (p. 443)

ec2-delete-placement-group

Description

Deletes a placement group in your account. You must terminate all instances in the placement group before deleting it. For more information about placement groups and cluster instances, go to Using Cluster Instances in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is **ec2delpgrp**.

ec2-delete-placement-group placement-group

Options

Name	Description	Required
placement-group	The name of the placement group. Type: String Default: None Example: XYZ-cluster	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45

Option	Description
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the following information:

- PLACEMENTGROUP identifier
- Placement group name
- Placement group status (e.g., deleted)

Examples

Example Request

This example deletes the XYZ-cluster placement group.

```
PROMPT> ec2-delete-placement-group XYZ-cluster PLACEMENTGROUP XYZ-cluster deleted
```

- ec2-create-placement-group (p. 92)
- ec2-describe-placement-groups (p. 257)

ec2-delete-route

Description

Deletes a route from a route table in a VPC. For more information about route tables, go to Route Tables in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2delrt.

Syntax

ec2-delete-route route_table_id -r cidr

Options

Name	Description	Required
route_table_id	The ID of the route table where the route will be deleted. Type: String Default: None Example: rtb-5da34634	Yes
-r,cidr cidr	The CIDR range for the route you want to delete. The value you specify must exactly match the CIDR for the route you want to delete. Type: String Default: None Example: 0.0.0.0/0	Yes

Option	Description
region REGION	Overrides the Region specified in the $EC2_URL$ environment variable and the URL specified by the $-U$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example removes the route with destination CIDR 172.16.1.0/24 from the route table with ID rtb-e4ad488d.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-delete-route rtb-e4ad488d -r 172.16.1.0/24 RETURN true

- ec2-create-route (p. 95)
- ec2-replace-route (p. 420)
- ec2-describe-route-tables (p. 274)

ec2-delete-route-table

Description

Deletes a route table from a VPC. The route table must not be associated with a subnet. You can't delete the main route table. For more information about route tables, go to Route Tables in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2delrtb.

Syntax

ec2-delete-route-table route_table_id

Options

Name	Description	Required
route_table_id	The ID of the route table to delete.	Yes
	Type: String	
	Default: None	
	Example: rtb-7aa34613	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the route table with ID rtb-7aa34613.

```
PROMPT> ec2-delete-route-table rtb-7aa34613 RETURN true
```

- ec2-create-route-table (p. 98)
- ec2-associate-route-table (p. 22)
- ec2-disassociate-route-table (p. 348)
- ec2-describe-route-tables (p. 274)
- ec2-replace-route-table-association (p. 423)

ec2-delete-snapshot

Description

Deletes a snapshot of an Amazon EBS volume.



Note

If you make periodic snapshots of a volume, the snapshots are incremental so that only the blocks on the device that have changed since your last snapshot are incrementally saved in the new snapshot. Even though snapshots are saved incrementally, the snapshot deletion process is designed so that you need to retain only the most recent snapshot in order to restore the volume.

The short version of this command is **ec2delsnap**.

Syntax

ec2-delete-snapshot snapshot_id

Options

Name	Description	Required
snapshot_id	The ID of the Amazon EBS snapshot to delete.	Yes
	Type: String	
	Default: None	
	Example: snap-78a54011	

Option	Description
region REGION	Overrides the Region specified in the $EC2_URL$ environment variable and the URL specified by the $-U$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Option	Description
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- SNAPSHOT identifier
- ID of the snapshot

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes snapshot snap-78a54011.

PROMPT> ec2-delete-snapshot snap-78a54011 SNAPSHOT snap-78a54011

- ec2-create-snapshot (p. 101)
- ec2-describe-snapshots (p. 282)

ec2-delete-spot-datafeed-subscription

Description

Deletes the data feed for Spot Instances. For more information about Spot Instances, go to Spot Instances in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2delsds.

Syntax

ec2-delete-spot-datafeed-subscription

Options

This command does not have any options.

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.

Option	Description
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns no output.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the data feed for the account.

```
PROMPT> ec2-delete-spot-datafeed-subscription -
```

- ec2-create-spot-datafeed-subscription (p. 104)
- ec2-describe-spot-datafeed-subscription (p. 287)

ec2-delete-subnet

Description

Deletes a subnet from a VPC. You must terminate all running instances in the subnet before deleting it, otherwise Amazon VPC returns an error.

The short version of this command is ec2delsubnet.

Syntax

ec2-delete-subnet subnet_id

Options

Name	Description	Required
subnet_id	The ID of the subnet you want to delete. Type: String Default: None Example: subnet-9d4a7b6c	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("SUBNET")
- Subnet ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the subnet with ID subnet-9d4a7b6c.

```
PROMPT> ec2-delete-subnet subnet-9d4a7b6c SUBNET subnet-9d4a7b6c
```

- ec2-create-subnet (p. 107)
- ec2-describe-subnets (p. 300)

ec2-delete-tags

Description

Deletes a specific set of tags from a specific set of resources. This call is designed to follow a ec2-describe-tags call. You first determine what tags a resource has, and then you call ec2-delete-tags with the resource ID and the specific tags you want to delete.

For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is ec2deltag.

Syntax

```
ec2-delete-tags resource_id [resource_id ... ] --tag key[=value] [--tag
key[=value ...]
```

Options

Name	Description	Required
resource_id	AWS-assigned identifier for the resource whose tag you want to delete. You can specify more than one resource ID.	Yes
	Type: String	
	Default: None	
	Example: i-1a2b3c4d	
tag key Or key=value	Key and optional value of the tag, separated by an equals sign (=). You can specify more than one tag to remove.	Yes
	Type: String	
	Default: None	
	Example:tag stack=Production	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns no output if the deletion is successful.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the tags for the AMI with ID ami-1a2b3c4d. You first get a list of the tags.

```
PROMPT> ec2-describe-tags --filter "resource-id=ami-la2b3c4d"

TAG ami-la2b3c4d image webserver

TAG ami-la2b3c4d image stack Production
```

Amazon Elastic Compute Cloud CLI Reference Related Operations

Then you delete the tags. Specifying the value for the stack tag is optional.

```
PROMPT> ec2-delete-tags ami-la2b3c4d --tag webserver --tag stack=Production
```

If you specify a value for the key, the tag is deleted only if the tag's value matches the one you specified. If you specify the empty string as the value, the tag is deleted only if the tag's value is the empty string. The following example specifies the empty string as the value for the tag to delete (notice the equals sign after Owner).

PROMPT> ec2-delete-tags snap-4dfg39a --tag Owner=

Example Request

This example deletes the stack tag from two particular instances.

PROMPT> ec2-delete-tags i-5f4e3d2a i-12345678 --tag stack

Example Request

You can specify a tag key without a corresponding tag value if you want to delete the tag regardless of its value. This example deletes all tags for the specified resources where key=Purpose, regardless of the tag value.

PROMPT> ec2-delete-tags i-5f4e3d2a i-4d5h8a9b i-1d3d4fae --tag Purpose

- ec2-create-tags (p. 110)
- ec2-describe-tags (p. 304)

ec2-delete-volume

Description

Deletes an Amazon EBS volume. The volume must be in the available state (not attached to an instance). For more information about Amazon EBS, go to Amazon Elastic BLock Store in the Amazon Elastic Compute Cloud User Guide.



Note

The volume remains in the deleting state for several minutes after you enter this command.

The short version of this command is ec2delvol.

Syntax

ec2-delete-volume volume_id

Options

Name	Description	Required
volume_id	The ID of the volume to delete. Type: String Default: None Example: vol-4282672b	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- VOLUME identifier
- ID of the volume you deleted

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes volume vol-4282672b.

PROMPT> ec2-delete-volume vol-4282672b VOLUME vol-4282672b

- ec2-create-volume (p. 113)
- ec2-describe-volumes (p. 308)
- ec2-attach-volume (p. 31)
- ec2-detach-volume (p. 339)

ec2-delete-vpc

Description

Deletes a VPC. You must detach or delete all gateways or other objects that are dependent on the VPC first. For example, you must terminate all running instances, delete all VPC security groups (except the default), delete all the route tables (except the default), etc.

The short version of this command is **ec2delvpc**.

Syntax

ec2-delete-vpc vpc_id

Options

Description	Required
The ID of the VPC to delete.	Yes
Type: String	
Default: None	
Example: vpc-1a2b3c4d	
	The ID of the VPC to delete. Type: String Default: None

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPC")
- The VPC ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the VPC with ID vpc-1a2b3c4d.

```
PROMPT> ec2-delete-vpc vpc-la2b3c4d VPC vpc-la2b3c4d
```

- ec2-create-vpc (p. 116)
- ec2-describe-vpcs (p. 321)

ec2-delete-vpn-connection

Description

Deletes a VPN connection. Use this if you want to delete a VPC and all its associated components. Another reason to use this command is if you believe the tunnel credentials for your VPN connection have been compromised. In that situation, you can delete the VPN connection and create a new one that has new keys, without needing to delete the VPC or virtual private gateway. If you create a new VPN connection, you must reconfigure the customer gateway using the new configuration information returned with the new VPN connection ID.

If you're deleting the VPC and all its associated parts, we recommend you detach the virtual private gateway from the VPC and delete the VPC before deleting the VPN connection.

For more information about Amazon Virtual Private Cloud and VPN connections, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2delvpn.

Syntax

ec2-delete-vpn-connection vpn_connection_id

Options

Name	Description	Required
vpn_connection_id	The ID of the VPN connection you want to delete. Type: String Default: None Example: vpn-44a8938f	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPNCONNECTION")
- VPN connection ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the VPN connection with ID vpn-44a8938f.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-delete-vpn-connection vpn-44a8938f VPNCONNECTION vpn-44a8938f

- ec2-create-vpn-connection (p. 119)
- ec2-describe-vpn-connections (p. 325)
- ec2-detach-vpn-gateway (p. 342)
- ec2-delete-vpc (p. 168)

ec2-delete-vpn-gateway

Description

Deletes a virtual private gateway. Use this when you want to delete a VPC and all its associated components because you no longer need them. We recommend that before you delete a virtual private gateway, you detach it from the VPC and delete the VPN connection. Note that you don't need to delete the virtual private gateway if you just want to delete and recreate the VPN connection between your VPC and data center.

For more information about Amazon Virtual Private Cloud and virtual private gateways, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2delvgw.

Syntax

ec2-delete-vpn-gateway vpn_gateway_id

Options

Name	Description	Required
vpn_gateway_id	The ID of the virtual private gateway you want to delete. Type: String Default: None Example: vgw-8db04f81	Yes

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPNGATEWAY")
- · Virtual private gateway ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deletes the virtual private gateway with ID vgw-8db04f81.

PROMPT> ec2-delete-vpn-gateway vgw-8db04f81 VPNGATEWAY vgw-8db04f81

- ec2-create-vpn-gateway (p. 123)
- ec2-describe-vpn-gateways (p. 330)
- ec2-delete-vpn-connection (p. 170)

ec2-deregister

Description

Deregisters the specified AMI. Once deregistered, the AMI cannot be used to launch new instances.



Note

This command does not delete the AMI.

The short version of this command is ec2dereg.

Syntax

ec2-deregister ami_id

Options

Name	Description	Required
ami_id	ID of the AMI to deregister. Type: String Default: None Example: ami-4fa54026	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- IMAGE identifier
- The ID of the AMI that was deregistered

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example deregisters the ami-4fa54026 AMI.

PROMPT> ec2-deregister ami-4fa54026 IMAGE ami-4fa54026

- ec2-register (p. 405)
- ec2-describe-images (p. 211)

ec2-describe-addresses

Description

Gives information about Elastic IP addresses allocated to your account. This includes both EC2 and VPC Elastic IP addresses. For information about VPC addresses and how they differ from EC2 addresses, go to Elastic IP Addresses in the *Amazon Virtual Private Cloud User Guide*.

You can filter the results to return information only about Elastic IP addresses that match criteria you specify. For example, you could get information only about addresses tagged with a certain value. You can specify multiple values for a filter. An address must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the address is a particular value, and is tagged with a certain value). The result includes information for an address only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
domain	Whether the address is a EC2 address, or a VPC address. Type: String Valid Values: standard vpc
instance-id	Instance the address is associated with (if any). Type: String
public-ip	The Elastic IP address. Type: String
allocation-id	Allocation ID for the address (for VPC addresses only). Type: String
association-id	Association ID for the address (for VPC addresses only). Type: String

The short version of this command is ec2daddr.

Syntax

ec2-describe-addresses [public_ip ... | allocation_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
public_ip	EC2 Elastic IP address to describe. Type: String Default: Describes all addresses you own, or only those otherwise specified. Example: 198.51.100.1	No
allocation_id	VPC Elastic IP address to describe. Type: String Default: Describes all addresses you own, or only those otherwise specified. Example: eipalloc-9558a4fc	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all addresses you own, or only those otherwise specified. Example:filter "instance-id=i-1a2b3c4d"	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ADDRESS")
- Elastic IP address
- Instance ID to which the IP address is assigned
- The domain of the address (standard or vpc)
- Allocation ID (for VPC addresses only)
- Association ID (for VPC addresses only)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the EC2 address 192.0.2.1, which is assigned to instance i-f15ebb98.

```
PROMPT> ec2-describe-addresses 192.0.2.1
ADDRESS 192.0.2.1 i-f15ebb98 standard
```

Example Request

This example describes the VPC address with allocation ID eipalloc-9258a4fb, which is assigned to instance i-9e9da4e9.

```
PROMPT> ec2-describe-addresses eipalloc-9258a4fb
ADDRESS 198.51.100.1 i-9e9da4e9 vpc eipalloc-9258a4fb eipassoc-0659a56f
```

Example Request

This example describes all your Elastic IP addresses (both EC2 and VPC).

```
PROMPT> ec2-describe-addresses

ADDRESS 192.0.2.1 i-f15ebb98 standard

ADDRESS 198.51.100.1 i-9e9da4e9 vpc eipalloc-9258a4fb eipassoc-
0659a56f

ADDRESS 203.0.113.1 vpc eipalloc-9558a4fc
```

Example Request

This example describes only your VPC Elastic IP addresses.

```
PROMPT> ec2-describe-addresses --filter "allocation-id=*"

ADDRESS 198.51.100.1 i-9e9da4e9 vpc eipalloc-9258a4fb eipassoc-
0659a56f

ADDRESS 203.0.113.1 vpc eipalloc-9558a4fc
```

- ec2-allocate-address (p. 12)
- ec2-release-address (p. 410)
- ec2-associate-address (p. 15)
- ec2-disassociate-address (p. 345)

ec2-describe-availability-zones

Description

Displays Availability Zones that are currently available to the account. The results include zones only for the Region you're currently using.



Note

Availability Zones are not the same across accounts. The Availability Zone us-east-1a for account A is not necessarily the same as us-east-1a for account B. Zone assignments are mapped independently for each account.

You can filter the results to return information only about zones that match criteria you specify. For example, you could filter the results to return only the zones whose state is available. You can specify multiple filters (e.g., the zone is in a particular Region, and the state is available). The result includes information for a particular zone only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
message	Message giving information about the Availability Zone. Type: String
region-name	Region the Availablity Zone is in (e.g., us-east-1). Type: String
state	State of the Availability Zone Type: String Valid Values: available
zone-name	Name of the zone. Type: String

The short version of this command is ec2daz.

Syntax

ec2-describe-availability-zones [zone_name ...] [[--filter name=value] ...]

Options

Name	Description	Required
zone_name	Availability Zone name. Type: String Default: Shows all zones in the Region. Example: us-east-1a	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value").	No
	Type: String	
	Default: Shows all zones in the Region, or only the ones you've otherwise specified.	
	Example:filter "region-name=ap-southeast-1"	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f
	2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- AVAILABILITYZONE identifier
- · Availability Zone name
- · State of the zone

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example displays information about Availability Zones that are available to the account. The results include zones only for the Region you're currently using.

```
PROMPT> ec2-describe-availability-zones
AVAILABILITYZONE us-east-la available
AVAILABILITYZONE us-east-lb available
AVAILABILITYZONE us-east-lc available
AVAILABILITYZONE us-east-ld available
```

- ec2-run-instances (p. 457)
- ec2-describe-regions (p. 260)

ec2-describe-bundle-tasks

Description

Describes current bundling tasks.



Note

Completed bundle tasks are listed for only a limited time. If your bundle task is no longer in the list, you can still register an AMI from it. Just use the ec2-register command with the Amazon S3 bucket name and image manifest name you provided to the bundle task.

You can filter the results to return information only about tasks that match criteria you specify. For example, you could filter the results to return only the tasks whose state is complete. You can specify multiple values for a filter. A bundle task must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the bundle is stored in a particular Amazon S3 bucket and the state is complete). The result includes information for a particular bundle task only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
bundle-id	ID of the bundle task. Type: String
error-code	If the task failed, the error code returned. Type: String
error-message	If the task failed, the error message returned. Type: String
instance-id	ID of the instance that was bundled. Type: String
progress	Level of task completion, in percent (e.g., 20%). Type: String
s3-bucket	Amazon S3 bucket where the AMI will be stored. Type: String
s3-prefix	Beginning of the AMI name. Type: String
start-time	Time the task started, e.g., 2008-09-15T17:15:20.000Z. Type: xsd:dateTime

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
state	State of the task. Type: String Valid Values: pending waiting-for-shutdown bundling storing cancelling complete failed
update-time	Time of the most recent update for the task, e.g., 2008-09-15T17:15:20.000Z. Type: xsd:dateTime

The short version of this command is ec2dbun.

Syntax

ec2-describe-bundle-tasks [bundle ...] [[--filter name=value] ...]

Options

Name	Description	Required
bundle	The ID of the bundle task to describe. Type: String Default: Describes all bundle tasks, or only those otherwise specified. Example: bun-cla432a3	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all your bundle tasks, or only those otherwise specified. Example:filter "state=pending"	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- BUNDLE identifier
- ID of the bundle
- ID of the instance
- Bucket name
- Prefix
- Start time

Amazon Elastic Compute Cloud CLI Reference Examples

- · Update time
- · State (pending, waiting-for-shutdown, bundling, storing, cancelling, complete, failed)
- Progress in % if state is "bundling"

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the status of the bun-cla540a8 bundle task.

```
PROMPT> ec2-describe-bundle-tasks bun-cla540a8
BUNDLE bun-cla540a8 i-2674d22r myawsbucket winami 2008-09-15T17:15:20.000Z
2008-09-15T17:15:20.000Z bundling 3%
```

Example Request

This example filters the results to display only bundle tasks whose state is either complete or failed, and in addition are targeted for the Amazon S3 bucket called myawsbucket.

```
PROMPT> ec2-describe-bundle-tasks --filter "s3-bucket=myawsbucket" --filter "state=complete" --filter "state=failed"

BUNDLE bun-la2b3c4d i-8765abcd myawsbucket linuxami 2008-09-14T08:32:43.000Z 2008-09-14T08:32:43.000Z complete
```

- ec2-bundle-instance (p. 43)
- ec2-cancel-bundle-task (p. 47)

ec2-describe-conversion-tasks

Description

Lists and describes your conversion tasks. For more information, go to Using the Command Line Tools to Import Your Virtual Machine to Amazon EC2 in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2dct.

Syntax

ec2-describe-conversion-tasks [task_id ...] [--show-transfer-details]

Options

Name	Description	Required
task_id	The conversion task ID for the upload. If not specified, all of your conversion tasks are returned.	No
	Type: String	
	Default: None	
	Example: import-i-ffvko9js	
show-transfer-deta ils	Displays additional details for uploading the disk image. The ec2-upload-disk-image command automatically returns this information.	No
	Type: None	
	Default: None	
	Example:show-transfer-details	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2 PRIVATE KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the following information:

- Information about the task, such as the task ID, task type, expiration, status, and number of bytes received
- Information about the image, such as the image size, format, volume ID, and volume size

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example shows the status of your import instance task.

PROMPT>ec2-describe-conversion-tasks import-i-ffvko9js

- ec2-import-instance (p. 361)
- ec2-import-volume (p. 370)
- ec2-resume-import (p. 448)
- ec2-delete-disk-image (p. 130)
- ec2-cancel-conversion-task (p. 50)

ec2-describe-customer-gateways

Description

Gives you information about your customer gateways. You can filter the results to return information only about customer gateways that match criteria you specify. For example, you could get information only about gateways whose state is pending or available. The customer gateway must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the customer gateway has a particular IP address for the Internet-routable external interface, and the gateway's state is pending or available). The result includes information for a particular customer gateway only if the gateway matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
bgp-asn	The customer gateway's Border Gateway Protocol (BGP) Autonomous System Number (ASN). Type: String
customer-gateway-id	ID of the customer gateway. Type: String
ip-address	The IP address of the customer gateway's Internet-routable external interface (e.g., 12.1.2.3). Type: String
state	The state of the customer gateway. Type: String Valid Values: pending available deleting deleted
type	The type of customer gateway. Currently the only supported type is ipsec.1. Type: String Valid Values: ipsec.1
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide.
	Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y

For more information about Amazon Virtual Private Cloud and VPN customer gateways, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2dcgw.

Syntax

```
ec2-describe-customer-gateways [ customer_gateway_id ... ] [[--filter
name=value] ...]
```

Options

Name	Description	Required
customer_gateway_id	A customer gateway ID. You can specify more than one in the request. Type: String Default: Returns information about all your customer gateways. Example: cgw-b4dc3961	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all customer gateways you own, or only those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("CUSTOMERGATEWAY")
- · Customer gateway ID
- State of the customer gateway (pending, available, deleting, deleted)
- Type of VPN connection the customer gateway supports
- · Internet-routable IP address of the customer gateway's outside interface
- The customer gateway's Border Gateway Protocol (BGP) Autonomous System Number (ASN)
- · Any tags assigned to the customer gateway

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example gives a description of the customer gateway with ID cgw-b4dc3961.

```
PROMPT> ec2-describe-customer-gateways cgw-b4dc3961
CUSTOMERGATEWAY cgw-b4dc3961 available ipsec.1 12.1.2.3 65534
```

Example Request

This example uses filters to give a description of any customer gateway you own whose IP address is 12.1.2.3, and whose state is either pending or available.

```
PROMPT> ec2-describe-customer-gateways --filter "ip-address=12.1.2.3" --filter "state=pending" --filter "state=available"

CUSTOMERGATEWAY cgw-b4dc3961 available ipsec.1 12.1.2.3 65534
```

- ec2-create-customer-gateway (p. 64)
- ec2-delete-customer-gateway (p. 126)

ec2-describe-dhcp-options

Description

Gives you information about one or more sets of DHCP options. You can specify one or more DHCP options set IDs, or no IDs (to describe all your sets of DHCP options).

You can filter the results to return information only about sets of options that match criteria you specify. For example, you could get information for sets that have a certain value for the domain-name option. You can specify multiple values for the filter. The option must match at least one of the specified values for the options set to be included in the results.

You can specify multiple filters (e.g., a certain value for domain-name, and a tag with a certain value). The result includes information for a set of options only if the specified option matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
dhcp-options-id	The ID of a set of DHCP options. Type: String
key	The key for one of the options (e.g., domain-name). Type: String
value	The value for one of the options. Type: String
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic
	Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: <i>key</i>	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify:
	filter tag:Purpose=Xfilter tag:Purpose=Y

Amazon Elastic Compute Cloud CLI Reference Syntax

For more information about Amazon Virtual Private Cloud and DHCP options sets, go to Using DHCP Options in Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is **ec2ddopt**.

Syntax

ec2-describe-dhcp-options [dhcp_options_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
dhcp_options_id	A DHCP options set ID. You can specify more than one in the request. Type: String Default: Returns information about all your sets of DHCP options, or only those otherwise specified. Example: dopt-7a8b9c2d	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all DHCP options set you own, or only those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region REGION	Overrides the Region specified in the $EC2_URL$ environment variable and the URL specified by the $-U$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	\it{URL} is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("DHCPOPTIONS")
- · DHCP options set ID
- Name and values for each option in the set
- Any tags assigned to the set

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example gives a description of the DHCP options set with ID dopt-7a8b9c2d.

```
PROMPT> ec2-describe-dhcp-options dopt-7a8b9c2d DHCPOPTIONS dopt-7a8b9c2d
OPTION domain-name mydomain.com
OPTION domain-name-servers 10.2.5.1,10.2.5.2
```

Example Request

This example uses filters to give a description of any DHCP options set that includes a domain-name option whose value includes the string example.

```
PROMPT> ec2-describe-dhcp-options --filter "key=domain-name" --filter "value=*example*"
```

- ec2-create-dhcp-options (p. 67)
- ec2-associate-dhcp-options (p. 19)
- ec2-delete-dhcp-options (p. 128)

ec2-describe-export-tasks

Description

Lists the information about your export tasks, including the most recent canceled and completed tasks.

The short version of this command is ec2dxt.

Syntax

ec2-describe-export-tasks [task_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
task_id	The export task ID returned by ec2-create-instance-export-task. If not specified, all of your export tasks are returned. Type: String Default: None Example: The export task ID returned by ec2-create-instance-export-task . If not specified, all of your export tasks are returned	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the
	environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Description
Specifies a connection timeout (in seconds). Example:connection-timeout 30
Specifies a request timeout (in seconds). Example:request-timeout 45
Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
Displays column headers in the output.
Shows empty columns as (nil).
Do not display tags for tagged resources.
Prints internal debugging information. This is useful to assist us when troubleshooting problems.
Displays Help.
If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f2 ec2-start-instances -

Output

The command returns information about the export task including:

- task ID
- status
- · export progress

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the export task with the ID export-i-fgelt0i7.

PROMPT> ec2-describe-export-tasks export-i-fgelt0i7EXPORTTASK export-i-fgelt0i7 active i-81428ee7 vmware vmdk myexportbucket export-i-fgelt0i7.vmdk

Amazon Elastic Compute Cloud CLI Reference Related Operations

- ec2-cancel-export-task (p. 53)
- ec2-create-instance-export-task (p. 61)

ec2-describe-group

Description

Returns information about security groups in your account. This includes both EC2 security groups and VPC security groups. For information about how the two types of groups differ, go to Security Groups in the *Amazon Virtual Private Cloud User Guide*.

You can filter the results to return information only about security groups that match criteria you specify. For example, you could get information about groups whose name contains a particular string. You can specify multiple values for a filter. A security group must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the group's name contains a particular string, and the group gives permission to another security group with a different string in its name). The result includes information for a particular group only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.



Important

Filters are based on literal strings only. This is important to remember when you want to use filters to return only security groups with access allowed on a specific port number or numbers. For example, let's say you want to get all groups that have access on port 22. And let's say GroupA gives access on a range of ports using fromPort=20 and toPort=30. If you filter with ip-permission.from-port=22 or ip-permission.to-port=22 (or both), GroupA will not be returned in the results. It will only be returned in the results if you specify ip-permission.from-port=20 or ip-permission.to-port=30 (or both).

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
description	Description of the security group. Type: String
group-id	ID of the security group. Type: String
group-name	Name of the security group. Type: String
ip-permission.cidr	CIDR range that has been granted the permission. Type: String
ip-permission.from-port	Start of port range for the TCP and UDP protocols, or an ICMP type number. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
ip-permission.group-name	Name of security group that has been granted the permission. Type: String
ip-permission.protocol	IP protocol for the permission. Type: String Valid Values: tcp udp icmp or a protocol number
ip-permission.to-port	End of port range for the TCP and UDP protocols, or an ICMP code. Type: String
ip-permission.user-id	ID of AWS account that has been granted the permission. Type: String
owner-id	AWS account ID of the owner of the security group. Type: String
tag-key	Key of a tag assigned to the security group. Type: String
tag-value	Value of a tag assigned to the security group. Type: String

The short version of this command is ec2dgrp.

Syntax

```
ec2-describe-group [ec2_group_name_or_id | vpc_group_id ...] [[--filter
name=value] ...]
```

Options

Name	Description	Required
ec2_group_name_or_id Of vpc_group_id	For EC2 security groups: the name or ID of the group. For VPC security groups: the ID of the group. Type: String Default: Describes all groups you own, or only those otherwise specified. Example: websrv	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all security groups you own, or only those otherwise specified. Example:filter "group-name=*webserver*"	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable.
ECZ TRIVIIE REI	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("GROUP")
- · Security group ID
- · AWS account ID of security group owner
- · Security group name
- · Security group description
- Output type identifier ("PERMISSION")
- · AWS account ID of the group owner
- · Name of group granting permission
- Type of rule. Currently, only ALLOW rules are supported
- · Protocol to allow
- · Start of port range
- · End of port range
- · Source (for ingress rules) or destination (for egress rules)
- · Any tags assigned to the security group

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example returns information about a specific EC2 security group called StandardGroup.

```
PROMPT> ec2-describe-group StandardGroup

GROUP sg-1974436d 111122223333 StandardGroup A standard EC2 group

PERMISSION 111122223333 StandardGroup ALLOWS tcp 80 80

FROM CIDR 102.11.43.32/32 ingress
```

Example Request

This example returns information about a specific VPC security group with ID sg-eea7b782.

PROMPT> ec2-describe-group sg-eea7b782GROUP sg-eea7b782 111122223333							333
WebServerSG		web servers	vpc-5266953b				
PERMISSION		111122223333	WebServerSG	ALLOWS	6	80	80
FROM	CIDR	162.5.5.5/32	ingress				
PERMISSI	ON	111122223333	WebServerSG	ALLOWS	6	80	80
FROM	USER	111122223333	ID	sg-78a9b91	4	ingress	
PERMISSION		111122223333	WebServerSG	ALLOWS	6	443	443
FROM	USER	111122223333	ID	sg-78a9b91	4	ingress	
PERMISSION		111122223333	WebServerSG	ALLOWS	al	.1	
TO	CIDR	0.0.0.0/0	egress				
PERMISSION		111122223333	WebServerSG	ALLOWS	6	1433	1433
TO	USER	111122223333	ID	sg-80aebee	C	egress	

Example Request

This example returns information about all security groups that grant access over TCP specifically on port 22 from instances in either the app_server_group or database_group.

```
PROMPT> ec2-describe-group --filter "ip-permission.protocol=tcp"
--filter "ip-permission.from-port=22" --filter "ip-permission.to-port=22"
--filter "ip-permission.group-name=app_server_group" --filter "ip-permission.group-name=database_group"
```

- ec2-create-group (p. 70)
- ec2-authorize (p. 37)
- ec2-revoke (p. 452)
- ec2-delete-group (p. 133)

ec2-describe-image-attribute

Description

Returns information about an attribute of an AMI. You can get information about only one attribute per call.

The short version of this command is ec2dimatt.

Syntax

ec2-describe-image-attribute ami_id {-1 | -p | -B | --kernel | --ramdisk}

Options

Name	Description	Required
ami_id	The ID of the AMI for which an attribute will be described. Type: String Default: None Example: ami-4fa54026	Yes
-1, launch-permission	Describes the launch permissions of the AMI. Type: String Default: None Example: -I	No
-p,product-codes	Describes the product codes associated with the AMI. Each product code contains both a product code and a type. Type: String Default: None Example: -p	No
-B, block-device-mapping	Describes the mapping that defines native device names to use when exposing virtual devices. Type: String Default: None Example: -B	No
kernel	Describe the kernel ID the AMI will be launched with. Type: String Default: None Example:kernel	No
ramdisk	Describe the RAM disk ID the AMI will be launched with. Type: String Default: None Example:ramdisk	No

Option	Description		
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1		
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com		
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem		
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem		
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30		
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45		
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.		
-H,headers	Displays column headers in the output.		
show-empty-fields	Shows empty columns as (nil).		
hide-tags	Do not display tags for tagged resources.		
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.		
-?,help, -h	Displays Help.		
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -		

Output

The command returns a table that contains the following information:

- Attribute type identifier
- ID of the AMI
- · Information about the attribute

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example lists the launch permissions for the ami-2bb65342 AMI

```
PROMPT> ec2-describe-image-attribute ami-2bb65342 -1 launchPermission ami-2bb65342 group all launchPermission ami-2bb65342 userId 495219933132
```

Example Request

This example lists the product code for the ami-3bb65342 AMI.

```
PROMPT> ec2-describe-image-attribute ami-2bb65342 -p productCodes ami-3bb65342 productCode [marketplace: a1b2c3d4e5f6g7h8i9j10k11]
```

Example Request

This example describes the RAM disk for the ami-d5ed03bc AMI, with the --show-empty-fields option.

```
\label{eq:prompt} \mbox{PROMPT>} \ \ \mbox{ec2-describe-image-attribute} \ \ \mbox{ami-d5ed03bc} \ \ \mbox{--ramdisk} \ \mbox{--show-empty-fields} \\ \mbox{ramdisk} \ \mbox{ami-d5ed03bc} \ \ \ \mbox{(nil)} \ \ \mbox{ari-96c527ff}
```

- ec2-describe-images (p. 211)
- ec2-modify-image-attribute (p. 379)
- ec2-reset-image-attribute (p. 437)

ec2-describe-images

Description

Returns information about AMIs, AKIs, and ARIs. Images available to you include public images, private images that you own, and private images owned by other AWS accounts but for which you have explicit launch permissions.

Launch permissions fall into three categories:

Launch Permission	Description
public	The owner of the AMI granted launch permissions for the AMI to the all group. All AWS accounts have launch permissions for these AMIs.
explicit	The owner of the AMI granted launch permissions to a specific AWS account.
implicit	An AWS account has implicit launch permissions for all the AMIs it owns.

The list of AMIs returned can be modified by specifying AMI IDs, AMI owners, or AWS accounts with launch permissions. If no options are specified, Amazon EC2 returns all AMIs for which you have launch permissions.

If you specify one or more AMI IDs, only AMIs that have the specified IDs are returned. If you specify an invalid AMI ID, an error is returned. If you specify an AMI ID for which you do not have access, it will not be included in the returned results.

If you specify one or more AMI owners, only AMIs from the specified owners and to which you have access are returned. The results can include the account IDs of the specified owners <code>amazon</code> for AMIs owned by Amazon, <code>aws-marketplace</code> for AMIs owned by AWS Marketplace, or <code>self</code> for AMIs that you own.



Note

For an overview of the AWS Marketplace, go to https://aws.amazon.com/marketplace/help/200900000. For details on how to use the AWS Marketplace, see AWS Marketplace.

If you specify a list of users with launch permissions, only AMIs with launch permissions for those users are returned. You can specify account IDs (if you own the AMI(s)), self for AMIs for which you own or have explicit permissions, or all for public AMIs.



Note

Deregistered images are included in the returned results for an unspecified interval after deregistration.

You can filter the results to return information only about images that match criteria you specify. For example, you could get information only about images that use a certain kernel. You can specify multiple values for a filter (e.g., the image uses either kernel aki-1a2b3c4d or kernel aki-9b8c7d6f). An image must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the image uses a certain kernel, and uses an Amazon EBS volume as the root device). The result includes information for a particular image only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of $\mbox{\mbox{\mbox{$\gamma$}}} = \mbox{\mbox{$\gamma$}} = \$

The following table shows the available filters.

Filter Name	Description
architecture	Image architecture. Type: String Valid Values: i386 x86_64
block-device-mapping.delete-on-termination	Whether the Amazon EBS volume is deleted on instance termination. Type: Boolean
block-device-mapping.device-name	Device name (e.g., /dev/sdh) for an Amazon EBS volume mapped to the image. Type: String
block-device-mapping.snapshot-id	Snapshot ID for an Amazon EBS volume mapped to the image. Type: String
block-device-mapping.volume-size	Volume size for an Amazon EBS volume mapped to the image. Type: Integer
description	Description of the AMI (provided during image creation). Type: String
image-id	ID of the image. Type: String
image-type	Type of image. Type: String Valid Values: machine kernel ramdisk
is-public	Whether the image is public. Type: Boolean
kernel-id	Kernel ID. Type: String
manifest-location	Location of the image manifest. Type: String
name	Name of the AMI (provided during image creation). Type: String

Filter Name	Description
owner-alias	AWS account alias (e.g., amazon) Type: String
owner-id	AWS account ID of the image owner. Type: String
platform	To only list Windows-based AMIs, use windows. Otherwise leave blank. Type: String Valid Value: windows
product-code	Product code associated with the AMI. Type: String
product-code.type	Type of AMI product code. Type: String Valid Values: devpay marketplace
ramdisk-id	RAM disk ID. Type: String
root-device-name	Root device name of the AMI (e.g., /dev/sda1). Type: String
root-device-type	Root device type the AMI uses. Type: String Valid Values: ebs instance-store
state	State of the image. Type: String Valid Values: available pending failed
state-reason-code	Reason code for the state change. Type: String
state-reason-message	Message for the state change. Type: String
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y
virtualization-type	Virtualization type of the image. Type: String Valid Values: paravirtual hvm
hypervisor	Hypervisor type of the image. Type: String Valid Values: ovm xen

The short version of this command is **ec2dim**.

Syntax

```
ec2-describe-images [ami_id ...] [-a] [-o owner ...] [-x user_id ...] [[--filter name=value] ...]
```

Options

Name	Description	Required
ami_id	AMI IDs to describe. Type: String Default: Returns all AMIs. Example: ami-78a54011	No
-a,all	Describes all AMIs. Type: String Default: None Example: -a	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-o,owner owner	Returns AMIs owned by the specified owner. Multiple owner options can be specified. The IDs amazon, aws-marketplace, and self can be used to include AMIs owned by Amazon, AMIs owned by AWS Marketplace, or AMIs owned by you, respectively. Type: String Default: None Valid Values: amazon aws-marketplace self AWS account ID all Example: -o self	No
-x,executable-by user_id	Returns AMIs for which the specified user ID has explicit launch permissions. The user ID can be an AWS account ID, self to return AMIs for which the sender of the request has explicit launch permissions, or all to return AMIs with public launch permissions. Type: String Default: None Valid Values: all self AWS account ID Example: -x self	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: None Example:filter "tag-value=Production"	No

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- IMAGE identifier
- Image ID
- · Manifest location
- ID of the AWS account that registered the image (or "amazon")
- Image status (available, pending, failed)
- Image visibility (public or private)
- Product codes, if any, that are attached to the instance
- Image architecture (i386 or x86_64)
- Image type (machine, kernel, or ramdisk)
- ID of the kernel associated with the image (machine images only)
- ID of the RAM disk associated with the image (machine images only)

Amazon Elastic Compute Cloud CLI Reference Examples

- Type of root device (ebs or instance-store)
- Virtualization type (paravirtual or hvm)
- · BLOCKDEVICEMAPPING identifier for AMIs that use one or more Amazon EBS volumes
- · Any tags assigned to the image
- Hypervisor type (xen or ovm)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the ami-be3adfd7 AMI.

```
PROMPT> ec2-describe-images ami-be3adfd7

IMAGE ami-78a54011 amazon/getting-started-with-ebs-boot amazon available public i386 machine aki-al3667e4 ari-a33667e6 ebs paravirtual xen BLOCKDEVICEMAPPING /dev/sdal snap-8eaf78e6 15
```

Example Request

This example filters the results to display only the public Windows images with an x86 64 architecture.

```
PROMPT> ec2-describe-images --filter "is-public=true" --filter "architec ture=x86_64" --filter "platform=windows"

IMAGE ami-dd20c3b4 ec2-public-windows-images/Server2003r2-x86_64-Win-v1.07.manifest.xml amazon available public x86_64 machine windows instance-store hvm xen

IMAGE ami-0535d66c ec2-public-windows-images/SqlSvrStd2003r2-x86_64-Win-v1.07.manifest.xml amazon available public x86_64 machine windows instance-store hvm xen

...
```

Example Request

This example filters the results to display only images with an AWS Marketplace product code.

```
PROMPT> ec2-describe-images -F product-code.type=marketplace -o self

IMAGE ami-987654321 089818748305/My MP Image 123456789101

available private [marketplace: alb2c3d4e5f6g7h8i9j10k11] i386

machine ebs paravirtual xen

BLOCKDEVICEMAPPING /dev/sdal snap-2de0d457 15 true

BLOCKDEVICEMAPPING /dev/sdb snap-27e0d45d 100 true
```

Related Operations

- ec2-describe-instances (p. 222)
- ec2-describe-image-attribute (p. 208)

ec2-describe-instance-attribute

Description

Returns information about an attribute of an instance. Only one attribute can be specified per call.

The short version of this command is ec2dinatt.

Syntax

```
ec2-describe-instance-attribute instance_id { --block-device-mapping |
   -disable-api-termination | --group-id | --instance-initiated-shutdown-behavior
   | --instance-type | --kernel | --product-codes | --ramdisk | --root-device-name
   | | --source-dest-check | --user-data }
```

Options

Name	Description	Required
instance_id	The instance ID. Type: String Default: None Example: i-43a4412a	Yes
-b, block-device-m apping	Describes the mapping that defines native device names to use when exposing virtual devices. Type: String Default: None Example: -b	No
disable-api-termin ation	Whether the instance can be terminated using the EC2 API. A value of true means you can't terminate the instance using the API (i.e., the instance is "locked"); a value of false means you can. You must modify this attribute before you can terminate any "locked" instances using the API. Type: String Default: None Example:disable-api-termination	No
-g,group-id	Security groups the instance is in. Type: String Default: None Example: -g	No
-p,product-codes	Product codes associated with an instance. Each product code includes a product code and type. Type: String Default: None Example: -p	No

Name	Description	Required
instance-initiated -shutdown-behavior	If an instance shutdown is initiated, this determines whether the instance stops or terminates. Type: String Default: None Example:instance-initiated-shutdown-behavior	No
-t,instance-type	The instance type of the instance. Type: String Example: -t	No
kernel	Describes the ID of the kernel associated with the AMI. Type: String Default: None Example:kernel	No
ramdisk	Describes the ID of the RAM disk associated with the AMI. Type: String Default: None Example:ramdisk	No
root-device-name	The root device name (e.g., /dev/sda1). Type: String Default: None Example:root-device-name	No
source-dest-check	This attribute exists to enable a Network Address Translation (NAT) instance in a VPC to perform NAT. The attribute controls whether source/destination checking is enabled on the instance. A value of true means checking is enabled, and false means checking is disabled. The value must be false for the instance to perform NAT. For more information, go to NAT Instances in the Amazon Virtual Private Cloud User Guide. Type: String Default: None Example:source-dest-check	No
user-data	User data made available to the instance. Type: String Default: None Example:user-data	No

Common Options

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Attribute type identifier
- · ID of the instances
- · Attribute or attribute list item value
- For a block device mapping, the returned information includes the BLOCKDEVICE identifier, the device name, the volume ID, and the timestamp

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example lists the kernel ID of the i-10a64379 instance.

PROMPT> ec2-describe-instance-attribute i-10a64379 --kernel kernel i-10a64379 aki-f70657b2

Related Operations

- ec2-describe-instances (p. 222)
- ec2-modify-instance-attribute (p. 383)
- ec2-reset-instance-attribute (p. 440)

ec2-describe-instances

Description

Returns information about instances that you own.

If you specify one or more instance IDs, Amazon EC2 returns information for those instances. If you do not specify instance IDs, Amazon EC2 returns information for all relevant instances. If you specify an invalid instance ID, an error is returned. If you specify an instance that you do not own, it will not be included in the returned results.

Recently terminated instances might appear in the returned results. This interval is usually less than one hour.

You can filter the results to return information only about instances that match criteria you specify. For example, you could get information about only instances launched with a certain key pair. You can specify multiple values for a filter (e.g., the instance was launched with either key pair A or key pair B). An instance must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the instance was launched with a certain key pair and uses an Amazon EBS volume as the root device). An instance must match *all* the filters for it to be included in the results. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
architecture	Instance architecture. Type: String Valid Values: i386 x86_64
availability-zone	Instance's Availability Zone. Type: String
block-device-mapping.attach-time	Attach time for an Amazon EBS volume mapped to the instance, e.g., 2010-09-15T17:15:20.000Z Type: xsd:dateTime
block-device-mapping.delete-on-termination	Whether the Amazon EBS volume is deleted on instance termination. Type: Boolean
block-device-mapping.device-name	Device name (e.g., /dev/sdh) for an Amazon EBS volume mapped to the instance. Type: String
block-device-mapping.status	Status for an Amazon EBS volume mapped to the instance. Type: String Valid Values: attaching attached detaching detached

Filter Name	Description
block-device-mapping.volume-id	ID for an Amazon EBS volume mapped to the instance. Type: String
client-token	Idempotency token you provided when you launched the instance. Type: String
dns-name	Public DNS name of the instance. Type: String
group-id	ID of a EC2 security group the instance is in. This filter does not work for VPC security groups (instead, use instance.group-id). Type: String
group-name	Name of a EC2 security group the instance is in. This filter does not work for VPC security groups (instead, use instance.group-name). Type: String
image-id	ID of the image used to launch the instance. Type: String
instance-id	ID of the instance. Type: String
instance-lifecycle	Whether this is a Spot Instance. Type: String Valid Values: spot
instance-state-code	Code identifying the instance's state. A 16-bit unsigned integer. The high byte is an opaque internal value and should be ignored. The low byte is set based on the state represented Type: Integer Valid Values: 0 (pending) 16 (running) 32 (shutting-down) 48 (terminated) 64 (stopping) 80 (stopped)
instance-state-name	Instance's state. Type: String Valid Values: pending running shutting-down terminated stopping stopped
instance-type	Type of instance (e.g., m1.small). Type: String

Filter Name	Description
instance.group-id	ID of a VPC security group the instance is in. This filter does not work for EC2 security groups (instead, use group-id). Type: String
instance.group-name	Name of a VPC security group the instance is in. This filter does not work for EC2 security groups (instead, use group-name). Type: String
ip-address	Public IP address of the instance. Type: String
kernel-id	Kernel ID. Type: String
key-name	Name of the key pair used when the instance was launched. Type: String
launch-index	When launching multiple instances at once, this is the index for the instance in the launch group (e.g., 0, 1, 2, etc.). Type: String
launch-time	Time instance was launched, e.g., 2010-08-07T11:54:42.000Z. Type: xsd:dateTime
monitoring-state	Whether monitoring is enabled for the instance. Type: String Valid Values: disabled enabled
owner-id	AWS account ID of the instance owner. Type: String
placement-group-name	Name of the placement group the instance is in. Type: String
platform	Use windows if you have Windows based instances; otherwise, leave blank. Type: String Valid Value: windows
private-dns-name	Private DNS name of the instance. Type: String
private-ip-address	Private IP address of the instance. Type: String

Filter Name	Description
product-code	Product code associated with the AMI used to launch the instance. Type: String
product-code.type	Type of product code. Type: String Valid Values: devpay marketplace
ramdisk-id	RAM disk ID. Type: String
reason	Reason for the instance's current state (e.g., shows "User Initiated [date]" when you stop or terminate the instance). Similar to the state-reason-code filter. Type: String
requester-id	ID of the entity that launched the instance on your behalf (e.g., AWS Management Console, Auto Scaling, etc.) Type: String
reservation-id	ID of the instance's reservation. A reservation ID is created any time you launch an instance. A reservation ID has a one-to-one relationship with an instance launch request, but can be associated with more than one instance if you launch multiple instances using the same launch request. For example, if you launch one instance, you'll get one reservation ID. If you launch ten instances using the same launch request, you'll also get one reservation ID. Type: String
root-device-name	Root device name of the instance (e.g., /dev/sda1). Type: String
root-device-type	Root device type the instance uses. Type: String Valid Values: ebs instance-store
source-dest-check	Whether the instance performs source/destination checking. A value of true means checking is enabled, and false means checking is disabled. The value must be false for the instance to perform Network Address Translation (NAT) in your VPC. Type: Boolean
spot-instance-request-id	ID of the Spot Instance request. Type: String
state-reason-code	Reason code for the state change. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
state-reason-message	Message for the state change. Type: String
subnet-id	ID of the subnet the instance is in (if using Amazon Virtual Private Cloud). Type: String
Key of a tag assigned to the resource. independent of the tag-value filter. For if you use both the filter tag-key=Pur the filter tag-value=X, you get any reassigned both the tag key Purpose (rewhat the tag's value is), and the tag values of what the tag's key is). If list only resources where Purpose=X, stag: key filter later in this table. For more information about tags, go to in the Amazon Elastic Compute Cloud UType: String	
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y
virtualization-type	Virtualization type of the instance. Type: String Valid Values: paravirtual hvm
vpc-id	ID of the VPC the instance is in (if using Amazon Virtual Private Cloud). Type: String
hypervisor	Hypervisor type of the instance. Type: String Valid Values: ovm xen

The short version of this command is **ec2din**.

Syntax

```
ec2-describe-instances [instance_id ...] [[--filter name=value] ...]
```

Options

Name	Description	Required
instance_id	Instance IDs to describe. Type: String Default: Returns all instances, or only those otherwise specified. Example: i-15a4417c	
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value").	No
	Type: String	
	Default: Describes all instances you own or those you specify by ID.	
	Example:filter "tag-key=Production"	

Common Options

Option	Description	
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.	
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.	
	Example:region eu-west-1	
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.	
	Default: The EC2_URL environment variable, or	
	https://ec2.amazonaws.com if the environment variable is not set.	
	Example: -U https://ec2.amazonaws.com	
-K,private-key	The private key to use when constructing requests to Amazon EC2.	
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.	
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.	
	Default: The value of the EC2_CERT environment variable.	
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout	Specifies a connection timeout (in seconds).	
TIMEOUT	Example:connection-timeout 30	
request-timeout	Specifies a request timeout (in seconds).	
TIMEOUT	Example:request-timeout 45	

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f	
	2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- Output type identifier ("RESERVATION")
- · Reservation ID
- · AWS account ID
- · Name of each security group the instance is in (for instances not running in a VPC)
- Output type identifier ("INSTANCE")
- Instance ID for each running instance
- · AMI ID of the image on which the instance is based
- · Public DNS name associated with the instance. This is only present for instances in the running state.
- Private DNS name associated with the instance. This is only present for instances in the running state.
- · Instance state
- Key name. If a key was associated with the instance at launch, its name will appear.
- · AMI launch index
- · Product codes attached to the instance
- · Instance type
- · Instance launch time
- Availability Zone
- Kernel ID
- RAM disk ID
- · Monitoring state
- Public IP address
- · Private IP address
- The tenancy of the instance (if the instance is running within a VPC). An instance with a tenancy of dedicated runs on single-tenant hardware.

Amazon Elastic Compute Cloud CLI Reference Examples

- Subnet ID (if the instance is running in a VPC)
- VPC ID (if the instance is running in a VPC)
- Type of root device (ebs or instance-store)
- · Placement group the cluster instance is in
- Virtualization type (paravirtual or hvm)
- IDs of each security group the instance is in (for instances running in a VPC)
- Any tags assigned to the instance
- Hypervisor type (xen or ovm)
- BLOCKDEVICE identifier for each Amazon EBS volume the instance is using, along with the device name, the volume ID, and the timestamp

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the current state of the instances owned by your AWS account.

```
PROMPT> ec2-describe-instances
RESERVATION r-705d5818 111122223333 default INSTANCE i-53cb5b38 ami-b232d0db ec2-184-73-10-99.compute-
1.amazonaws.com domU-12-31-39-00-A5-11.compute-1.internal
                                                                                          running
              ml.small 2010-04-07T12:49:28+0000 us-east-la aki-94c527fd
     ari-96c527ff monitoring-disabled 184.73.10.99
10.254.170.223
                                       ebs paravirtual xen
BLOCKDEVICE /dev/sda1 vol-a36bc4ca 2010-04-07T12:28:01.000Z
BLOCKDEVICE /dev/sdb vol-a16bc4c8 2010-04-07T12:28:01.000Z
RESERVATION r-705d5818 111122223333 default
INSTANCE i-39c85852 ami-b232d0db terminated
gsg-keypair 0 ml.small 2010-04-07T12:21:21+0000
us-east-la aki-94c527fd ari-96c527ff monitoring-
disabled
                                                     ebs paravirtual xen
RESERVATION r-9284alfa 111122223333 default INSTANCE i-996fc0f2 ami-3c47a355 ec2-184-73-195-182.compute-
1.amazonaws.com domU-12-31-39-09-25-62.compute-1.internal running keypair 0 m1.small 2010-03-17T13:17:41+0000 us-east-1a
0 m1.small 2010-03-17T13:17:41+0000 us-east-1a aki-a71cf9ce ari-a51cf9cc monitoring-disabled 184.73.195.182
10.210.42.144
                                             instance-store paravirtual xen
```

Example Request

This example filters the results to display only the m1.small or m1.large instances that have an Amazon EBS volume that is both attached and set to delete on termination.

```
PROMPT> ec2-describe-instances --filter "instance-type=m1.small" --filter "instance-type=m1.large" --filter "block-device-mapping.status=attached" --filter "block-device-mapping.status=attached" --filter "block-device-mapping.delete-on-termination=true"

RESERVATION r-bc7e30d7 111122223333 default
INSTANCE i-c7cd56ad ami-b232d0db ec2-72-44-52-124.compute-1.amazonaws.com domU-12-31-39-01-76-06.compute-1.internal running
```

Amazon Elastic Compute Cloud CLI Reference Related Operations

GSG_Keypair 0 ml.small 2010-08-17T01:15:16+0000 us-east-lb aki-94c527fd ari-96c527ff monitoring-disabled 72.44.52.124 10.255.121.240 ebs paravirtual xen

BLOCKDEVICE /dev/sda1 vol-a482c1cd 2010-08-17T01:15:26.000Z

Related Operations

- ec2-run-instances (p. 457)
- ec2-stop-instances (p. 469)
- ec2-start-instances (p. 466)
- ec2-terminate-instances (p. 472)

ec2-describe-instance-status

Description

Describes the status of an Amazon EC2 instance. Instance status has two main components:

- System Status reports impaired functionality that stems from issues related to the systems that support
 an instance, such as such as hardware failures and network connectivity problems. The
 DescribeInstanceStatus response elements report such problems as impaired reachability.
- Instance Status reports impaired functionality that arises from problems internal to the instance. The DescribeInstanceStatus response elements report such problems as impaired reachability.

Instance status provides information about the types of scheduled events for an instance that may require vour attention:

- Scheduled Reboot: When Amazon EC2 determines that an instance must be rebooted, the instance's status will return one of two event codes: system-reboot or instance-reboot. System reboot commonly occurs if certain maintenance or upgrade operations require a reboot of the underlying host that supports an instance. Instance reboot commonly occurs if the instance must be rebooted, rather than the underlying host. Rebooting events include a scheduled start and end time.
- Scheduled System Maintenance: When Amazon EC2 determines that an instance requires maintenance which requires power or network impact, the instance's status will return an event code called system-maintenance. System-maintenance is either network maintenance or power maintenance. For network maintenance, your instance will experience a brief loss of network connectivity. For power maintenance, your instance will be unavailable for a brief period and then rebooted. System maintenance events include a scheduled start and end time. You will also be notified by email if one of your instances is set for system maintenance. The email message indicates when your instance is scheduled for maintenance.
- Scheduled Retirement: When Amazon EC2 determines that an instance must be shut down, the
 instance's status will return an event code called instance-retirement. Retirement commonly
 occurs when the underlying host is degraded and must be replaced. Retirement events include a
 scheduled start and end time. You will also be notified by email if one of your instances is set to retiring.
 The email message indicates when your instance will be permanently retired.

When your instance is retired, it will either be terminated (if its root device type is the instance-store) or stopped (if its root device type is an EBS volume). Instances stopped due to retirement will not be restarted, but you can do so manually. You can also avoid retirement of EBS-backed instances by manually restarting your instance when its event code is instance-retirement. This ensures that your instance is started on a different underlying host.

DescribeInstanceStatus returns information only for instances in the running state.

You can filter the results to return information only about instances that match criteria you specify. For example, you could get information about instances in a specific Availability Zone. You can specify multiple values for a filter (e.g., more than one Availability Zone). An instance must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the instance is in a specific Availability Zone and its status is set to retiring). An instance must match *all* the filters for it to be included in the results. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of $\mbox{\mbox{\mbox{$\gamma$}}} = \mbox{\mbox{$\gamma$}} = \$

The following table shows the available filters.

Filter Name	Description	
availability-zone	Instance's Availability Zone. Type: String	
event.code	Code identifying the type of event. Type: String Valid Values: instance-reboot system-reboot system-maintenance instance-retirement	
event.description	A description of the event. Type: String	
event.not-after	The latest end time for the scheduled event. Type: dateType	
event.not-before	The earliest start time for the scheduled event. Type: dateType	
instance-state-name	Intended state of the instance, e.g., running Type: String	
instance-state-code	Code for intended state of the instance, e.g., 16. Type: Integer	
system-status.status	The instance's system status. Type: String Valid Values: ok impaired initializing insufficient-data not-applicable	
system-status.reachability	Filters on system status where the name is reachability. Type: String Valid Values: passed failed initializing insufficient-data	
instance-status.status	The instance's status. Type: String Valid Values: ok impaired initializing insufficient-data not-applicable	
instance-status.reachability	Filters on instance status where the name is reachability. Type: String Valid Values: passed failed initializing insufficient-data	

Amazon Elastic Compute Cloud CLI Reference Syntax

The short version of this command is ec2dins.

Syntax

```
ec2-describe-instance-status [instance_id ...] [-I, --hide-healthy ...] [-A, --include-all-instances ...] [[--filter name=value] ...]
```

Options

Name	Description	Required
instance_id	Instance IDs to describe. Type: String Default: Returns all instances, or only those otherwise specified. Example: i-15a4417c	No
-I,hide-healthy	Hide instances where all status checks pass.	No
-A, include-all-instances	List all running and non-running instances.	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all instances you own or those you specify by ID. Example:filter "system-status.status=impaired"	No

Common Options

Option	Description	
region REGION	Overrides the Region specified in the EC2_URL environment variable are the URL specified by the -U option.	
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.	
	Example:region eu-west-1	
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com	

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description		
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem		
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem		
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30		
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45		
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.		
-H,headers	Displays column headers in the output.		
show-empty-fields	Shows empty columns as (nil).		
hide-tags	Do not display tags for tagged resources.		
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.		
-?,help, -h	Displays Help.		
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -		

Output

The command returns a table that contains the following information:

- Instance ID for each running instance
- Availability Zone of each instance
- Instance state
- Instance state code
- System Status
- Instance Status

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the current state of the instances owned by your AWS account.

PROMPT> ec2-des	cribe-instance-s	tatus		
INSTANCE	i-6d9eaa0c	us-east-1d	running 16	running ok
active	1-009eaauc	us-east-1u	running 10	ruming ok
SYSTEMSTATUS	reachability	passed		
INSTANCESTATUS	-	-		
INSTANCESTATUS	i-bf1d7cdc	passed us-east-1d	running 16	running ok
active	1-blid/ede	us-east-Id	running 16	ruming ok
SYSTEMSTATUS	reachability	passed		
INSTANCESTATUS	reachability	passed		
INSTANCE	i-bd1d7cde	us-east-1d	running 16	running ok
active				
SYSTEMSTATUS	reachability	passed		
INSTANCESTATUS	reachability	passed		
INSTANCE	i-831d7ce0	us-east-1d	running 16	running ok
retiring	2012-01-02T10			
SYSTEMSTATUS	reachability	passed		
INSTANCESTATUS	reachability	passed		
EVENT instanc	e-stop 2012-01	-02T10:00:00+00	00	The instance
is running on d	egraded hardware			
	i-6de0fb0e	us-east-1d	running 16	running ok
retiring	2012-02-10T08	:30:00+0000		
SYSTEMSTATUS	reachability	passed		
	reachability	-		
	e-retiring 2012		0+0000	The instance
	degraded hardwar			
	i-5cf7793e		running 16	running ok
retiring	2012-01-03T00	:00:00+0000		
	reachability	-		
	reachability			
	e-stop 2012-01		00	The instance
is running on d	egraded hardware			

Related Operations

• ec2-report-instance-status (p. 426)

ec2-describe-internet-gateways

Description

Gives you information about your Internet gateways. You can filter the results to return information only about Internet gateways that match criteria you specify. For example, you could get information only about gateways with particular tags. The Internet gateway must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the Internet gateway is attached to a particular VPC and is tagged with a particular value). The result includes information for a particular Internet gateway only if the gateway matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description		
attachment.state	Current state of the attachment between the gateway and the VPC. Returned only if a VPC is attached. Type: String Valid Value: available		
attachment.vpc-id	ID of an attached VPC. Type: String		
internet-gateway-id	ID of the Internet gateway. Type: String		
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String		
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String		
tag: <i>key</i>	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y		

Amazon Elastic Compute Cloud CLI Reference Syntax

For more information about Amazon Virtual Private Cloud and Internet gateways, go to the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2digw.

Syntax

ec2-describe-internet-gateways [internet_gateway_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
internet_gateway_id	Internet gateway IDs to describe. Type: String Default: Returns all Internet gateways, or only those otherwise specified. Example: igw-15a4417c	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all Internet gateways you own or those you specify by ID. Example:filter "tag-key=Production"	No

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("INTERNETGATEWAY")
- · Internet Gateway ID
- Attachment type identifier ("ATTACHMENT")
- VPC ID (if the gateway is attached to a VPC)
- State of the attachment (attaching, attached, detaching, detached)
- Any tags assigned to the Internet gateway

Examples

Example Request

This example describes your Internet gateways.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-describe-internet-gateways

INTERNETGATEWAY igw-dfa045b6

ATTACHMENT vpc-d9a045b0 available

Related Operations

- ec2-create-internet-gateway (p. 77)
- ec2-delete-internet-gateway (p. 136)
- ec2-detach-internet-gateway (p. 25)
- ec2-detach-internet-gateway (p. 334)

ec2-describe-keypairs

Description

Returns information about key pairs available to you. If you specify key pairs, information about those key pairs is returned. Otherwise, information for all your key pairs is returned.

You can filter the results to return information only about key pairs that match criteria you specify. For example, you could filter the results to return only the key pairs whose names include the string Dave. You can specify multiple values for a filter. A key pair must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the key pair name includes the string Dave, and the fingerprint equals a certain value). The result includes information for a particular key pair only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
fingerprint	Fingerprint of the key pair. Type: String
key-name	Name of the key pair. Type: String

The short version of this command is ec2dkey.

Syntax

ec2-describe-keypairs [keypair_name ...] [[--filter name=value] ...]

Options

Name	Description	Required
keypair_name	Name of the key pair to describe. Type: String Default: Describes all key pairs you own, or only those otherwise specified. Example: gsg-keypair	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all key pairs you own, or only those otherwise specified. Example:filter "tag-name=*Dave*"	No

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable.
ECZ TRIVIIE REI	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- · KEYPAIR identifier
- · Key pair name
- · Private key fingerprint

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the keypair with name gsg-keypair.

Example Request

This example filters the results to display only key pairs whose names include the string Dave.

```
PROMPT> ec2-describe-keypairs --filter "key-name=*Dave*"
```

Related Operations

- ec2-create-keypair (p. 79)
- ec2-import-keypair (p. 367)
- ec2-delete-keypair (p. 139)

ec2-describe-network-acls

Description

Gives you information about the network ACLs in your VPC.

You can filter the results to return information only about ACLs that match criteria you specify. For example, you could get information only for the ACL associated with a particular subnet. The ACL must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the ACL is associated with a particular subnet and has an egress entry that denies traffic to a particular port). The result includes information for a particular ACL only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
association.association-id	ID of an association ID for the ACL. Type: String
association.network-acl-id	ID of the network ACL involved in the association. Type: String
association.subnet-id	ID of the subnet involved in the association. Type: String
default	Whether the ACL is the default network ACL in the VPC. Type: Boolean
entry.cidr	CIDR range specified in the entry. Type: String
entry.egress	Whether the entry applies to egress traffic. Type: Boolean
entry.icmp.code	The ICMP code specified in the entry, if any. Type: Integer
entry.icmp.type	The ICMP type specified in the entry, if any. Type: Integer
entry.port-range.from	Start of port range specified in the entry. Type: Integer
entry.port-range.to	End of port range specified in the entry. Type: Integer

Filter Name	Description
entry.protocol	Protocol specified in the entry. Type: String Valid Values: tcp udp icmp or a protocol number
entry.rule-action	Whether the entry allows or denies the matching traffic. Type: String Valid Values: allow deny
entry.rule-number	Number of an entry (i.e., rule) in the ACL's set of entries. Type: Integer
network-acl-id	ID of the network ACL. Type: String
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y
vpc-id	The ID of the VPC the network ACL is in. Type: String

For more information about Amazon Virtual Private Cloud and network ACLs, go to Network ACLs in the Amazon Virtual Private Cloud User Guide.

The short version of this command is **ec2dnacl**.

Syntax

ec2-describe-network-acls [network_acl_id...] [[--filter name=value] ...]

Options

Name	Description	Required
network_acl_id	Network ACL IDs to describe. Type: String Default: Describes all network ACLs in the VPC, or only those otherwise specified. Example: acl-7aa34613	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all network ACLs in the VPC, or only those otherwise specified. Example:filter "tag-key=Production"	No

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("NETWORKACL, ENTRY, ASSOCIATION")
- The network ACL's ID, the VPC ID the ACL is in, and whether the ACL is the default ACL in the VPC
- The entries (i.e., rules) contained in the ACL
- Associations between the ACL and any subnets
- · Any tags assigned to the ACL

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes all the network ACLs in your VPC.

NETWORKACL acl-5566953c vpc-5266953b default ENTRY egress 100 allow 0.0.0.0/0 all ENTRY egress 32767 deny 0.0.0.0/0 all	PROMPT>	ec2-desc	cribe-ne	twork-a	cls		
	NETWORK	ACL	acl-556	6953c	vpc-5266953b	default	
ENTRY egress 32767 deny 0.0.0.0/0 all	ENTRY	egress	100	allow	0.0.0.0/0	all	
	ENTRY	egress	32767	deny	0.0.0.0/0	all	
ENTRY ingress 100 allow 0.0.0.0/0 all	ENTRY	ingress	100	allow	0.0.0.0/0	all	

Amazon Elastic Compute Cloud CLI Reference Related Operations

ENTRY NETWORK	ingress ACL	32767 acl-5d6	deny 59634	0.0.0.0/ vpc-5266		all		
ENTRY	egress	110	allow	0.0.0.0	0	6	49152	65535
ENTRY	egress	32767	deny	0.0.0.0	0	all		
ENTRY	ingress	110	allow	0.0.0.0	0	6	80	80
ENTRY	ingress	120	allow	0.0.0.0	′0	6	443	443
ENTRY	ingress	32767	deny	0.0.0.0	′ 0	all		
ASSOCIA	TION	aclasso	c-5c65963	35	subnet-f	ff669	9596	
ASSOCIA	TION	aclasso	c-c26596a	ab	subnet-f	0669	9599	

Related Operations

- ec2-create-network-acl (p. 82)
- ec2-delete-network-acl (p. 141)
- ec2-replace-network-acl-association (p. 413)
- ec2-create-network-acl-entry (p. 85)
- ec2-delete-network-acl-entry (p. 143)
- ec2-replace-network-acl-entry (p. 416)

ec2-describe-network-interfaces

Description

Gives you information about one or more network interfaces. The NETWORKINTERFACE parameters, if specified, are the IDs of the network interfaces to describe.

The short version of this command is ec2dnic.

You can filter the results to return information only about network interfaces that match criteria you specify. For example, you could get information about only network interfaces launched in a specific Availability Zone. You can specify multiple values for a filter (e.g., more than one Availability Zone). A network interface must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the network interface is in a specific Availability Zone, and its owner ID matches a specific owner ID). A network interface must match all the filters for it to be included in the results. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of $\mbox{\mbox{\mbox{$\gamma$}}} = \mbox{\mbox{$\gamma$}} = \$

The following table shows the available filters.

Filter Name	Description
association.association-id	The association ID returned when the network interface was associated with an IP address. Type: String
association.allocation-id	The allocation ID that AWS returned when you allocated the Elastic IP address for your network interface. Type: String
association.ip-owner-id	The owner of the Elastic IP address associated with the network interface. Type: String
association.public-ip	The address of the Elastic IP address bound to the network interface. Type: String
attachment.attachment-id	The ID of the interface attachment. Type: String
attachment.instance-id	The ID of the instance to which the network interface is attached. Type: String
attachment.instance-owner-id	The owner ID of the instance to which the network interface is attached. Type: String

Amazon Elastic Compute Cloud CLI Reference Description

Filter Name	Description	
attachment.device-index	The device index to which the network interface is attached. Type: Integer	
attachment.status	The status of the attachment. Type: String Valid values: attaching attached detaching detached	
attachment.attach.time	The time that the network interface was attached to an instance. Type: Date	
attachment.delete-on-termination	Indicates whether or not the attachment is deleted when an instance is terminated. Type: Boolean	
availability-zone	Availability Zone of the network interface. Type: String	
description	The description of the network interface. Type: String	
group-id	ID of a VPC security group associated with the network interface. Type: String	
group-name	Name of a VPC security group associated with the network interface. Type: String	
mac-address	The MAC address of the network interface. Type: String	
network-interface-id	The ID of the network interface. Type: String	
owner-id	The AWS account ID of the network interface owner. Type: String	
private-ip-address	The private IP address of the network interface. Type: String	
private-dns-name	The private DNS name of the network interface. Type: String	
requester-id	ID of the entity that launched the instance on your behalf (e.g., AWS Management Console, Auto Scaling, etc.). Type: String	

Amazon Elastic Compute Cloud CLI Reference Description

Filter Name	Description
requester-managed	Indicates whether the network interface is being managed by an AWS service (e.g., AWS Management Console, Auto Scaling, etc). Type: Boolean
source-dest-check	Whether the network interface performs source/destination checking. A value of true means checking is enabled, and false means checking is disabled. The value must be false for the network interface to perform Network Address Translation (NAT) in your VPC. Type: Boolean
status	The status of the network interface. If the network interface is not attached to an instance, the status shows available; if a network interface is attached to an instance the status shows in-use. Type: String Valid values: available in-use
subnet-id	The ID of the subnet that the network interface is in. Type: String
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description	
vpc-id	The ID of the VPC that the network interface is in.	
	Type: String	

Syntax

ec2-describe-network-interfaces --filter FILTER

Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: None Example: -F "description=My ENI"	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command lists information about the specified network interfaces.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example lists all network interfaces that you own.

```
PROMPT> ec2-describe-network-interfaces

NETWORKINTERFACE eni-dc7f84b5 subnet-8404ffed vpc-8004ffe9

us-east-1b 089818748305 false in-use 02:1a:81:a9:56:27

10.0.1.187 true

GROUP sg-8ealbce2 default

GROUP sg-94albcf8 ACK

ATTACHMENT i-640a3c17 eni-attach-dc34d1b5 attached

false

ASSOCIATION

NETWORKINTERFACE eni-b35da6da My ENI subnet-8404ffed vpc-
8004ffe9 us-east-1b 089818748305 false in-use
02:1a:81:b6:63:60 10.0.1.129 true
```

Amazon Elastic Compute Cloud CLI Reference Related Operations

```
GROUP sg-8ealbce2 default
ATTACHMENT i-640a3c17 eni-attach-673dd80e attached
false
ASSOCIATION
```

This example lists specified network interfaces.

```
PROMPT> ec2-describe-network-interfaces -F "description=My ENI"

NETWORKINTERFACE eni-b35da6da My ENI subnet-8404ffed vpc-
8004ffe9 us-east-1b 089818748305 false in-use
02:1a:81:b6:63:60 10.0.1.129 true

GROUP sg-8ealbce2 default

ATTACHMENT i-640a3c17 eni-attach-673dd80e attached

false
ASSOCIATION
```

- ec2-create-network-interface (p. 89)
- ec2-delete-network-interface (p. 146)
- ec2-describe-network-interface-attribute (p. 254)
- ec2-attach-network-interface (p. 28)
- ec2-detach-network-interface (p. 337)
- ec2-modify-network-interface-attribute (p. 387)
- ec2-reset-network-interface-attribute (p. 443)

ec2-describe-network-interface-attribute

Description

Describes a network interface attribute. Only one attribute can be specified per call.

The short version of this command is ec2dnicatt.

Syntax

ec2-describe-network-interface-attribute NETWORKINTERFACE -d, --description --source-dest-check --group-set -a, --attachment

Options

Name	Description	Required
-d,description	Get the description of the network interface. Type: String	Yes
source-dest-check	Gets whether to enable the source/dest check on traffic through this network interface. Type: String	Yes
group-set	Get the security groups for the network interface. Type: String	Yes
-a,attachment	Get the attachment (if any) of the network interface. Type: String	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	\it{URL} is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-Н,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns the specified network interface attribute.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example lists the network interface's description.

```
PROMPT> ec2-describe-network-interface-attribute eni-b35da6da -d
NETWORKINTERFACE eni-b35da6da description
DESCRIPTION My ENI
```

This example enables source/destination checking on traffic across the specified network interface.

Amazon Elastic Compute Cloud CLI Reference Related Operations

 ${\tt PROMPT} > {\tt ec2-describe-network-interface-attribute\ eni-b35da6da\ --source-dest-check}$

NETWORKINTERFACE eni-b35da6da sourceDestCheck

SOURCEDESTCHECK true

This example lists the security groups for the specified network interface.

PROMPT> ec2-describe-network-interface-attribute eni-b35da6da --group-set

NETWORKINTERFACE eni-b35da6da group

GROUP sg-8ealbce2 default

- ec2-create-network-interface (p. 89)
- ec2-delete-network-interface (p. 146)
- ec2-describe-network-interfaces (p. 248)
- ec2-attach-network-interface (p. 28)
- ec2-detach-network-interface (p. 337)
- ec2-modify-network-interface-attribute (p. 387)
- ec2-reset-network-interface-attribute (p. 443)

ec2-describe-placement-groups

Description

Returns information about placement groups in your account. For more information about placement groups and cluster instances, go to Using Cluster Instances in the *Amazon Elastic Compute Cloud User Guide*.

You can filter the results to return information only about placement groups that match criteria you specify. For example, you could filter the results to return only the groups whose state is deleted. You can specify multiple values for a filter. A placement group must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the group's state is deleted and the name includes the string Project). The result includes information for a particular group only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
group-name	Name of the placement group. Type: String
state	Placement group's state. Type: String Valid Values: pending available deleting deleted
strategy	Placement group's strategy. Type: String Valid Value: cluster

The short version of this command is **ec2dpgrp**.

ec2-describe-placement-groups [group_name] [[--filter name=value] ...]

Options

Name	Description	Required
group_name	The name of the placement group. Type: String Default: Describes all placement groups you own, or only those otherwise specified. Example: XYZ-cluster	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all placement groups you own, or only those otherwise specified. Example:filter "group-name=*Project*"	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable.
ECZ TRIVIIE REI	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the following information:

- PLACEMENTGROUP identifier
- · Placement group name
- · Placement group strategy
- Placement group status (e.g., pending, available, deleting, deleted)

Examples

Example Request

This example describes all your placement groups.

```
PROMPT> ec2-describe-placement-groups
PLACEMENTGROUP XYZ-cluster cluster available
PLACEMENTGROUP ABC-cluster cluster available
```

Example Request

This example filters the results to display only placement groups that include the string Project in the name.

```
PROMPT> ec2-describe-placement-groups --filter "group-name=*Project*"
```

- ec2-create-placement-group (p. 92)
- ec2-delete-placement-group (p. 148)

ec2-describe-regions

Description

Describes Regions that are currently available to the account.

You can use filters with this call just as you can with other "describe" calls.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
endpoint	Region's endpoint (e.g., ec2.us-east-1.amazonaws.com). Type: String
region-name	Name of the Region. Type: String

The short version of this command is ec2dre.

Syntax

ec2-describe-regions [region...] [[--filter name=value] ...]

Options

Name	Description	Required
region	Name of a Region. Type: String Default: Describes all Regions, or only those otherwise specified. Example: eu-west-1	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all Regions, or those otherwise specified. Example:filter "endpoint=*ap*"	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- REGION identifier
- · Region name
- · Service endpoint to which you make requests

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example displays information about all the Regions that are available to the account.

```
PROMPT> ec2-describe-regions

REGION ap-northeast-1 ec2.ap-northeast-1.amazonaws.com

REGION ap-southeast-1 ec2.ap-southeast-1.amazonaws.com

..
```

Example Request

This example displays information about all Regions that have the string ap in the endpoint.

```
PROMPT> ec2-describe-regions --filter "endpoint=*ap*"
REGION ap-southeast-1 ec2.ap-southeast-1.amazonaws.com
```

- ec2-describe-availability-zones (p. 182)
- ec2-run-instances (p. 457)

ec2-describe-reserved-instances

Description

Describes Reserved Instances that you purchased.

Starting with the 2011-11-01 API version, AWS expanded its offering for Amazon EC2 Reserved Instances to address a range of projected instance use. There are three types of Reserved Instances based on customer utilization levels: *Heavy Utilization, Medium Utilization*, and *Light Utilization*. The Medium Utilization offering type is equivalent to the Reserved Instance offering available before API version 2011-11-01. If you are using tools that predate the 2011-11-01 API version, you only have access to the *Medium Utilization* Reserved Instance offering type.

For more information about Reserved Instances, see Reserved Instances in the *Amazon Elastic Compute Cloud User Guide*.

You can filter the results to return information about Reserved Instances that matches criteria you specify. For example, you could get information about Reserved Instances in a particular Availability Zone. Or you can specify multiple values for a filter. A Reserved Instance must match at least one of the specified values for it to be included in the results.

You can specify multiple filters as well. For example, you could specify that your Reserved Instance must be in a particular Availability Zone and must be tagged with a particular value. The result includes information for a particular instance only if it matches *all* of your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
availability-zone	Availability Zone where the Reserved Instance can be used. Type: String
duration	Duration of the Reserved Instance (one year or three years), in seconds. Type: xs:long Valid Values: 31536000 94608000
fixed-price	Purchase price of the Reserved Instance (e.g., 9800.0) Type: xs:double
instance-type	Instance type on which the Reserved Instance can be used. Type: String
product-description	Reserved Instance description. Type: String Valid Values: Linux/UNIX Linux/UNIX (Amazon VPC) Windows Windows (Amazon VPC)
reserved-instances-id	Reserved Instance's ID. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
start	Time the Reserved Instance purchase request was placed, e.g., 2010-08-07T11:54:42.000Z. Type: xsd:dateTime
state	State of the Reserved Instance. Type: String Valid Values: pending-payment active payment-failed retired
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: <i>key</i>	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y
usage-price	Usage price of the Reserved Instance, per hour (e.g., 0.84) Type: xs:double

The short version of this command is ec2dri.

Syntax

ec2-describe-reserved-instances [reservation_id ...] [[--filter name=value]
...]

Options

Name	Description	Required
reservation_id	IDs of the Reserved Instance to describe. Type: String Default: Describes all your Reserved Instances, or only those otherwise specified. Example: 4b2293b4-5813-4cc8-9ce3-1957fc1dcfc8	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value").	No
	Type: String Default: Describes all Reserved Instances you own, or only those otherwise specified.	
	Example:filter "tag-key=Production"	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- RESERVEDINSTANCES identifier
- ID of the Reserved Instance
- The Availability Zone in which the Reserved Instance can be used
- · The instance type
- The Reserved Instance description (Linux/UNIX, Windows, Linux/UNIX (Amazon VPC), or Windows (Amazon VPC))
- The duration of the Reserved Instance
- The usage price of the Reserved Instance, per hour
- The purchase price of the Reserved Instance
- The number of Reserved Instances purchased
- The state of the Reserved Instance purchase (payment-pending, active, payment-failed)
- · Any tags assigned to the Reserved Instance
- The tenancy of the reserved instance purchased. An instance with a tenancy of dedicated runs on single-tenant hardware.
- · The instance offering type
- The currency of the Reserved Instance purchased. It's specified using ISO 4217 standard code (e.g., USD, JPY).

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes Reserved Instances owned by your account.

Example Request

This example filters the results to display only one-year, m1.small Linux/UNIX Reserved Instances. If you want Linux/UNIX Reserved Instances specifically for use with Amazon VPC, set the product descripton to Linux/UNIX (Amazon VPC).

```
PROMPT> ec2-describe-reserved-instances --filter "duration=31536000" --filter "instance-type=m1.small" --filter "product-description=Linux/UNIX"
```

- ec2-purchase-reserved-instances-offering (p. 399)
- ec2-describe-reserved-instances-offerings (p. 268)

ec2-describe-reserved-instances-offerings

Description

Describes Reserved Instance offerings that are available for purchase. With Amazon EC2 Reserved Instances, you purchase the right to launch Amazon EC2 instances for a period of time (without getting insufficient capacity errors) and pay a lower usage rate for the actual time used.

Starting with the 2011-11-01 API version, AWS expanded its offering of Amazon EC2 Reserved Instances to address a range of projected instance use. There are three types of Reserved Instances based on customer utilization levels: Heavy Utilization, Medium Utilization, and Light Utilization. You determine the type of the Reserved Instance offering by including the optional offering-type parameter when calling ec2-describe-reserved-instances-offerings. The Medium Utilization offering type is equivalent to the Reserved Instance offering available before API version 2011-11-01. If you are using tools that predate the 2011-11-01 API version, ec2-describe-reserved-instances-offerings will only list information about the Medium Utilization Reserved Instance offering type.

For more information about Reserved Instances, go to Reserved Instances in the *Amazon Elastic Compute Cloud User Guide*.

Our policy is to provide filters for all *describe* calls so you can limit the results to your specified criteria. Therefore, you can use filters to limit the results when describing Reserved Instances offerings, even though you can use the regular request parameters to do something similar.

For example, you could use the regular request parameters or a filter to get the offerings for a particular instance type. You can specify multiple request parameters or multiple filters (e.g., limit the results to the m2.xlarge instance type, and only for Windows instances). The result includes information for a particular offering only if it matches *all* your request parameters or filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
availability-zone	Availability Zone where the Reserved Instance can be used. Type: String
duration	Duration of the Reserved Instance (e.g., one year or three years), in seconds. Type: xs:long Valid Values: 31536000 94608000
fixed-price	Purchase price of the Reserved Instance (e.g., 9800.0) Type: xs:double
instance-type	Instance type on which the Reserved Instance can be used. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
product-description	Reserved Instance description. Type: String Valid Values: Linux/UNIX Linux/UNIX (Amazon VPC) Windows Windows (Amazon VPC)
reserved-instances-offering-id	Reserved Instances offering ID. Type: String
usage-price	Usage price of the Reserved Instance, per hour (e.g., 0.84) Type: xs:double

The short version of this command is **ec2drio**.

Syntax

```
ec2-describe-reserved-instances-offerings [offering_id ...] [--type instance_type ...] [--offering-type offering] [--availability-zone zone ...] [--description description ...] [[--filter name=value] ...] [--tenancy]
```

Options

Name	Description	Required
offering_id	ID of a Reserved Instance offering. Type: String Default: None Example: 438012d3-4967-4ba9-aa40-cbb1d13235e0	No
-t,type instance_type	The instance type on which the Reserved Instance can be used. Type: String Default: None Example: -t m1.small	No
offering-type offering-type	The Reserved Instance offering type. Type: String Default: None Valid Values: "Heavy Utilization" "Medium Utilization" "Light Utilization" Example:offering-type "Medium Utilization"	No
-z, availability-zone zone	The Availability Zone in which the Reserved Instance can be used. Type: String Default: None Example: -z us-east-1a	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-d,description description	The Reserved Instance description. Instances that include (Amazon VPC) in the description are for use with Amazon VPC. Type: String Default: None Valid Values: Linux/UNIX Linux/UNIX (Amazon VPC) Windows Windows (Amazon VPC) Example: -d Linux/UNIX	No
-F,filter FILTER name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all Reserved Instances offerings, or those otherwise specified. Example:filter "instance-type=m1.small"	No
tenancy TENANCY	Specifies the tenancy of the Reserved Instance offering. A Reserved Instance with tenancy of dedicated will run on single-tenant hardware and can only be launched within a VPC. Type: String Default: default Valid Values: default dedicated	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- OFFERING identifier
- · ID of the offer
- · The instance type
- The Availability Zone in which the Reserved Instance can be used
- The duration of the Reserved Instance
- The purchase price of the Reserved Instance
- The usage price of the Reserved Instance, per hour
- The Reserved Instance description (Linux/UNIX, Windows, Linux/UNIX (Amazon VPC), or Windows (Amazon VPC))
- The tenancy of the Reserved Instance.
- The currency of the Reserved Instance. It's specified using ISO 4217 standard (e.g., USD, JPY). At this time, the only supported currency is USD.
- The instance offering type

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes available Reserved Instance offerings in the us-east-1 Availability Zone.

```
PROMPT> ec2-describe-reserved-instances-offerings --region us-east-1 -H
Type ReservedInstancesOfferingId AvailabilityZone InstanceType Duration Fixed
Price UsagePrice ProductDescription Currency InstanceTenancy OfferingType
OFFERING 248e7b75-c83a-48c1-bcf7-b7f03e9c43fe us-east-1b c1.medium 3y 700.0
0.06 Linux/UNIX (Amazon VPC) USD default Medium Utilization
OFFERING 3a98bf7d-05c0-40d0-a173-81a3986ba568 us-east-1b c1.medium 3y 700.0
0.125 Windows USD default Medium Utilization
OFFERING 4b2293b4-ff40-4ala-9fef-lf12ad37a711 us-east-1b c1.medium 3y 700.0
0.06 Linux/UNIX USD default Medium Utilization
...
OFFERING 4b2293b4-b3c5-4ad1-b7f5-b7832ecd6d63 us-east-1d m1.xlarge 3y 3600.0
0.0 Linux/UNIX USD default Heavy Utilization
...
OFFERING 649fd0c8-efd6-4800-a7f3-0a9f1c3ea2c1 us-east-1d m2.xlarge 1y 1000.0
0.5 Linux/UNIX USD default Light Utilization
...
```

Example Request

This example filters the results to display only one-year, m1.small or m1.large Linux/UNIX Reserved Instances. If you want Linux/UNIX Reserved Instances specifically for use with Amazon VPC, set the product descripton to Linux/UNIX (Amazon VPC).

```
PROMPT> ec2-describe-reserved-instances-offerings --filter "duration=31536000"
 --filter "instance-type=m1.small" --filter "instance-type=m1.large" --filter
"product-description=Linux/UNIX" -H
Type ReservedInstancesOfferingId AvailabilityZone InstanceType Duration Fixed
Price UsagePrice ProductDescription Currency InstanceTenancy OfferingType
OFFERING 649fd0c8-7d25-4e81-959e-0e1bc9410a87 us-east-1c ml.large 1y
0.12 Linux/UNIX USD default Medium Utilization
OFFERING 438012d3-278f-4ad6-9cb9-e23188dafcf5 us-east-1b m1.large 1y 910.0
0.12 Linux/UNIX USD default Medium Utilization
OFFERING 4b2293b4-20f5-4b3d-9969-46341f34b03c us-east-1d m1.large 1y 910.0
0.12 Linux/UNIX USD default Medium Utilization
OFFERING 3a98bf7d-abc6-47a0-870e-e245903ddf6a us-east-la m1.large ly 910.0
0.12 Linux/UNIX USD default Medium Utilization
OFFERING ceb6a579-757c-474b-b09b-52c84b605767 us-east-1c m1.small 1y 227.5
0.03 Linux/UNIX USD default Medium Utilization
OFFERING 60dcfab3-06bb-4b68-9503-53bf89823b5e us-east-1b m1.small 1y 227.5
0.03 Linux/UNIX USD default Medium Utilization
OFFERING 438012d3-80c7-42c6-9396-a209c58607f9 us-east-1d m1.small 1y 227.5
0.03 Linux/UNIX USD default Medium Utilization
OFFERING 649fd0c8-5d76-4881-a522-fe5224c10fcc us-east-1a m1.small 1y 227.5
0.03 Linux/UNIX USD default Medium Utilization
```

Amazon Elastic Compute Cloud CLI Reference Related Operations

- ec2-purchase-reserved-instances-offering (p. 399)
- ec2-describe-reserved-instances (p. 263)

ec2-describe-route-tables

Description

Gives you information about your route tables. You can filter the results to return information only about tables that match criteria you specify. For example, you could get information only about a table associated with a particular subnet. You can specify multiple values for the filter. The table must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the table has a particular route, and is associated with a particular subnet). The result includes information for a particular table only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
association.route-table-association-id	ID of an association ID for the route table. Type: String
association.route-table-id	ID of the route table involved in the association. Type: String
association.subnet-id	ID of the subnet involved in the association. Type: String
association.main	Whether the route table is the main route table in the VPC. Type: Boolean
route-table-id	ID of the route table. Type: String
route.destination-cidr-block	CIDR range specified in a route in the table. Type: String
route.gateway-id	ID of a gateway specified in a route in the table. Type: String
route.instance-id	ID of an instance specified in a route in the table. Type: String
route.state	State of a route in the route table. The blackhole state indicates that the route's target isn't available (e.g., the specified gateway isn't attached to the VPC, the specified NAT instance has been terminated, etc.). Type: String Valid Values: active blackhole

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify:filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify:filter tag:Purpose=Xfilter tag:Purpose=Y
vpc-id	The ID of the VPC the route table is in. Type: String

For more information about Amazon Virtual Private Cloud and route tables, go to Route Tables in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is **ec2drtb**.

Syntax

ec2-describe-route-tables [route_table_id...]

Options

Name	Description	Required
route_table_id	IDs of the route tables to describe. Type: String Default: Returns all route tables, or only those otherwise specified. Example: rtb-7aa34613	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value").	No
	Type: String Default: Describes all route tables in the VPC, or only those otherwise specified. Example:filter "tag-key=Production"	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on
	the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ROUTETABLE)
- The route table's ID
- . ID of the VPC the route table is in
- Output type identifier ("ROUTE")
- The route's forwarding target (gateway or NAT instance)
- The route's state (active or blackhole). Blackhole means the route's forwarding target isn't available (e.g., the gateway is detached, the NAT instance is terminated)
- The route's destination CIDR range
- Output type identifier ("ASSOCIATION")
- The association ID representing the association of the route table to a subnet (or to the VPC if it's the main route table)
- · Any tags assigned to the route table
- · Network interfaces associated with the route.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the route table with ID rtb-6aa34603.

```
PROMPT> ec2-describe-route-tables rtb-6aa34603
ROUTETABLE rtb-6aa34603 vpc-9ea045f7
ROUTE local active 10.0.0.0/22
ROUTE igw-68a34601 active 0.0.0.0/0
ASSOCIATION rtbassoc-61a34608 subnet-92a045fb
```

- ec2-associate-route-table (p. 22)
- ec2-disassociate-route-table (p. 348)
- ec2-delete-route-table (p. 153)
- ec2-replace-route-table-association (p. 423)

ec2-describe-snapshot-attribute

Description

Returns information about an attribute of a snapshot. You can get information about only one attribute per call.

The short version of this command is ec2dsnapatt.

Syntax

ec2-describe-snapshot-attribute snapshot_id attribute

Options

Name	Description	Required
snapshot_id	The ID of the Amazon EBS snapshot. Type: String Default: None Example: snap-78a54011	Yes
-c, create-volume- permission	Describes the create volume permissions of the snapshot. Type: String Default: None Example: -c	Conditional
-p,product-codes	A list of product codes associated with the snapshot. Each product code contains a product code and a type. Type: String Default: None Example: -p	Conditional

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Attribute type identifier
- ID of the snapshot
- Attribute value

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes permissions for the snap-7ddb6e14 snapshot.

PROMPT> ec2-describe-snapshot-attribute snap-7ddb6e14 -c createVolumePermission snap-7ddb6e14 userId 123456789012

- ec2-modify-snapshot-attribute (p. 391)
- ec2-describe-snapshots (p. 282)
- ec2-reset-snapshot-attribute (p. 445)
- ec2-create-snapshot (p. 101)

ec2-describe-snapshots

Description

Returns information about Amazon EBS snapshots available to you. Snapshots available to you include public snapshots available for any AWS account to launch, private snapshots you own, and private snapshots owned by another AWS account but for which you've been given explicit create volume permissions.

The create volume permissions fall into 3 categories:

Permission	Description
public	The owner of the snapshot granted create volume permissions for the snapshot to the all group. All AWS accounts have create volume permissions for these snapshots.
explicit	The owner of the snapshot granted create volume permissions to a specific AWS account.
implicit	An AWS account has implicit create volume permissions for all snapshots it owns.

The list of snapshots returned can be modified by specifying snapshot IDs, snapshot owners, or AWS accounts with create volume permissions. If no options are specified, Amazon EC2 returns all snapshots for which you have create volume permissions.

If you specify one or more snapshot IDs, only snapshots that have the specified IDs are returned. If you specify an invalid snapshot ID, an error is returned. If you specify a snapshot ID for which you do not have access, it will not be included in the returned results.

If you specify one or more snapshot owners, only snapshots from the specified owners and for which you have access are returned. The results can include the AWS account IDs of the specified owners, amazon for snapshots owned by Amazon, or self for snapshots that you own.

If you specify a list of restorable users, only snapshots with create snapshot permissions for those users are returned. You can specify AWS account IDs (if you own the snapshot(s)), self for snapshots for which you own or have explicit permissions, or all for public snapshots.



Tip

Use the --help option to view examples of ways to use this command.

You can filter the results to return information only about snapshots that match criteria you specify. For example, you could get information about snapshots whose status is pending. You can specify multiple values for a filter (e.g., the snapshot's status is either pending or completed). A snapshot must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the snapshot's status is pending, and it is tagged with a particular value). The result includes information for a particular snapshot only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of $\mbox{\mbox{\mbox{$\gamma$}}} = \mbox{\mbox{$\gamma$}} = \$

Amazon Elastic Compute Cloud CLI Reference Description

The following table shows the available filters.

Filter Name	Description
description	Description of the snapshot. Type: String
owner-alias	The AWS account alias (e.g., amazon) that owns the snapshot. Type: String
owner-id	ID of the AWS account that owns the snapshot. Type: String
progress	The progress of the snapshot, in percentage (e.g., 80%). Type: String
snapshot-id	Snapshot ID. Type: String
start-time	Time stamp when the snapshot was initiated. Type: xsd:dateTime
status	Status of the snapshot. Type: String Valid Values: pending completed error
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: <i>key</i>	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y
volume-id	ID of the volume the snapshot is for. Type: String
volume-size	The size of the volume, in GiB (e.g., 20). Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

The short version of this command is ec2dsnap.

Syntax

```
ec2-describe-snapshots [snapshot_id ...] [-a] [-o owner ...] [-r user_id]
[[--filter name=value] ...]
```

Options

Name	Description	Required
snapshot_id	The ID of the Amazon EBS snapshot. Type: String Default: Describes snapshots for which you have launch permissions. Example: snap-78a54011	No
-a,all owner	Describe all snapshots (public, private or shared) to which you have access. Type: String Default: None Example: -a	No
-o,owner owner	Returns snapshots owned by the specified owner. Multiple owners can be specified. Type: String Valid Values: self amazon AWS Account ID Default: None Example: -o AKIAIOSFODNN7EXAMPLE	No
-r,restorable-by user_id	ID of an AWS account that can create volumes from the snapshot. Type: String Valid Values: self all an AWS account ID Default: None Example: -r self	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all snapshots you own, or only those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- SNAPSHOT identifier
- · ID of the snapshot
- · ID of the volume
- Snapshot state (e.g., pending, completed, error)
- · Time stamp when snapshot initiated
- · Percentage of completion
- · ID of the owner
- · Size of the volume
- Description
- · Any tags assigned to the snapshot

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes snapshot snap-7ddb6e14.

```
PROMPT> ec2-describe-snapshots snap-7ddb6e14
SNAPSHOT snap-7ddb6e14 vol-9539dcfc completed 2009-09-15T22:06:15.000Z 100%
111122223333 1 Daily Backup
```

Example Request

This example filters the results to display only snapshots with the pending status, and that are also tagged with a value that includes the string db..

```
PROMPT> ec2-describe-snapshots --filter "status=pending" --filter "tag-value=*db_*"

SNAPSHOT snap-1a2b3c4d vol-8875daef pending 2010-07-29T04:12:01.000Z 30%

111122223333 15 demo_db_14_backup
```

- ec2-create-snapshot (p. 101)
- ec2-delete-snapshot (p. 155)

ec2-describe-spot-datafeed-subscription

Description

Describes the datafeed for Spot Instances. For more information about Spot Instances, go to Spot Instances in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2dsds.

Syntax

ec2-describe-spot-datafeed-subscription

Options

This command does not have any options.

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- SPOTDATAFEEDSUBSCRPITION identifier
- · AWS account ID of the owner
- · Amazon S3 bucket where the data feed is located
- · Prefix for the data feed files
- State of the data feed (Active or Inactive)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the datafeed for the account.

PROMPT> ec2-describe-spot-datafeed-subscription
SPOTDATAFEEDSUBSCRIPTION 111122223333 myawsbucket spotdata
Active

- ec2-create-spot-datafeed-subscription (p. 104)
- ec2-delete-spot-datafeed-subscription (p. 158)

ec2-describe-spot-instance-requests

Description

Describes the Spot Instance requests that belong to your account. Spot Instances are instances that Amazon EC2 starts on your behalf when the maximum price that you specify exceeds the current Spot Price. Amazon EC2 periodically sets the Spot Price based on available Spot Instance capacity and current Spot Instance requests. For more information about Spot Instances, go to Spot Instances in the Amazon Elastic Compute Cloud User Guide.

You can filter the results to return information only about Spot Instance requests that match criteria you specify. For example, you could get information about requests where the Spot Price you specified is a certain value (however, you can't use greater than or less than comparison, but you can use * and ? wildcards). You can specify multiple values for a filter. A Spot Instance request must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the Spot Price is equal to a particular value, and the instance type is m1.small). The result includes information for a particular request only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of \maxson\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
availability-zone-group	Availability Zone group. If you specify the same Availability Zone group for all Spot Instance requests, all Spot Instances are launched in the same Availability Zone. Type: String
create-time	Time stamp when the Spot Instance request was created. Type: String
fault-code	Fault code related to the request. Type: String
fault-message	Fault message related to the request. Type: String
instance-id	ID of the instance that fulfilled the request. Type: String
launch-group	Spot Instance launch group. Launch groups are Spot Instances that launch together and terminate together. Type: String
launch.block-device-mapping.delete- on-termination	Whether an Amazon EBS volume mapped to the instance is deleted on instance termination. Type: Boolean

Amazon Elastic Compute Cloud CLI Reference Description

Filter Name	Description
launch.block-device-mapping.device-name	Device name (e.g., /dev/sdh) for an Amazon EBS volume mapped to the instance. Type: String
launch.block-device-mapping.snapshot-id	ID for a snapshot mapped to the instance. Type: String
launch.block-device-mapping.volume-size	Size of an Amazon EBS volume mapped to the instance (in GiB). Type: String
launch.group-id	A security group the instance is in. Type: String
launch.image-id	The AMI ID. Type: String
launch.instance-type	Type of instance (e.g., m1.small). Type: String
launch.kernel-id	Kernel ID. Type: String
launch.key-name	Name of the key pair the instance launched with. Type: String
launch.monitoring-enabled	Whether monitoring is enabled for the Spot Instance. Type: Boolean
launch.ramdisk-id	RAM disk ID. Type: String
network-interface.network-interface-id	The ID of the network interface. Type: String
network-interface.device-index	The index of the device for the network interface attachment on the instance. Type: Integer
network-interface.subnet-id	The ID of the subnet that the instance is in. Type: String
network-interface.description	Description of the network interface. Type: String
network-interface.private-ip-address	IP address of the network interface. Type: String
network-interface.delete-on-termination	Whether the network interface is deleted when the instance is terminated. Type: Boolean

Amazon Elastic Compute Cloud CLI Reference Description

Filter Name	Description
network-interface.group-id	The ID of the security group associated with the network interface. Type: String
product-description	Product description associated with the instance. Type: String Valid Values: Linux/UNIX Windows
spot-instance-request-id	Spot Instance request ID. Type: String
spot-price	Maximum hourly price for any Spot Instance launched to fulfill the request. Type: String
state	State of the Spot Instance request. Type: String Valid Values: active cancelled open closed failed
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify:filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify:filter tag:Purpose=Xfilter tag:Purpose=Y
type	Type of Spot Instance request. Type: String Valid Values: one-time persistent

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
launched-availability-zone	The Availability Zone in which the bid is launched. Type: String Valid Values: us-east-la, etc.
valid-from	Start date of the request. Type: xsd:dateTime
valid-until	End date of the request. Type: xsd:dateTime

The short version of this command is ec2dsir.

Syntax

ec2-describe-spot-instance-requests [request_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
request_id	Specifies the ID of the Spot Instance request. Type: String Default: None Example: sir-8456a32b	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all Spot Instance requests you own, or those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Request ID
- Spot Price
- Type
- State (active, open, closed, cancelled, failed)
- Fault
- Valid From

Amazon Elastic Compute Cloud CLI Reference Examples

- Valid Until
- Launch Group
- · Availability Zone Group
- · Launched Availability Zone
- · Launch Specification
- · Create Time
- Description
- · Any tags assigned to the request

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example returns information about a specific Spot Instance request.

```
PROMPT> ec2-describe-spot-instance-requests -H sir-64b4ee11
```

Type SpotInstanceRequestID Price RequestType ProductDescription State Created ValidFrom ValidUntil LaunchGroup AZGroup InstanceID ImageID In stanceType KeyName Groups AvailabilityZone KernelID RamdiskID Monitored SubnetID LaunchedAvailabilityZone SPOTINSTANCEREQUEST sir-64b4ee11 0.100000 one-time Linux/UNIX open 2011-

0.100000 one-time Linux/UNIX open 2011-08-30T11:02:16-0800 2011-08-30T12:00:00-0800 test testAZ ami-8clfece5 tl.micro SpotTest sg-c20e77ab us-east-la monitoring-enabled us-east-la

Example Request

This example describes all persistent Spot Instance requests that have resulted in the launch of at least one m1.small instance, that has been fulfilled in the us-east-1a Availability Zone, and that also has monitoring enabled.

PROMPT> ec2-describe-spot-instance-requests --filter "type=persistent" --filter "launch.instance-type=m1.small" --filter "launch.monitoring-enabled=true"

- ec2-request-spot-instances (p. 430)
- ec2-cancel-spot-instance-requests (p. 55)
- ec2-describe-spot-price-history (p. 295)

ec2-describe-spot-price-history

Description

Describes the Spot Price history. Spot Instances are instances that Amazon EC2 starts on your behalf when the maximum price that you specify exceeds the current Spot Price. Amazon EC2 periodically sets the Spot Price based on available Spot Instance capacity and current Spot Instance requests. For more information about Spot Instances, go to Spot Instances in the *Amazon Elastic Compute Cloud User Guide*.

When you use the availability-zone option, this command describes the price history for the specified Availability Zone with the most recent set of prices listed first. If you don't specify an Availability Zone, the command returns the prices across all Availability Zones, starting with the most recent set. However, if you use this command with versions of the API earlier than the 2011-05-15 version, this command returns the lowest price across the Region for the given time period. The prices returned will be listed in chronological order from the oldest to the most recent.



Note

Our policy is to provide filters for all "describe" calls so you can limit the results to your specified criteria. Therefore, you can use filters to limit the results when describing Spot Price histories, even though you can use the regular request parameters to do something similar.

For example, you could use the regular request parameters or a filter to get the history for a particular instance type. You can specify multiple request parameters or multiple filters (e.g., limit the results to the m2.xlarge instance type, and only for Windows instances). The result includes information for a particular price history only if it matches *all* your request parameters or filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
instance-type	Type of instance (e.g., m1.small). Type: String
product-description	Product description for the Spot Price. Type: String Valid Values: Linux/UNIX SUSE Linux Windows Linux/UNIX (Amazon VPC) SUSE Linux (Amazon VPC) Windows (Amazon VPC)
spot-price	Spot Price. The value must match exactly (or use wildcards; greater than or less than comparison is not supported). Type: String
timestamp	Timestamp of the Spot Price history, e.g., 2010-08-16T05:06:11.000Z. You can use wildcards (* and ?). Greater than or less than comparison is not supported. Type: xsd:dateTime

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
availability-zone	The Availability Zone for which prices should be returned.
	Type: String

The short version of this command is ec2dsph.

Syntax

ec2-describe-spot-price-history [--start-time timestamp] [--end-time timestamp] [--instance-type type] [--product-description description] [[--filter name=value] ...] [--availability-zone zone]

Options

Name	Description	Required
-s,start-time timestamp	Start date and time of the Spot Instance price history data. Type: DateTime Default: None Example: -s 2009-12-01T11:51:50.000Z	No
-e,end-time timestamp	End date and time of the Spot Instance price history data. Type: DateTime Default: None Example: -e 2009-12-31T11:51:50.000Z	No
-t,instance-type	Specifies the instance type to return. Type: String Valid Values: m1.small m1.large m1.xlarge c1.medium c1.xlarge m2.xlarge m2.2xlarge m2.4xlarge t1.micro Default: None Example: -t m1.large	No
-d, product-description description	Filters the results by basic product description. Type: String Valid Values: Linux/UNIX SUSE Linux Windows Linux/UNIX (Amazon VPC) SUSE Linux (Amazon VPC) Windows (Amazon VPC) Default: None Example: -d Linux/UNIX	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Lists all available history information, or just that information otherwise specified. Example:filter "product-description=Linux/UNIX"	No
-a,	The Availability Zone for which you want to get the	No
availability-zone	price history	
zone	Type: String	
	Default: None	
	Example: us-east-1a	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("SPOTINSTANCEPRICE")
- Price
- · Date and time
- · Instance type
- Product description (e.g., Linux/UNIX)
- Availability Zone (e.g., us-east-1a)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example returns Spot Price history for m1.small instances for a particular day in May.

```
PROMPT> ec2-describe-spot-price-history -H --instance-type ml.xlarge --start-time 2011-05-06T07:08:09 --end-time 2011-05-06T08:09:10

Type Price Timestamp InstanceType ProductDescription AvailabilityZone

SPOTINSTANCEPRICE 0.417000 2011-05-06T05:54:03-0800 ml.xlarge Windows us-east-1b

SPOTINSTANCEPRICE 0.417000 2011-05-06T05:54:03-0800 ml.xlarge Windows us-east-1d

SPOTINSTANCEPRICE 0.417000 2011-05-06T05:54:03-0800 ml.xlarge Windows us-east-1a...
```

Amazon Elastic Compute Cloud CLI Reference Related Operations

The following example uses filters instead of request options to get the same results.

```
PROMPT> ec2-describe-spot-price-history -H --instance-type m1.xlarge --start-time 2011-05-06T07:08:09 --end-time 2011-05-06T08:09:10 --product-description 'Linux/UNIX'

Type Price Timestamp InstanceType ProductDescription AvailabilityZone
SPOTINSTANCEPRICE 0.234000 2011-05-06T05:08:03-0800 m1.xlarge Linux/UNIX us-east-1b
SPOTINSTANCEPRICE 0.234000 2011-05-06T05:08:03-0800 m1.xlarge Linux/UNIX us-east-1c
SPOTINSTANCEPRICE 0.234000 2011-05-06T05:08:03-0800 m1.xlarge Linux/UNIX us-east-1d
...
```

- ec2-describe-spot-instance-requests (p. 289)
- ec2-request-spot-instances (p. 430)
- ec2-cancel-spot-instance-requests (p. 55)

ec2-describe-subnets

Description

Gives you information about your subnets. You can filter the results to return information only about subnets that match criteria you specify. For example, you could get information only about subnets whose state is available. You can specify multiple values for the filter. The subnet must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the subnet is in a particular VPC, and the subnet's state is available). The result includes information for a particular subnet only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
availability-zone	The Availability Zone the subnet is in. Type: String
available-ip-address -count	Number of IP addresses in the subnet that are available. Type: String
cidr	The CIDR block of the subnet. The CIDR block you specify must exactly match the subnet's CIDR block for information to be returned for the subnet. Type: String Constraints: Must contain the slash followed by one or two digits (e.g., /28)
state	The state of the subnet. Type: String Valid Values: pending available
subnet-id	The ID of the subnet. Type: String
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
tag:key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y
vpc-id	The ID of the VPC the subnet is in. Type: String

The short version of this command is **ec2dsubnet**.

Syntax

```
ec2-describe-subnets [ subnet_id ... ] [[--filter name=value] ...]
```

Options

Name	Description	Required
subnet_id	A subnet ID. You can specify more than one in the request. Type: String Default: Returns information about all your subnets. Example: subnet-9d4a7b6c	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all subnets you own, or only those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("SUBNET")
- Subnet ID
- Current state of the subnet (pending or available)
- . ID of the VPC the subnet is in
- CIDR block assigned to the subnet
- Number of IP addresses in the subnet that are available
- · Availability Zone the subnet is in
- · Any tags assigned to the subnet

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example gives a description of two subnets with IDs subnet-9d4a7b6c and subnet-6e7f829e.

```
PROMPT> ec2-describe-subnets subnet-9d4a7b6c subnet-6e7f829e

SUBNET subnet-9d4a7b6c available vpc-la2b3c4d 10.0.1.0/24 250
us-east-la

SUBNET subnet-6e7f829e available vpc-la2b3c4d 10.0.0.0/24 250
us-east-la
```

Example Request

This example uses filters to give a description of any subnet you own that is in the VPC with ID vpc-1a2b3c4d or vpc-6e7f8a92, and whose state is available. The response indicates that the VPC with ID vpc-6e7f8a92 doesn't have any subnets that match.

```
PROMPT> ec2-describe-subnets --filter "vpc-id=vpc-la2b3c4d" --filter "vpc-id=vpc-6e7f8a92" --filter "state=available"

SUBNET subnet-9d4a7b6c available vpc-la2b3c4d 10.0.1.0/24 250 us-east-la

SUBNET subnet-6e7f829e available vpc-la2b3c4d 10.0.0.0/24 250 us-east-la
```

- ec2-create-subnet (p. 107)
- ec2-delete-subnet (p. 160)

ec2-describe-tags

Description

Lists your tags. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide.

You can use filters to limit the results when describing tags. For example, you could get only the tags for a particular resource type. You can specify multiple values for a filter. A tag must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., limit the results to a specific resource type, and get only tags with values that contain the string database). The result includes information for a particular tag only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
key	Tag key. Type: String
resource-id	Resource ID. Type: String
resource-type	Resource type. Type: String Valid Values: customer-gateway dhcp-options image instance internet-gateway network-acl reserved-instances route-table security-group snapshot spot-instances-request subnet volume vpc vpn-connection vpn-gateway
value	Tag value. Type: String

The short version of this command is ec2dtag.

Syntax

ec2-describe-tags [[--filter name=value] ...]

Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all tags you own, or only those otherwise specified. Example:filter "resource-type=instance"	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on
	the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- · TAG identifier
- · Resource type
- Resource ID
- · Tag key
- Tag value

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes all the tags belonging to your account.

```
PROMPT> ec2-describe-tags

TAG ami-1a2b3c4d image webserver

TAG ami-1a2b3c4d image stack Production

TAG i-5f4e3d2a instance webserver

TAG i-5f4e3d2a instance stack Production

TAG i-12345678 instance database_server

TAG i-12345678 instance stack Test
```

Example Request

This example describes the tags for the AMI with ID ami-1a2b3c4d.

```
PROMPT> ec2-describe-tags --filter "resource-id=ami-1a2b3c4d"

TAG ami-1a2b3c4d image webserver

TAG ami-1a2b3c4d image stack Production
```

Example Request

This example describes the tags for all your instances.

```
PROMPT> ec2-describe-tags --filter "resource-type=instance"

TAG i-5f4e3d2a instance webserver

TAG i-5f4e3d2a instance stack Production

TAG i-12345678 instance database_server

TAG i-12345678 instance stack Test
```

Example Request

This example describes the tags for all your instances tagged with the name webserver.

```
PROMPT> ec2-describe-tags --filter "resource-type=instance" --filter "key=web server"

TAG i-5f4e3d2a instance webserver
```

Example Request

This example describes the tags for all your instances tagged with either stack=Test or stack=Production.

```
PROMPT> ec2-describe-tags --filter "resource-type=instance" --filter "key=stack" --filter "value=Test" --filter "value=Production"

TAG i-5f4e3d2a instance stack Production

TAG i-12345678 instance stack Test
```

Example Request

This example describes the tags for all your instances tagged with Purpose=[empty string].

```
PROMPT> ec2-describe-tags --filter "resource-type=instance" --filter "key=Pur pose" --filter "value="
```

- ec2-create-tags (p. 110)
- ec2-delete-tags (p. 162)

ec2-describe-volumes

Description

Describes your Amazon EBS volumes. For more information about Amazon EBS, go to Using Amazon Elastic Block Store in the *Amazon Elastic Compute Cloud User Guide*.

You can filter the results to return information only about volumes that match criteria you specify. For example, you could get information about volumes whose status is available. You can specify multiple values for a filter (e.g., the volume's status is either available or in-use). A volume must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the volume's status is available, and it is tagged with a particular value). The result includes information for a particular volume only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
attachment.attach-time	Time stamp when the attachment initiated. Type: xsd:dateTime
attachment.delete-on-termination	Whether the volume will be deleted on instance termination. Type: Boolean
attachment.device	How the volume is exposed to the instance (e.g., /dev/sda1). Type: String
attachment.instance-id	ID of the instance the volume is attached to. Type: String
attachment.status	Attachment state. Type: String Valid Values: attaching attached detaching detached
availability-zone	Availability Zone in which the volume was created. Type: String
create-time	Time stamp when the volume was created. Type: xsd:dateTime
size	Size of the volume, in GiB (e.g., 20). Type: String
snapshot-id	Snapshot from which the volume was created. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
status	Status of the volume. Type: String Valid Values: creating available in-use deleting deleted error
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify:filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify:filter tag:Purpose=Xfilter tag:Purpose=Y
volume-id	Volume ID. Type: String

The short version of this command is **ec2dvol**.

Syntax

ec2-describe-volumes [volume_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
volume_id	The ID of the volume to list. Type: String Default: Describes all volumes you own, or only those otherwise specified. Example: vol-4282672b	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all volumes you own, or those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable.
ECZ TRIVIIE REI	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- VOLUME identifier
- · ID of the volume
- · Size of the volume, in GiBs
- · Snapshot from which the volume was created, if applicable
- · Availability Zone in which the volume launched
- Volume state (e.g., creating, available, in-use, deleting, deleted, error)
- · Time stamp when volume creation initiated
- · Any tags assigned to the volume

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes all volumes associated with your account.

```
PROMPT> ec2-describe-volumes

VOLUME vol-4d826724 800 us-east-la in-use 2008-02-14T00:00:00+0000

ATTACHMENT vol-4d826724 i-6058a509 /dev/sdh attached 2008-02-14T00:00:17+0000

VOLUME vol-50957039 13 us-east-la available 2008-02-091T00:00:00+0000

VOLUME vol-6682670f 1 us-east-la in-use 2008-02-11T12:00:00+0000

ATTACHMENT vol-6682670f i-69a54000 /dev/sdh attached 2008-02-11T13:56:00+0000

VOLUME vol-932685fa 15 snap-a08912c9 us-east-la in-use 2010-03-

31T12:17:07+0000

ATTACHMENT vol-932685fa i-71ca481a /dev/sda1 attached 2010-04-
06T14:16:00+0000

VOLUME vol-8975dae0 15 snap-a08912c9 us-east-lc deleting 2010-04-
07T14:59:27+0000

VOLUME vol-35be105c 10 us-east-la available 2010-04-08T07:57:15+0000
```

Amazon Elastic Compute Cloud CLI Reference Related Operations

Example Request

This example describes all volumes that are both attached to instance i-1a2b3c4d and also set to delete when the instance terminates.

PROMPT> ec2-describe-volumes --filter "attachment.instance-id=i-la2b3c4d" --filter "attachment.delete-on-termination=true"

- ec2-create-snapshot (p. 101)
- ec2-delete-snapshot (p. 155)

ec2-describe-volume-attribute

Description

Describes attribute of the volume.

Currently, volumes have two attributes: auto-enable-io and product-codes.

The short version of this command is ec2dvolatt.

Syntax

ec2-describe-volume-attribute volume_id ...
<replace>attribute</replace>

Options

Name	Description	Required
volume_id	The ID of the volume. Type: String Example: vol-4282672b	Yes
Attribute	The instance attribute to get. Type: String Default: None Valid values: [auto-enable-io product-codes] or [-a -p] Example:auto-enable-io Example: -p	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- ID of the volume
- Information on the attribute

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example describes the autoEnablelo attribute of the volume vol-999999.

Amazon Elastic Compute Cloud CLI Reference Related Operations

```
PROMPT> ec2-describe-volume-attribute vol-999999 -a

VolumeId Attribute
vol-999999 autoEnableIo
AUTO-ENABLE-IO true
```

Example Request

This example describes the productCodes attribute of the volume vol-777777.

```
PROMPT> ec2-describe-volume-attribute vol-777777 -p
VolumeId Attribute
vol-777777 productCodes
PRODUCT_CODES [marketplace: a1b2c3d4e5f6g7h8i9j10k11]
```

- ec2-describe-volume-status (p. 316)
- ec2-modify-volume-attribute (p. 394)
- ec2-enable-volume-io (p. 351)

ec2-describe-volume-status

Description

Returns the status of one or more volumes. Volume status provides the result of the checks performed on your volumes to determine events that can impair the performance of your volumes. The performance of a volume can be affected if an issue occurs on the volume's underlying host. If the volume's underlying host experiences a power outage or system issue, once the system is restored, there could be data inconsistencies on the volume. Volume events notify you if this occurs. Volume action notifies you if any action needs to be taken in response to the event.

The DescribeVolumeStatus operation provides the following information about the specified volumes:

Status: Reflects the current status of the volume. The possible values are ok, impaired, or insufficient-data. If all checks pass, the overall status of the volume is ok. If the check fails, the overall status is impaired. If the status is insufficient-data, then the checks may still be taking place on your volume at the time. We recommend you retry the request. For more information on volume status, go to Monitoring the Status of Your Volumes.

Events: Reflect the cause of a volume status and may require you to take an action. For example, if your volume returns an impaired status, then the volume event might be potential-data-inconsistency. This means that your volume has been impacted by an issue with the underlying host, has all I/O operations disabled, and may have inconsistent data.

Actions: Reflect the actions you may have to take in response to an event. For example, if the status of the volume is impaired and the volume event shows potential-data-inconsistency, then the action will show enable-volume-io. This means that you may want to to enable the I/O operations for the volume by issuing the ec2-enable-volume-io (p. 351) command and then check the volume for data consistency.



Note

Volume status only has one status check. It does not check volume state as reported by DescribeVolumes. Therefore, it does not detect volumes in the ERROR state (i.e., when a volume is incapable of accepting I/Os because it is in an error state.)

You can filter the results to return information only about volumes that match criteria you specify. For example, you could get information about volumes that have <code>impaired</code> status. You can specify multiple values for a filter (e.g., more than one Availability Zone). A volume must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the volume is in a specific Availability Zone and its status is set to impaired). A volume must match *all* the filters for it to be included in the results. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of $\mbox{\mbox{\mbox{$\gamma$}}} = \mbox{\mbox{$\gamma$}} = \$

The following table shows the available filters.

Filter Name	Description
availability-zone	Instance's Availability Zone. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
volume-status.status	The status of the volume. Type: String Valid Values: ok impaired insufficient-data
volume-status.details-name	The cause for the volume-status.status. Type: String Valid value: io-enabled
volume-status.details-status	The status of the volume-status.details-name. Type: String Valid Values: passed failed
event.description	A description of the event. Type: String
event.not-after	The latest end time for the event. Type: dateType
event.not-before	The earliest start time for the event. Type: dateType
event.event-id	The event ID. Type: String
event.event-type	The event type, e.g., potential-data-inconsistency Type: String
action.code	The action code for the event, e.g., enable-volume-io Type: String
action.event-id	The event ID associated with the action. Type: String
action.description	A description of the action. Type: String

The short version of this command is **ec2dvs**.

Syntax

```
ec2-describe-volume-status [volume_id ...] [[--filter name=value] ...]
```

Options

Name	Description	Required
volume_id	The ID of the volume/s to list. Type: String Default: Describes the status of all volumes you own, or only those otherwise specified. Example: vol-4282672b	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value").	No
	Type: String Default: Describes all volumes you own, or those otherwise specified.	
	Example:filter "volume-status.status=Ok"	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	\it{URL} is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds).
	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f
	2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- VOLUME identifier
- ID of the volume
- Availability Zone in which the volume launched
- Volume status name(e.g., Ok, impaired, io-enabled, insufficient-data)
- EVENT identifier
- ID of the Event
- Event type (e.g., potential-data-inconsistencies)
- The description of the event.
- notBefore (the earliest start time of the event)
- notAfter (the latest end time of the event)
- · ACTION identifier
- The action code (e.g., enable-volume-io)
- The ID of the event associated with the action.
- The event type associated with the action (e.g., potential-data-inconsistency)
- The description of the event associated with the action.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example describes the status of the volumes vol-111111 and vol-222222.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-describe-volume-status vol-111111 vol-222222
Type VolumeId AvailabilityZone VolumeStatus

VOLUME vol-111111 us-east-la ok

VOLUME vol-222222 us-east-1b impaired

Type Name Status VOLUMESTATUS io-enabled failed

Type EventType NotBefore NotAfter EventId EventDescrip

tion

EVENT potential-data-inconsistency 2011-12-01T14:00:00.000Z evol-

61a54008 This is an example

Type ActionCode EventId EventType

EventDescription

ACTION enable-volume-io evol-61a54008 potential-data-inconsistency

This is an example

Example Request

This example describes the volumes associated with your account that have failing I/O operations.

PROMPT> ec2-describe-volume-status --filter "volume-status.details-name=io-en abled" --filter "volume-status.details-status=failed"

- ec2-describe-volume-attribute (p. 313)
- ec2-modify-volume-attribute (p. 394)
- ec2-enable-volume-io (p. 351)

ec2-describe-vpcs

Description

Gives you information about your VPCs. You can filter the results to return information only about VPCs that match criteria you specify. For example, you could get information only about VPCs whose state is available. You can specify multiple values for the filter. A VPC must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the VPC uses one of several sets of DHCP options, and the VPC's state is available). The result includes information for a particular VPC only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
cidr	The CIDR block of the VPC. The CIDR block you specify must exactly match the VPC's CIDR block for information to be returned for the VPC. Type: String Constraints: Must contain the slash followed by one or two digits (e.g., /28)
dchp-options-id	The ID of a set of DHCP options. Type: String
state	The state of the VPC. Type: String Valid Values: pending available
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table.
	For more information about tags, go to Using Tags in the <i>Amazon Elastic Compute Cloud User Guide</i> . Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: <i>key</i>	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
vpc-id	ID of the VPC.
	Type: String

The short version of this command is ec2dvpc.

Syntax

ec2-describe-vpcs [vpc_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
vpc_id	The ID of a VPC you want information about. Type: String Default: Returns information about all your VPCs. Example: vpc-1a2b3c4d	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all VPCs you own, or only those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPC")
- VPC ID
- · CIDR block of the VPC
- The current state of the VPC (pending or available)
- ID of the DHCP options associated with the VPC (or default if none)
- Any tags assigned to the VPC
- The allowed tenancy of instances launched into the VPC.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example gives a description of the VPC with ID vpc-1a2b3c4d.

```
PROMPT> ec2-describe-vpcs vpc-la2b3c4d

VPC vpc-la2b3c4d available 10.0.0.0/23 dopt-7a8b9c2d
```

Example Request

This example uses filters to give a description of any VPC you own that uses the set of DHCP options with ID dopt-7a8b9c2d or dopt-2b2a3d3c and whose state is available.

```
PROMPT> ec2-describe-vpcs --filter "dhcp-options-id=dopt-7a8b9c2d" --filter "dhcp-options-id=dopt-2b2a3d3c" --filter "state=available"

VPC vpc-la2b3c4d available 10.0.0.0/23 dopt-7a8b9c2d
```

- ec2-create-vpc (p. 116)
- ec2-delete-vpc (p. 168)
- ec2-create-dhcp-options (p. 67)
- ec2-associate-dhcp-options (p. 19)

ec2-describe-vpn-connections

Description

Gives you information about your VPN connections. You can filter the results to return information only about VPN connections that match criteria you specify. For example, you could get information only about VPN connections whose state is pending or available. You can specify multiple values for the filter. A VPN connection must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the VPN connection is associated with a particular virtual private gateway, and the gateway's state is pending or available). The result includes information for a particular VPN connection only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
customer-gateway-con figuration	Configuration information for the customer gateway. Type: String
customer-gateway-id	The ID of a customer gateway associated with the VPN connection. Type: String
state	The state of the VPN connection. Type: String Valid Values: pending available deleting deleted
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table. For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String
tag: key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify: filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify: filter tag:Purpose=Xfilter tag:Purpose=Y

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
type	The type of VPN connection. Currently the only supported type is ipsec.1. Type: String Valid Values: ipsec.1
vpn-connection-id	ID of the VPN connection. Type: String
vpn-gateway-id	The ID of a virtual private gateway associated with the VPN connection. Type: String

For VPN connections in the pending or available state only, you can also optionally get the configuration information for the VPN connection's customer gateway. You do this by specifying a format with the --format option, or by specifying an XSL stylesheet of your own design with the --stylesheet option (you were also able to do this when you created the VPN connection).

For more information about Amazon Virtual Private Cloud and VPN connections, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2dvpn.

Syntax

```
ec2-describe-vpn-connections [vpn_connection_id ...] [{--format format} | {--stylesheet your_stylesheet}] [[--filter name=value] ...]
```

Options

Name	Description	Required
vpn_connection_id	A VPN connection ID. You can specify more than one in the request. Type: String Default: Returns information about all your VPN connections. Example: vpn-44a8938f	No

Amazon Elastic Compute Cloud CLI Reference Options

Name	Description	Required
format format	Causes the response to include customer gateway configuration information, in the format specified by this option. The information is returned only if the VPN connection is in the pending or available state. The returned information can be formatted for various devices, including a Cisco device (cisco-ios-isr) or Juniper device (juniper-junos-j), in human readable format (generic), or in the native XML format (xml). Type: String Default: None Valid Values: cisco-ios-isr juniper-screenos-6.2 juniper-screenos-6.1 generic xml Example:format cisco-ios-isr	No
stylesheet your_stylesheet	Causes the response to include customer gateway configuration information, formatted according to the custom XSL stylesheet you specify with this option. The information is returned only if the VPN connection is in the pending or available state. Type: String Default: None Example:stylesheet c:\my_stylesheet.xsl	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all VPN connections you own, or only those otherwise specified. Example:filter "tag-key=Production"	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPNCONNECTION")
- VPN connection ID
- Type of VPN connection
- · Customer gateway ID
- Virtual private gateway ID
- State of the VPN connection (pending, available, deleting, deleted)
- Configuration information for the customer gateway (optional and available only if the VPN connection is in the pending or available state)
- · Any tags assigned to the VPN connection

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example gives a description of the VPN connection with ID vpn-44a8938f. The example specifies that the configuration information be formatted as needed for a Cisco customer gateway. Because it's a long set of information, we haven't displayed it here in the response. To see an example of the configuration information, go to the Amazon Virtual Private Cloud Network Administrator Guide.

Example Request

This example uses filters to give a description of any VPN connection you own associated with the customer gateway with ID cgw-b4dc3961, and whose state is either pending or available. Note that it doesn't use the option that causes the output to include the customer gateway configuration.

```
PROMPT> ec2-describe-vpn-connections --filter "customer-gateway-id=cgw-b4dc3961" --filter "state=pending" --filter "state=available"

VPNCONNECTION vpn-44a8938f ipsec.1 vgw-8db04f81 cgw-b4dc3961 available
```

- ec2-create-vpn-connection (p. 119)
- ec2-delete-vpn-connection (p. 170)

ec2-describe-vpn-gateways

Description

Gives you information about your virtual private gateways. You can filter the results to return information only about virtual private gateways that match criteria you specify. For example, you could get information only about virtual private gateways whose state is pending or available. You can specify multiple values for the filter. A virtual private gateway must match at least one of the specified values for it to be included in the results.

You can specify multiple filters (e.g., the virtual private gateway is in a particular Availability Zone and the gateway's state is pending or available). The result includes information for a particular virtual private gateway only if it matches *all* your filters. If there's no match, no special message is returned; the response is simply empty.

You can use wildcards with the filter values: * matches zero or more characters, and ? matches exactly one character. You can escape special characters using a backslash before the character. For example, a value of *amazon\?\\ searches for the literal string *amazon?\.

The following table shows the available filters.

Filter Name	Description
attachment.state	Current state of the attachment between the gateway and the VPC. Type: String Valid Values: attaching attached detaching detached
attachment.vpc-id	ID of an attached VPC. Type: String
availability-zone	The Availability Zone the virtual private gateway is in. Type: String
state	The state of the virtual private gateway. Type: String Valid Values: pending available deleting deleted
tag-key	Key of a tag assigned to the resource. This filter is independent of the tag-value filter. For example, if you use both the filter tag-key=Purpose and the filter tag-value=X, you get any resources assigned both the tag key Purpose (regardless of what the tag's value is), and the tag value X (regardless of what the tag's key is). If you want to list only resources where Purpose=X, see the tag: key filter later in this table.
	For more information about tags, go to Using Tags in the Amazon Elastic Compute Cloud User Guide. Type: String
tag-value	Value of a tag assigned to the resource. This filter is independent of the tag-key filter. Type: String

Amazon Elastic Compute Cloud CLI Reference Syntax

Filter Name	Description
tag:key	Filters the results based on a specific tag/value combination. Example: To list just the resources assigned tag Purpose=X, then specify:filter tag:Purpose=X Example: To list just resources assigned tag Purpose=X OR Purpose=Y, then specify:filter tag:Purpose=Xfilter tag:Purpose=Y
type	The type of virtual private gateway. Currently the only supported type is ipsec.1. Type: String Valid Values: ipsec.1
vpn-gateway-id	ID of the virtual private gateway. Type: String

For more information about Amazon Virtual Private Cloud and virtual private gateways, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2dvgw.

Syntax

ec2-describe-vpn-gateways [vpn_gateway_id ...] [[--filter name=value] ...]

Options

Name	Description	Required
vpn_gateway_id	A virtual private gateway ID. You can specify more than one in the request. Type: String Default: Returns information about all your virtual private gateways. Example: vgw-8db04f81	No
-F,filter name=value	A filter for limiting the results. See the preceding table for a list of allowed filter names and values. You need to use quotation marks if the value string has a space (e.g., "name=value example"). If you're using the command line tools on a Windows system, you might need to use quotation marks, even when there is no space in the value string (e.g., "name=value"). Type: String Default: Describes all virtual private gateways you own, or only those otherwise specified.	No
	Example:filter "tag-key=Production"	

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPNGATEWAY")
- · Virtual private gateway ID
- State of the virtual private gateway (pending, available, deleting, deleted)
- · Availability Zone where the virtual private gateway was created
- Type of VPN connection the virtual private gateway supports
- Output type identifier ("VGWATTACHMENT")
- ID of each attached VPC and the state of each attachment (attaching, attached, detaching, detached)
- · Any tags assigned to the virtual private gateway

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example gives a description of the virtual private gateway with ID vgw-8db04f81.

```
PROMPT> ec2-describe-vpn-gateways vgw-8db04f81 VPNGATEWAY vgw-8db04f81 available us-east-1a ipsec.1
VGWATTACHMENT vpc-1a2b3c4d attached
```

Example Request

This example uses filters to give a description of any virtual private gateway you own that is in the us-east-1a Availability Zone, and whose state is either pending or available.

- ec2-create-vpn-gateway (p. 123)
- ec2-delete-vpn-gateway (p. 173)

ec2-detach-internet-gateway

Description

Detaches an Internet gateway from a VPC, disabling connectivity between the Internet and the VPC. The VPC must not contain any running instances with Elastic IP addresses. For more information about your VPC and Internet gateway, go to the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2detigw.

Syntax

ec2-detach-internet-gateway vpn_gateway_id -c vpc_id

Options

Name	Description	Required
vpn_gateway_id	The ID of the Internet gateway to detach. Type: String Default: None Example: igw-8db04f81	Yes
-c,vpc vpc_id	The ID of the VPC. Type: String Default: None Example: -c vpc-1a2b3c4d	Yes

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example detaches the Internet gateway with ID igw-eaad4883 from the VPC with ID vpc-11ad4878.

PROMPT> ec2-detach-internet-gateway igw-eaad4883 -c vpc-11ad4878
RETURN true

- ec2-create-internet-gateway (p. 77)
- ec2-delete-internet-gateway (p. 136)
- ec2-detach-internet-gateway (p. 25)
- ec2-describe-internet-gateways (p. 236)

ec2-detach-network-interface

Description

Detaches a network interface from an instance. The NETWORKATTACHMENT parameter is the ID of the attachment.

The short version of this command is ec2detnic.

Syntax

ec2-detach-network-interface NETWORKATTACHMENT -f, --force

Options

Name	Description	Required
-f,force	Forcefully disconnect NETWORKATTACHMENT from INSTANCE. Type: String Default: None	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the name of the network attachment that was detached.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example detaches the specified network interface.

PROMPT> ec2-detach-network-interface eni-attach-083fda61
ATTACHMENT eni-attach-083fda61 detaching

- ec2-create-network-interface (p. 89)
- ec2-delete-network-interface (p. 146)
- ec2-describe-network-interfaces (p. 248)
- ec2-describe-network-interface-attribute (p. 254)
- ec2-attach-network-interface (p. 28)
- ec2-modify-network-interface-attribute (p. 387)
- ec2-reset-network-interface-attribute (p. 443)

ec2-detach-volume

Description

Detaches an Amazon EBS volume from an instance. Make sure to unmount any file systems on the device within your operating system before detaching the volume. Failure to do so will result in volume being stuck in "busy" state while detaching. For more information about Amazon EBS, go to Using Amazon Elastic Block Store in the Amazon Elastic Compute Cloud User Guide.



Note

If an Amazon EBS volume is the root device of an instance, it cannot be detached while the instance is in the 'running' state. To detach the root volume, stop the instance first.

If the root volume is detached from an instance with an AWS Marketplace product code, then the AWS Marketplace product codes from that volume will no longer be associated with the instance.

The short version of this command is ec2detvol.

Syntax

ec2-detach-volume volume_id [--instance_instance_id [--device device]] [--force]

Options

Name	Description	Required
volume_id	The ID of the volume. Type: String Default: None Example: vol-4282672b	Yes
-i,instance instance_id	The ID of the instance. Type: String Default: None Example: -i i-6058a509	No
-d,device device	The device name. Type: String Default: None Example: -d /dev/sdh	No

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-f,force	Forces detachment if the previous detachment attempt did not occur cleanly (logging into an instance, unmounting the volume, and detaching normally). This option can lead to data loss or a corrupted file system. Use this option only as a last resort to detach a volume from a failed instance. The instance will not have an opportunity to flush file system caches or file system metadata. If you use this option, you must perform file system check and repair procedures. Type: Boolean Default: None Example: -f	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2.
ECZ-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- ATTACHMENT identifier
- ID of the volume
- · ID of the instance
- · Device as which the volume is exposed within the instance
- Attachment state (e.g., detaching)
- · Time stamp when detaching was initiated

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example detaches volume vol-4d826724.

```
PROMPT> ec2-detach-volume vol-4d826724  
 ATTACHMENT vol-4d826724 i-6058a509 /dev/sdh detaching  
 2008-02-14T00:00:17+0000
```

- ec2-create-volume (p. 113)
- ec2-delete-volume (p. 165)
- ec2-describe-volumes (p. 308)
- ec2-attach-volume (p. 31)

ec2-detach-vpn-gateway

Description

Detaches a virtual private gateway from a VPC. You do this if you're planning to turn off the VPC and not use it anymore. You can confirm a virtual private gateway has been completely detached from a VPC by describing the virtual private gateway (any attachments to the virtual private gateway are also described).

You must wait for the attachment's state to switch to detached before you can delete the VPC or attach a different VPC to the virtual private gateway.

For more information about Amazon Virtual Private Cloud and virtual private gateways, go to Adding an IPsec Hardware Virtual Private Gateway to Your VPC in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2detvgw.

Syntax

ec2-detach-vpn-gateway -p vpn_gateway_id -c vpc_id

Options

Name	Description	Required
-p vpn_gateway_id	The ID of the virtual private gateway you want to detach from the VPC. Type: String Default: None Example: -p vgw-8db04f81	Yes
-c vpc_id	The ID of the VPC you want to detach the virtual private gateway from. Type: String Default: None Example: -c vpc-1a2b3c4d	Yes

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("VPNGATEWAY")
- VPC ID and the state of detachment (attaching, attached, detaching, detached)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example detaches the virtual private gateway with ID vgw-8db04f81 from the VPC with VPC ID vpc-1a2b3c4d.

```
PROMPT> ec2-detach-vpn-gateway -p vgw-8db04f81 -c vpc-la2b3c4d VGWATTACHMENT vpc-la2b3c4d detaching
```

- ec2-attach-vpn-gateway (p. 34)
- ec2-describe-vpn-gateways (p. 330)

ec2-disassociate-address

Description

Disassociates an Elastic IP address from the instance or network interface it's assigned to.

This action applies to both EC2 Elastic IP addresses and VPC Elastic IP addresses. For information about VPC addresses and how they differ from EC2 addresses, go to Elastic IP Addresses in the *Amazon Virtual Private Cloud User Guide*.

This is an idempotent action. If you enter it more than once, Amazon EC2 does not return an error.

The short version of this command is ec2disaddr.

Syntax

ec2-disassociate-address { ip_address | -a association_id}

Options

Name	Description	Required
ip_address	EC2 Elastic IP address you want to disassociate. Type: String Default: None Condition: Required for EC2 Elastic IP addresses. Example: 192.0.2.1	Conditional
-a, association-id assocation_id	Association ID corresponding to the VPC Elastic IP address you want to disassociate. Type: String Default: None Condition: Required for VPC Elastic IP addresses. Example: -a eipassoc-fc5ca095	Conditional

Option	Description
region REGION	Overrides the Region specified in the $EC2_URL$ environment variable and the URL specified by the $-U$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ADDRESS")
- Elastic IP address you are disassociating from the instance

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example disassociates the EC2 Elastic IP address (192.0.2.1) from the instance it's assigned to.

Amazon Elastic Compute Cloud CLI Reference Related Operations

```
PROMPT> ec2-disassociate-address 192.0.2.1
ADDRESS 192.0.2.1
```

Example Request

This example disassociates the VPC Elastic IP address with association ID eipassoc-048c746d from the instance it's assigned to.

```
PROMPT> ec2-disassociate-address -a eipassoc-048c746d

ADDRESS eipassoc-048c746d
```

- ec2-allocate-address (p. 12)
- ec2-describe-addresses (p. 178)
- ec2-release-address (p. 410)
- ec2-associate-address (p. 15)

ec2-disassociate-route-table

Description

Disassociates a subnet from a route table.

After you perform this action, the subnet no longer uses the routes in the route table. Instead, it uses the routes in the VPC's main route table. For more information about route tables, go to Route Tables in the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2disrtb.

Syntax

ec2-disassociate-route-table route_table_association_id

Options

Name	Description	Required
route_table_associat ion_id	The association ID representing the current association between the route table and subnet. Type: String Default: None Example: rtbassoc-61a34608	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example disassociates the route table with association ID rtbassoc-fdad4894 from the subnet it's associated to.

 $\begin{array}{lll} \mbox{{\tt PROMPT}} > & \mbox{{\tt ec2-disassociate-route-table rtbassoc-fdad4894} \\ \mbox{{\tt RETURN}} & \mbox{{\tt true}} \end{array}$

- ec2-create-route-table (p. 98)
- ec2-associate-route-table (p. 22)

Amazon Elastic Compute Cloud CLI Reference Related Operations

- ec2-delete-route-table (p. 153)
- ec2-describe-route-tables (p. 274)
- ec2-replace-route-table-association (p. 423)

ec2-enable-volume-io

Description

Enables I/O operations for a volume that had I/O operations disabled because the data on the volume was potentially inconsistent.

The short version of this command is ec2evio.

Syntax

ec2-enable-volume-io volume_id

Options

Name	Description	Required
volume_id	ID of the volume. Type: String Default: None Example: vol-43a4412a	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a Boolean value indicating whether the request succeeded.

• Boolean value representing whether the call succeeded.

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example enables the I/O operations for the volume vol-232323.

PROMPT> ec2-enable-volume-io vol-232323
RETURN true

Related Operations

• ec2-describe-volume-status (p. 316)

ec2-fingerprint-key

Description

Computes and displays the fingerprint for a private key produced by Amazon EC2.

This operation is performed entirely on the client-side. Network access is not required.

The short version of this command is **ec2fp**.

Syntax

ec2-fingerprint-key keyfile

Options

Name	Description	Required
keyfile	The path to a file containing an unencrypted PEM-encoded PKCS#8 private key. Type: String Default: None Example: mykey.pem	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

• A key fingerprint. This is formatted as a hash digest with each octet separated by a colon

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example computes and displays the fingerprint for the mykey.pem private key.

Related Operations

• ec2-describe-keypairs (p. 240)

ec2-get-console-output

Description

Retrieves console output for the specified instance.

Amazon EC2 instances do not have a physical monitor through which you can view their console output. They also lack physical controls that allow you to power up, reboot, or shut them down. To allow these actions, we provide them through the Amazon EC2 API and the command line tools.

Instance console output is buffered and posted shortly after instance boot, reboot, and termination. Amazon EC2 preserves the most recent 64 KB output which will be available for at least one hour after the most recent post.

For Linux/UNIX instances, the Amazon EC2 instance console output displays the exact console output that would normally be displayed on a physical monitor attached to a machine. This output is buffered because the instance produces it and then posts it to a store where the instance's owner can retrieve it.

For Windows instances, the Amazon EC2 instance console output displays the last three system event log errors.

The short version of this command is **ec2gcons**.

Syntax

ec2-get-console-output instance_id [-r]

Options

Name	Description	Required
instance_id	ID of the instance. Type: String Default: None Example: i-10a64379	Yes
-r, raw-console-output	Return raw output without escapes to facilitate reading. Type: String Default: Disabled Example: -r	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- The instance ID
- A timestamp indicating the time of the last update
- The instance console output. By default the ^ESC character is escaped and duplicate new-lines are removed to facilitate reading

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example retrieves the console output for the i-10a64379 Linux and UNIX instance.

```
PROMPT> ec2-get-console-output i-10a64379

i-10a64379
2010-04-08T09:20:29+0000
Linux version 2.6.21.7-2.ec2.v1.2.fc8xen (root@domU-12-34-56-0A-78-01)

(gcc version 4.1.2 20070925 (Red Hat 4.1.2-33)) #1 SMP Fri Nov 20 19:22:36 EST 2009

BIOS-provided physical RAM map:
sanitize start
sanitize bail 0
copy_e820_map() start: 0000000000000000000 size: 000000006ac00000 end:

000000006ac00000 type: 1
Xen: 00000000000000000 - 000000006ac00000 (usable)
980MB HIGHMEM available.
727MB LOWMEM available.
NX (Execute Disable) protection: active
...
...
...
...
```

Related Operations

• ec2-run-instances (p. 457)

ec2-get-password

Description

Retrieves and decrypts the administrator password for the instances running Windows.

You must specify the key pair used to launch the instance.



Note

The Windows password is only generated the first time an AMI is launched. It is not generated for rebundled AMIs or after the password is changed on an instance.

The password is encrypted using the key pair that you provided.

There is no SOAP or Query version of the ec2-get-password command.

Password generation and encryption takes a few moments. Please wait up to 15 minutes after launching an instance before trying to retrieve the generated password.

The short version of this command is ec2gpass.

Syntax

ec2-get-password instanceId -k key_file

Options

Name	Description	Required
instance_id	A Windows instance ID. Type: String Default: None Example: i-9b76d0f3	Yes
-k, priv-launch-key key_file	The file that contains the private key used to launch the instance. Type: String Default: None Example: -k windows-keypair.pem	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

• The Windows administrator password

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example returns the administrator password for the i-2574e22a instance.

 $\label{eq:prompt} \begin{array}{lll} \texttt{PROMPT} > & \textbf{ec2-get-password i-2574e22a -k windows-keypair.pem} \\ \texttt{q96A40B9w} \end{array}$

- ec2-run-instances (p. 457)
- ec2-describe-instances (p. 222)

ec2-import-instance

Description

Creates a new import instance task using metadata from the specified disk image, and imports the image to Amazon EC2. For more information about prerequisites for importing an instance, go to Before You Get Started and Using the Command Line Tools to Import Your Virtual Machine to Amazon EC2 in the Amazon Elastic Compute Cloud User Guide.



Note

ec2-import-instance and ec2-import-volume commands that are part of Amazon EC2 API command line tools downloaded after 09-15-2011 upload the images to Amazon EC2 after creating the import task. Previously, we used ec2-upload-disk-image for the upload task; ec2-upload-disk-image is deprecated.

If the upload task doesn't complete, use ec2-resume-import to resume the import from where it was interrupted.

The short version of this command is ec2iin.

Syntax

```
ec2-import-instance -t instance_type [-g group] -f file_format -a architecture -b s3_bucket_name [-o owner] -w secret_key [--prefix prefix] [--manifest-url url] [-s volume_size] [-z availability_zone] [-d description] [--user-data user_data] [--user-data-file disk_image_filename] [--subnet subnet_id] [--private-ip-address ip_address] [--monitor] [--instance-initiated-shutdown-behavior behavior] [--x days] [--ignore-region-affinity] [--dry-run] [--no-upload] [--dont-verify-format]
```

Name	Description	Required
-t,instance-type instance_type	Specifies the type of instance to be launched. Type: String Default: m1.small Valid Values: m1.small m1.large m1.xlarge c1.medium c1.xlarge m2.xlarge m2.2xlarge m2.4xlarge Example: -t m1.small	Yes
-g,group group	The security group within which the instances should be run. Determines the ingress firewall rules that are applied to the launched instances. Only one security group is supported for an instance. Type: String Default: Your default security group Example: -g myGroup	No

Name	Description	Required
-f,format file_format	The file format of the disk image. Type: String Default: None Valid Values: VMDK RAW VHD Example: -f VMDK	Yes
-a,architecture architecture	The architecture of the image. Type: String Default: i386 Valid Values: i386 x86_64 Condition: Required if instance type is specified; otherwise defaults to i386. Note Using this option ensures that your image is imported as the expected instance type. Example: -a i386	Yes
bucket <i>s3_bucket_name</i>	The Amazon S3 destination bucket for the manifest. Type: String Default: None Condition: Themanifest-url parameter is not specified. Example: myawsbucket	Yes
-o,owner-akid access_key_id	Access key ID of the bucket owner. Type: String Default: None Example: AKIAIOSFODNN7EXAMPLE	No
-w,owner-sak secret_access_key	Secret access key of the bucket owner. Type: String Default: None Example: wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
prefix <i>prefix</i>	Prefix for the manifest file and disk image file parts within the Amazon S3 bucket. Type: String Default: None Example:prefix MyDiskParts	No
manifest-url url	The URL for an existing import manifest file already uploaded to Amazon S3. Type: String Default: None. This option cannot be specified if thebucket option is present. Example: my-ami.manifest.xml	No

Name	Description	Required
-s,volume-size volume_size	The size of the Amazon EBS volume, in GiB (2^30 bytes), that will hold the converted image. If not specified, EC2 calculates the value using the disk image file. Type: String Default: None Example: -s 30	No
-z,availability-zone availability_zone	The Availability Zone for the converted VM. Type: String Default: None Valid Values: Use ec2-describe-availability-zones for a list of values Example: -z us-east-1	No
-d,description description	An optional, free-form comment returned verbatim during subsequent calls to ec2-describe-conversion-tasks. Type: String Default: None Constraint: Maximum length of 255 characters Example: -d Test of ec2-import-instance	No
user-data user_data	User data to be made available to the imported instance. Type: String Default: None Example:user-data This is user data	No
user-data-file disk_image_filename	The file containing user data made available to the imported instance. Type: String Default: None Example:user-data-file my_data_file	No
subnet subnet_id	If you're using Amazon Virtual Private Cloud, this specifies the ID of the subnet into which you're launching the instance. Type: String Default: None Example:subnet subnet-f3e6ab83	No
private-ip-address ip_address	If you're using Amazon Virtual Private Cloud, this specifies the specific IP address within subnet to use. Type: String Default: None Example:private-ip-address 10.0.0.3	No

Name	Description	Required
monitor	Enables monitoring of the specified instance(s). Type: String Default: None Example:monitor	No
instance-initiated -shutdown-behavior behavior	If an instance shutdown is initiated, this determines whether the instance stops or terminates. Type: String Default: None Valid Values: stop terminate Example:instance-initiated-shutdown-behavior stop	No
-x,expires days	Validity period for the signed Amazon S3 URLS that allow EC2 to access the manifest. Type: String Default: 30 days Example: -x 10	No
ignore-region-affinity	Ignore the verification check to determine that the bucket's Amazon S3 Region matches the EC2 Region where the conversion task is created. Type: None Default: None Example:ignore-region-affinity	No
dry-run	Does not create an import task, only validates that the disk image matches a known type. Type: None Default: None Example:dry-run	No
no-upload	Does not upload a disk image to Amazon S3, only creates an import task. To complete the import task and upload the disk image, use ec2-resume-import. Type: None Default: None Example:no-upload	No
dont-verify-format	Does not verify the file format. We don't recommend this option because it can result in a failed conversion. Type: None Default: None Example:dont-verify-format	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the following information:

- · Task ID, which you will use in other commands
- General information about the disk image, such as the size and format
- General information about the import operation, such as the status, bytes received, and expiration deadline

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example creates an import instance task that migrates a Windows Server 2008 SP2 (32-bit) VM into the AWS us-east-1 Region.

PROMPT> ec2-import-instance ./WinSvr8-disk1.vmdk -f VMDK -o AKIAIOSFODNN7EXAMPLE -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY -b myawsbucket

- ec2-import-volume (p. 370)
- ec2-resume-import (p. 448)
- ec2-delete-disk-image (p. 130)
- ec2-describe-conversion-tasks (p. 189)
- ec2-cancel-conversion-task (p. 50)

ec2-import-keypair

Description

Imports the public key from an RSA key pair that you created with a third-party tool. Compare this with ec2-create-keypair, in which AWS creates the key pair and gives the keys to you (AWS keeps a copy of the public key). With ec2-import-keypair, you create the key pair and give AWS just the public key. The private key is never transferred between you and AWS.

You can easily create an RSA key pair on Windows and Linux using the ssh-keygen command line tool (provided with the standard OpenSSH installation). Standard library support for RSA key pair creation is also available in Java, Ruby, Python, and many other programming languages.

Supported formats:

- OpenSSH public key format (e.g., the format in ~/.ssh/authorized_keys)
- · Base64 encoded DER format
- SSH public key file format as specified in RFC4716

DSA keys are not supported. Make sure your key generator is set up to create RSA keys.

Supported lengths: 1024, 2048, and 4096.

The short version of this command is ec2ikey.

Syntax

ec2-import-keypair key_name --public-key-file key_file

Name	Description	Required
key_name	A unique name for the key pair. Type: String Default: None Constraints: Accepts alphanumeric characters, spaces, dashes, and underscores. Example: myfavoritekeypair	Yes
-f, public-key-file key_file	Path and name of file containing the public key. Type: String Default: None Example: -f C:\keys\myfavoritekeypair_public.ppk	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- · KEYPAIR identifier
- · Key pair name
- MD5 public key fingerprint as specified in section 4 of RFC4716

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example imports the public key from the file C:\keys\mykey.ppk.

- ec2-create-keypair (p. 79)
- ec2-describe-keypairs (p. 240)
- ec2-delete-keypair (p. 139)

ec2-import-volume

Description

Creates a new import volume task using metadata from the specified disk image, and imports the image to Amazon EC2. For more information about prerequisites for importing a volume, go to Before You Get Started and Using the Command Line Tools to Import Your Virtual Machine to Amazon EC2 in the Amazon Elastic Compute Cloud User Guide.



Note

ec2-import-instance and ec2-import-volume commands that are part of Amazon EC2 API command line tools downloaded after 09-15-2011 upload the images to Amazon EC2 after creating the import task. Previously, we used ec2-upload-disk-image for the upload task; ec2-upload-disk-image is deprecated.

If the upload task doesn't complete, use ec2-resume-import to resume the import from where it was interrupted.

The short version of this command is ec2ivol.

Syntax

ec2-import-volume disk_image -f file_format [-s volume_size] -z availability_zone
[-b s3_bucket_name] [-o owner] -w secret_key [--prefix prefix] [--manifest-url
url] [-d description] [--x days] [--ignore-region-affinity] [--dry-run]
[--no-upload] [--dont-verify-format]

Name	Description	Required
disk_image	The local file name of the disk image that you want to import. Type: String Default: None Example: WinSvr8-64-disk1.vmdk	Yes
-f,format file_format	The file format of the disk image. Type: String Default: None Valid Values: VMDK RAW VHD Example: -f VMDK	Yes
-s,volume-size volume_size	The size, in GB (2^30 bytes), of an Amazon EBS volume that will hold the converted image. If not specified, Amazon EC2 calculates the value using the disk image file. Type: String Default: None Example: -s 30	No

Name	Description	Required
The Availability Zone for the converted VM. Type: String Valid Values: Use ec2-describe-availability-zones for a list ovalues. Example: -z us-east-1		No
-b,bucket <i>bucket</i>	The Amazon S3 destination bucket for the manifest. Type: String Default: None Condition: Required when themanifest-url parameter is not specified. Example: -b myawsbucket	Yes
-o,owner-akid access_key_id	Access key ID of the bucket owner. Type: String Default: None Example: AKIAIOSFODNN7EXAMPLE	No
-w,owner-sak secret_access_key	Secret access key of the bucket owner. Type: String Default: None Example: wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	
prefix <i>prefix</i>	Prefix for the manifest file and disk image file parts within the Amazon S3 bucket. Type: String Default: None Example:prefix MyDiskParts	No
manifest-url url	The URL for an existing import manifest file already uploaded to Amazon S3. Type: String Default: None Condition: This option cannot be specified if thebucket option is present. Example: my-ami.manifest.xml	No
-d,description description	An optional, free-form comment returned verbatim during subsequent calls to ec2-describe-conversion tasks. Type: String Default: None Constraint: Maximum length of 255 characters Example: -d Test of ec2-import-instance	No

Name	Description	Required
-x,expires days	Validity period for the signed Amazon S3 URLS that allow EC2 to access the manifest. Type: String Default: 30 days Example: -x 10	No
ignore-region-affinity	Ignore the verification check to determine that the bucket's Amazon S3 Region matches the Amazon EC2 Region where the conversion-task is created. Type: None Default: None Example:ignore-region-affinity	No
dry-run	Does not create an import task, only validates that the disk image matches a known type. Type: None Default: None Example:dry-run	No
no-upload	Does not upload a disk image to Amazon S3, only creates an import task. To complete the import task and upload the disk image, use ec2-resume-import. Type: None Default: None Example:no-upload	No
dont-verify-format	Does not verify the file format. We don't recommend this option because it can result in a failed conversion. Type: None Default: None Example:dont-verify-format	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the following information:

- Percent of the import completed
- Checksum value
- Information about the volume, such as the size and format

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example creates an import volume task that migrates a Windows Server 2008 (32-bit) volume into the AWS us-east-1 Region.

PROMPT>ec2-import-volume 123M.vmdk -f VMDK -z us-east-1a -s 9 -b myawsbucket - o AKIAIOSFODNN7EXAMPLE -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY

- ec2-import-instance (p. 361)
- ec2-resume-import (p. 448)
- ec2-delete-disk-image (p. 130)
- ec2-describe-conversion-tasks (p. 189)
- ec2-cancel-conversion-task (p. 50)

ec2-migrate-image

Description

Copies a bundled AMI from one Region to another.



Note

This tool replaces ec2-migrate-bundle (p. 493).

This tool does not work with AMIs backed by Amazon EBS.

The short version of this command is ec2mim.

Syntax

```
ec2-migrate-image --private-key private_key --cert cert -U url --owner-akid access_key_id --owner-sak secret_access_key --bucket source_s3_bucket --destination-bucket destination_s3_bucket --manifest manifest_path --acl acl --location {US | EU} --ec2cert ec2_cert_path [--kernel kernel-id] [--ramdisk ramdisk_id] {--no-mapping} --region mapping_region_name
```

Name	Description	Required
-K,private-key private_key	The path to your PEM-encoded RSA key file. Type: String Default: Uses EC2_PRIVATE_KEY environment variable	No
-C,cert cert	The user's PEM encoded RSA public key certificate file. Type: String Default: Uses EC2_CERT environment variable Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	No
-U,url url	Specifies the URL to use as the web service URL. Type: String Default: https://ec2.amazonaws.com Example: -U https://ec2.amazonaws.com	No
-o,owner-akid access_key_id	Access key ID of the bucket owner. Type: String Default: None Example: -o AKIAIOSFODNN7EXAMPLE	Yes

Name	Description	Required
-w,owner-sak secret_access_key	Secret access key of the bucket owner. Type: String Default: None Example: -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
bucket source_s3_bucket	The source Amazon S3 bucket where the AMI is located, followed by an optional '/'-delimited path prefix. Type: String Default: None Example:bucket myawsbucket	Yes
destination-bucket destination_s3_bucket	The destination Amazon S3 bucket, followed by an optional '/'-delimited path prefix. If the destination bucket does not exist, it is created. Type: String Default: None Example:destination-bucket myotherawsbucket	Yes
manifest <i>manifest</i>	The location of the Amazon S3 source manifest. Type: String Default: None Example:manifest my-ami.manifest.xml	Yes
location {US EU}	The location of the destination Amazon S3 bucket. Type: String Valid Values: US EU Default: US Example:location EU	No
acl <i>acl</i>	The access control list policy of the bundled image. Type: String Valid Values: public-read aws-exec-read Default: None Example:acl public-read	Yes
kernel	The ID of the kernel to select. Type: String Default: None Example:kernel aki-ba3adfd3	No
ramdisk	The ID of the RAM disk to select. Some kernels require additional drivers at launch. Check the kernel requirements for information on whether you need to specify a RAM disk. To find kernel requirements, refer to the Resource Center and search for the kernel ID. Type: String Default: None Example:ramdisk ari-badbad00	No

Name	Description	Required
no-mapping	Disables automatic mapping of kernels and RAM disks. Type: String Default: Mapping is enabled. Example:no-mapping	No
region region	Region to look up in the mapping file. Type: String Default: Amazon EC2 attempts to determine the Region from the location of the Amazon S3 bucket. Example:region eu-west-1	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.

Option	Description	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.	
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>	

Output

The command returns a table that contains the following information:

· Status messages describing the stages and status of the migration

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example copies the AMI specified in the my-ami.manifest.xml manifest from the US to the EU.

```
PROMPT> ec2-migrate-image --cert cert-THUMBPRINT.pem --private-key pk-THUMB
PRINT.pem --owner-akid
AKIAIOSFODNN7EXAMPLE --owner-sak wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY --
bucket myawsbucket
--destination-bucket my-eu-bucket --manifest my-ami.manifest.xml --acl aws-
exec-read --location EU
Copying 'my-ami.part.00'...
Copying 'my-ami.part.01'...
Copying 'my-ami.part.02'...
Copying 'my-ami.part.03'...
Copying 'my-ami.part.04'...
Copying 'my-ami.part.05'...
Copying 'my-ami.part.06'...
Copying 'my-ami.part.07'...
Copying 'my-ami.part.08'...
Copying 'my-ami.part.09'...
Copying 'my-ami.part.10'...
Your new bundle is in S3 at the following location:
my-eu-bucket/my-ami.manifest.xml
```

- ec2-register (p. 405)
- ec2-run-instances (p. 457)

ec2-modify-image-attribute

Description

Modifies an attribute of an AMI.



Note

AWS Marketplace product codes cannot be modified. Images with an AWS Marketplace product code cannot be made public.

The short version of this command is ec2mimatt.

Syntax

ec2-modify-image-attribute ami_id {-1 (-a entity | -r entity) | --product-codes code}

Name	Description	Required
ami_id	The AMI ID.	Yes
	Type: String	
	Default: None	
	Example: ami-2bb65342	
-p,product-codes	Product code to add to the specified Amazon S3-backed AMI. Once you add a product code to an AMI, it can't be removed.	No
	Type: String	
	Default: None	
	Example: -p D662E989	
-1, launch-permission	Used with theadd orremove flags to grant or revoke launch permissions.	Yes
	Type: String	
	Default: None	
	Example:launch-permission	
-a,add entity	Adds a launch permission for the specified AWS account or for all accounts.	Yes
	Type: String	
	Valid Values: AWS account identifier all	
	Default: None	
	Example:launch-permissionadd all	

Name	Description	Required
-r,remove entity	Removes a launch permission for the specified AWS account or for all users. Type: String Valid Values: AWS account identifier all Default: None Example:launch-permissionremove all	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.

Option	Description	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.	
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>	

Output

The command returns a table that contains the following information:

- · Attribute type identifier
- · ID of the AMI on which attributes are being modified
- · Action performed on the attribute
- · Attribute or attribute list item value type
- · Attribute or attribute list item value

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example makes the AMI public (i.e., so any AWS account can launch it).

```
PROMPT> ec2-modify-image-attribute ami-2bb65342 -1 -a all launchPermission ami-2bb65342 ADD group all
```

Example Request

This example makes the AMI private (i.e., so only you as the owner can launch it).

```
PROMPT> ec2-modify-image-attribute ami-2bb65342 -1 -r all launchPermission ami-2bb65342 REMOVE group all
```

Example Request

This example grants launch permission to the AWS account with ID 444455556666.

```
PROMPT>
ec2-modify-image-attribute ami-2bb65342 -l -a 444455556666
launchPermission ami-2bb65342 ADD userId 444455556666
```

Example Request

This example removes launch permission from the AWS account with ID 444455556666.

PROMPT> ec2-modify-image-attribute ami-2bb65342 -1 -r 444455556666 launchPermission ami-2bb65342 REMOVE userId 444455556666

Example Request

This example adds the 774F4FF8 product code to the ami-61a54008 AMI.

PROMPT> ec2-modify-image-attribute ami-61a54008 -p 774F4FF8 productcodes ami-61a54008 productCode 774F4FF8

- ec2-reset-image-attribute (p. 437)
- ec2-describe-image-attribute (p. 208)

ec2-modify-instance-attribute

Description

Modifies an attribute of an instance.



Note

If you want to add ephemeral storage to an Amazon EBS-backed instance, you must add the ephemeral storage at the time you launch the instance. For more information, go to Overriding the AMI's Block Device Mapping in the Amazon Elastic Compute Cloud User Guide, or to Adding A Default Instance Store in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is ec2minatt.

Syntax

```
ec2-modify-instance-attribute instance_id {--instance-type type | --kernel
kernel_id | --ramdisk ramdisk_id | --user-data user_data |
--disable-api-termination Boolean | --instance-initiated-shutdown-behavior
behavior | --block-device-mapping mapping | --source-dest-check Boolean |
--group-id group_id [...] }
```

Name	Description	Required
instance_id	The instance ID.	Yes
	Type: String	
	Default: None	
	Example: i-43a4412a	
-t,instance-type	The type of the instance.	No
type	Type: String	
	Default: m1.small	
	Example: -t m1.large	
kernel kernel_id	Sets the ID of the kernel associated with the AMI.	No
	Type: String	
	Default: None	
	Example:kernel aki-1a2b3c4d	
ramdisk	Sets the ID of the RAM disk associated with the AMI.	No
ramdisk_id	Type: String	
	Default: None	
	Example:ramdisk ari-1a2b3c4d	

Name	Description	Required
user-data user_data	Specifies Base64-encoded MIME user data to be made available to the instance(s) in this reservation. Type: String Default: None Example:user-data "My user data"	No
disable-api-termin ation Boolean	Specifies whether the instance can be terminated using the EC2 API. A value of true means you can't terminate the instance using the API (i.e., the instance is "locked"). A value of false means you can. You must set this attribute to false to "unlock" an instance and therefore be able to terminate it using the EC2 API. Type: Boolean Default: None Example:disable-api-termination false	No
instance-initiated -shutdown-behavior behavior	If an instance shutdown is initiated, this determines whether the instance stops or terminates. Type: String Valid Values: stop terminate Default: stop Example:instance-initiated-shutdown-behavior stop	No
block-device-mappi ng mapping	Modifies the DeleteOnTermination attribute for volumes that are currently attached. The volume must be owned by the caller. If no value is specified for DeleteOnTerminaton, the value defaults to true and the volume will be deleted when the instance is terminated. Type: BlockDeviceMapping Default: stop Example:b "/dev/sdb=vol-7eb96d16:false	No
source-dest-check Boolean	This attribute exists to enable a Network Address Translation (NAT) instance in a VPC to perform NAT. The attribute controls whether source/destination checking is enabled on the instance. A value of true means checking is enabled, and false means checking is disabled. The value must be false for the instance to perform NAT. For more information, go to NAT Instances in the Amazon Virtual Private Cloud User Guide. Type: Boolean Default: None Example:source-dest-check false	No

Name	Description	Required
-g,group-id group_id	This is applicable only to instances running in a VPC. Use this parameter when you want to change the security groups an instance is in. The new set of groups you specify replaces the current set. You must specify at least one group, even if it's just the default security group in the VPC. You must specify the group ID and not the group name. For example, if you want the instance to be in sg-1a1a1a1a and sg-9b9b9b9b, specify -g sg-1a1a1a1a -g sg-9b9b9b9b. Type: String Default: None Example: -g sg-1a1a1a1a	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2.
	Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on
	the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.

Option	Description
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>

Output

The command returns a table that contains the following information:

- Attribute type identifier
- ID of the instance on which attributes are being modified

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example changes the kernel for the instance.

 $\label{eq:prompt} \mbox{ PROMPT> } \mbox{ ec2-modify-instance-attribute } \mbox{ i-10a64379 --kernel aki-f70657b2} \\ \mbox{ KERNEL } \mbox{ i-10a64379 aki-f70657b2}$

- ec2-reset-instance-attribute (p. 440)
- ec2-describe-instance-attribute (p. 218)

ec2-modify-network-interface-attribute

Description

Modifies a network interface attribute. Only one attribute can be specified per call.

The short version of this command is ec2mnicatt.

Syntax

ec2-modify-network-interface-attribute NETWORKINTERFACE -d, --description DESCRIPTION -a, --attachment ATTACHMENT --delete-on-termination BOOLEAN --source-dest-check BOOLEAN --group-id GROUP_ID

Name	Description	Required
-d,description DESCRIPTION	Change the description of the network interface. Type: String Default: None Example: -d "My Second ENI"	Yes
-a,attachment ATTACHMENT	Change properties of the attachment. Type: String Default: None Constraints: Must be used in conjunction withdelete-on-termination. Example: -a eni-attach-09703260delete-on-termination false	Yes
delete-on-termination BOOLEAN	Sets whether the network interface shall be deleted when the network interface is detached. Type: String Default: None Constraints: Must be used in conjunction withattachment. Example: -a eni-attach-09703260 -delete-on-termination false	Yes
source-dest-check BOOLEAN	Sets whether to enable the source/dest check on traffic through this network interface. Type: String Default: None Constraints: Valid options are 'true' and 'false'. Example:source-dest-check false	Yes

Name	Description	Required
group-id GROUP_ID	Replace the security groups for this network interface. Type: String Default: None Example:group-id sg-b90619d5 –groupd id sg-a92639c9	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.

Option	Description
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>

Output

The command returns the name of the attribute that was modified.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example adds a description to the network interface.

```
PROMPT> ec2-modify-network-interface-attribute eni-b35da6da -d "This is an ENI"

NETWORKINTERFACE eni-b35da6da description
```

This example turns off source/destination checking for network traffic across the network interface.

```
PROMPT> ec2-modify-network-interface-attribute eni-b35da6da --source-dest-check false

NETWORKINTERFACE eni-b35da6da sourceDestCheck

SOURCEDESTCHECK false
```

This example changes the security group for the specified network interface.

```
PROMPT> ec2-modify-network-interface-attribute eni-b35da6da --group-id sg-8ealbce2

NETWORKINTERFACE eni-b35da6da group

GROUPID sg-8ealbce2
```

This example retains the network interface when it is detached from an instance.

```
PROMPT> ec2-modify-network-interface-attribute eni-b35da6da --delete-on-termin ation false -a eni-attach-083fda61

NETWORKINTERFACE eni-b35da6da attachment
```

- ec2-create-network-interface (p. 89)
- ec2-delete-network-interface (p. 146)
- ec2-describe-network-interfaces (p. 248)
- ec2-describe-network-interface-attribute (p. 254)

- ec2-attach-network-interface (p. 28)
- ec2-detach-network-interface (p. 337)
- ec2-reset-network-interface-attribute (p. 443)

ec2-modify-snapshot-attribute

Description

Adds or remove permission settings for the specified snapshot.

The short version of this command is ec2msnapatt.



Note

Snapshots with AWS Marketplace product codes cannot be made public.

Syntax

ec2-modify-snapshot-attribute snapshot_id -c [--add entity | --remove entity]

Name	Description	Required
snapshot_id	The ID of the snapshot.	Yes
	Type: String	
	Default: None	
	Example: snap-78a54011	
-c,	Modifies the create volume permissions of the	Yes
create-volume- permission	snapshot.	
permission	Type: String	
	Default: None	
	Example: -c	
-a,add entity	Adds a permission for the specified AWS account or	
	for all accounts.	
	Type: String	
	Valid Values: AWS account identifier all	
	Default: None	
	Example: -cadd all	
remove entity	Removes a permission for the specified AWS account	
	or for all accounts.	
	Type: String	
	Valid Values: AWS account identifier all	
	Default: None	
	Example: -cremove all	

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- · createVolumePermission Identifier
- · Snapshot ID
- · Account IDs or 'all'
- · Attribute type identifier
- ID of the snapshot on which attributes are being modified
- · Action performed on the attribute
- · Attribute or attribute list item value type
- Attribute or attribute list item value

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example makes the snap-78a54011 snapshot public.

PROMPT> ec2-modify-snapshot-attribute snap-7ddb6e14 -c --add 123456789012 createVolumePermission snap-7ddb6e14 ADD userId 123456789012

- ec2-describe-snapshot-attribute (p. 279)
- ec2-describe-snapshots (p. 282)
- ec2-reset-snapshot-attribute (p. 445)
- ec2-create-snapshot (p. 101)

ec2-modify-volume-attribute

Description

Modifies a volume attribute.

By default, all I/O operations for the volume are suspended when the data on the volume is determined to be potentially inconsistent, to prevent undetectable, latent data corruption. The I/O access to the volume can be resumed by first issuing the ec2-enable-volume-io (p. 351) command to enable I/O access and then checking the data consistency on your volume.

You can change the default behavior to resume I/O operations without issuing the ec2-enable-volume-io (p. 351) command by setting the auto-enable-io attribute of the volume to true. We recommend that you change this attribute only for volumes that are stateless or disposable, or for boot volumes.

The short version of this command is ec2mvolatt.

Syntax

ec2-modify-volume-attribute volume_id ... --attribute_flag ATTRIBUTE_VALUE

Options

Name	Description	Required
volume_id	The ID of the volume. Type: String Example: vol-4282672b	Yes
-aauto-enable-io	Set whether or not the specified volume should be auto-enabled for I/O operations. Example:auto-enable-io true	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- ID of the volume
- A Boolean value for the attribute

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example modifies the attribute of the volume vol-999999.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-modify-volume-attribute vol-999999 --auto-enable-io true

VolumeId Attribute vol-999999 autoEnableIo AUTO-ENABLE-IO true

- ec2-describe-volume-status (p. 316)
- ec2-describe-volume-attribute (p. 313)
- ec2-enable-volume-io (p. 351)

ec2-monitor-instances

Description

Enables monitoring for a running instance. For more information, go to Monitoring Your Instances and Volumes in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2min.

Syntax

ec2-monitor-instances instance_id [instance_id...]

Options

Name	Description	Required
instance_id	Instance ID. Type: String Default: None Example: i-43a4412a	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Instance ID
- · Monitoring state

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example enables monitoring for i-43a4412a and i-23a3397d.

```
PROMPT> ec2-monitor-instances i-43a4412a i-23a3397d i-43a4412a monitoring-pending i-23a3397d monitoring-pending
```

- ec2-unmonitor-instances (p. 475)
- ec2-run-instances (p. 457)

ec2-purchase-reserved-instances-offering

Description

Purchases a Reserved Instance for use with your account. With Amazon EC2 Reserved Instances, you purchase the right to launch Amazon EC2 instances for a period of time (without getting insufficient capacity errors) and pay a lower usage rate for the actual time used.

Starting with the 2011-11-01 API version, AWS expanded its offering of Amazon EC2 Reserved Instances to address a range of projected instance use. There are three types of Reserved Instances based on customer utilization levels: *Heavy Utilization, Medium Utilization*, and *Light Utilization*. You determine the type of the Reserved Instances offerings by including the optional <code>offering-type</code> parameter when calling <code>ec2-describe-reserved-instances-offerings</code>. After you've identified the Reserved Instance with the offering type you want, specify its <code>--offering</code> when you call <code>ec2-purchase-reserved-instances-offering</code>.

The Medium Utilization offering type is equivalent to the Reserved Instance offering available before API version 2011-11-01. If you are using tools that predate the 2011-11-01 API version, ec2-describe-reserved-instances-offerings will only list information about the Medium Utilization Reserved Instance offering type.

For more information about Reserved Instances, go to Reserved Instances in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2prio.

Syntax

ec2-purchase-reserved-instances-offering --offering offering --instance-count count

Options

Name	Description	Required
-o,offering offering	The offering ID of the Reserved Instance to purchase. Type: String Default: None Example: -o 4b2293b4-5813-4cc8-9ce3-1957fc1dcfc8	Yes
-c, instance-count count	The number of Reserved Instances to purchase. Type: Integer Default: 1 Example: -c 5	Yes

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- RESERVEDINSTANCES identifier
- The ID(s) of the purchased Reserved Instances

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example illustrates a purchase of a Reserved Instances offering.

PROMPT> ec2-purchase-reserved-instances-offering --offering 649fd0c8-becc-49d9-b259-fc8e2aa08833 --instance-count 3

RESERVEDINSTANCES b847fa93-0c31-405b-b745-b6bf00032333
b847fa93-0c31-405b-b745-b6bf00032334 b847fa93-0c31-405b-b745-b6bf00032335

- ec2-describe-reserved-instances-offerings (p. 268)
- ec2-describe-reserved-instances (p. 263)

ec2-reboot-instances

Description

Requests a reboot of one or more instances. This operation is asynchronous; it only queues a request to reboot the specified instance(s). The operation will succeed if the instances are valid and belong to you. Requests to reboot terminated instances are ignored.



Note

If a Linux/UNIX instance does not cleanly shut down within four minutes, Amazon EC2 will perform a hard reboot.

The short version of this command is ec2reboot.

Syntax

ec2-reboot-instances instance_id [instance_id ...]

Options

Name	Description	Required
instance_id	One or more instance IDs of instances to be rebooted. Type: String Default: None Example: i-3ea74257	Yes

Option	Description
region REGION	Overrides the Region specified in the $EC2_URL$ environment variable and the URL specified by the $-U$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

• This command displays no output on success

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example reboots an instance.

PROMPT> ec2-reboot-instances i-28a64341

Amazon Elastic Compute Cloud CLI Reference Related Operations

Related Operations

• ec2-run-instances (p. 457)

ec2-register

Description

Registers a new AMI with Amazon EC2. When you're creating an AMI, this is the final step you must complete before you can launch an instance from the AMI. For more information about creating AMIs, go to Creating Your Own AMIs in the Amazon Elastic Compute Cloud User Guide.



Note

For Amazon EBS-backed instances, the ec2-create-image command creates and registers the AMI in a single request, so you don't have to register the AMI yourself.

You can also use the ec2-register-image action to create an EBS-backed AMI from a snapshot of a root device volume. For more information, go to Launching an Instance from a Snapshot in the *Amazon Elastic Compute Cloud User Guide*.

If needed, you can deregister an AMI at any time. Any modifications you make to an AMI backed by Amazon S3 invalidates its registration. If you make changes to an image, deregister the previous image and register the new image.

The short version of this command is ec2reg.



Note

You cannot register an image where a secondary (non-root) snapshot has AWS Marketplace product codes.

Syntax

```
ec2-register {[manifest] -n name [-a architecture] [-b mapping [...]] [-d
description] [-s snapshot_id] [--kernel kernel_id] [--ramdisk ramdisk_id]
[--root-device-name name]}
```

Options

Name	Description	Required
manifest	Full path to your AMI manifest in Amazon S3 storage. Type: String Default: None Condition: Required if registering an Amazon-S3 backed AMI. Example: myawsbucket/image.manifest.xml	Conditional

Amazon Elastic Compute Cloud CLI Reference Options

Name	Description	Required
-n,name <i>name</i>	A name for your AMI. Type: String Default: None Constraints: 3-128 alphanumeric characters, parenthesis (()), commas (,), slashes (/), dashes (-), or underscores(_) Example: -n "Standard Web Server"	Yes
-d,description description	The description of the AMI. Type: String Default: None Constraints: Up to 255 characters. Example: -d "Standard Web Server AMI"	No
-a,architecture architecture	The architecture of the image. Type: String Valid Values: i386 x86_64 Default: None Example: -a i386	No
kernel	The ID of the kernel associated with the image. Type: String Default: None Example:kernel aki-ba3adfd3	No
ramdisk	The ID of the RAM disk to associate with the image. Some kernels require additional drivers at launch. Check the kernel requirements for information on whether you need to specify a RAM disk. To find kernel requirements, refer to the Resource Center and search for the kernel ID. Type: String Default: None Example:ramdisk ari-badbad00	No
root-device-name name	The root device name (e.g., /dev/sda1, or xvda). Type: String Default: /dev/sda1 Condition: Required if registering an Amazon EBS-backed AMI. Example:root-device-name /dev/sda1	No

Amazon Elastic Compute Cloud CLI Reference Options

Name	Description	Required
-b, block-device-mapping mapping	Defines a block device mapping for the instance. This argument is passed in the form of devicename = devicename is the device name of the physical device on the instance to map. The blockdevice can be one of the following values:	Conditional
	none - specifies that the existing mapping on the specified image for this device should be suppressed. For example: /dev/sdc=none	
	ephemeral[03] - indicates that an instance local storage device should be mapped to this device. Example: /dev/sdc=ephemeral0	
	• [snapshot-id]:[size]:[delete-on-termination (true false)] - this value can be used to map a device to an existing EBS-backed volume by specifying an existing volume name. You can specify a new EBS-backed volume by skipping the snapshot ID and passing in a volume size instead; for example: /dev/sdb=:20. You can also specify whether the Amazon EBS volume should be deleted on termination; this value is true by default.	
	Note	
	The devicemapping argument must be surrounded by double quotes on Windows systems.	
	You may specify multiple blockdevicemapping arguments in one call. For more detailed information on block device mapping, go to Block Device Mapping in the Amazon	
	Elastic Compute Cloud User Guide. Type: String Default: None	
	Condition: If registering an Amazon EBS-backed AMI from a snapshot, you must at least specify this parameter with the root device name (e.g., /dev/sda1, or xvda), and the snapshot ID.	
	Example: -b "/dev/sda1=snap-7eb96d16"	
-s,snapshot snapshot	The ID of the Amazon EBS snapshot to be used as the root device. Type: String Default: None	No
	Example: -s snap-78a54011	

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- IMAGE identifier
- Unique ID of the newly registered machine image

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example registers the AMI specified in the image.manifest.xml manifest file, located in the bucket named myawsbucket.

```
PROMPT> ec2-register myawsbucket/image.manifest.xml -n MyImage IMAGE ami-78a54011
```

Example Request

This example registers an Amazon EBS snapshot to create an AMI backed by Amazon EBS.

```
PROMPT> ec2-register -n MyImage -s snap-65e34ab22
IMAGE ami-78a54023
```

Example Request

This example registers the AMI with an Amazon EBS snapshot as the root device, a separate snapshot as a secondary device, and an empty 100 GiB Amazon EBS volume as a storage device.

```
PROMPT> ec2-register -n MyImage -s snap-6e3ad879 -b /dev/sdb=snap-823ea6df -b /dev/sdc=:100
IMAGE ami-78a54043
```

- ec2-describe-images (p. 211)
- ec2-deregister (p. 176)
- ec2-run-instances (p. 457)

ec2-release-address

Description

Releases an Elastic IP address allocated to your account.

This command applies to both EC2 Elastic IP addresses and VPC Elastic IP addresses. For information about VPC addresses and how they differ from EC2 addresses, go to the Elastic IP Addresses in the *Amazon Virtual Private Cloud User Guide*.

If you run this action on an Elastic IP address that is already released, the address might be assigned to another account, which will cause Amazon EC2 to return an error (AuthFailure).



Note

For EC2 addresses only: Releasing an IP address automatically disassociates it from any instance it's associated with. To disassociate an IP address without releasing it, use the ec2-diassociate-address command.

If you try to release a VPC address that's associated with an instance, Amazon EC2 returns an error (InvalidIPAddress.InUse).



Important

After releasing an Elastic IP address, it is released to the IP address pool and might be unavailable to your account. Make sure to update your DNS records and any servers or devices that communicate with the address.

The short version of this command is ec2reladdr.

Syntax

ec2-release-address [ip_address | -a allocation_id]

Options

Name	Description	Required
ip_address	The EC2 Elastic IP address to release. Type: String Default: None Condition: Required for EC2 Elastic IP addresses. Example: 192.0.2.1	Conditional
-a,allocation-id allocation_id	The allocation ID that AWS provided when you allocated the address for use with Amazon VPC. Type: String Default: None Condition: Required for VPC Elastic IP addresses. Example: -a eipalloc-5723d13e	Conditional

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ADDRESS")
- Elastic IP address that you are releasing

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example releases an EC2 Elastic IP address.

```
PROMPT> ec2-release-address 192.0.2.1
ADDRESS 192.0.2.1
```

Example Request

This example releases a VPC Elastic IP address associated with the account.

```
PROMPT> ec2-release-address -a eipalloc-5723d13e
ADDRESS eipalloc-5723d13e
```

- ec2-allocate-address (p. 12)
- ec2-describe-addresses (p. 178)
- ec2-associate-address (p. 15)
- ec2-disassociate-address (p. 345)

ec2-replace-network-acl-association

Description

Changes which network ACL a subnet is associated with. By default when you create a subnet, it's automatically associated with the default network ACL. For more information about network ACLs, go to Network ACLs in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is **ec2repnaclassoc**.

Syntax

ec2-replace-network-acl-association network_acl_association_id -a network_acl_id

Options

Name	Description	Required
network_acl_associat ion_id	The ID representing the current association between the original network ACL and the subnet. Type: String Default: None Example: aclassoc-33ae4b5a	Yes
-a,network-acl network_acl_id	The ID of the new ACL to associate with the subnet. Type: String Default: None Example: -a acl-10b95c79	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ASSOCIATION")
- The new association ID and the network ACL ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example starts with a network ACL associated with a subnet, and a corresponding association ID aclassoc-e5b95c8c. You want to associate a different network ACL (acl-5fb85d36) with the subnet. The result is a new association ID representing the new association.

PROMPT> ec2-replace-network-acl-association aclassoc-e5b95c8c -a acl-5fb85d36 ASSOCIATION aclassoc-17b85d7e acl-5fb85d36

- ec2-create-network-acl (p. 82)
- ec2-delete-network-acl (p. 141)
- ec2-describe-network-acls (p. 243)

ec2-replace-network-acl-entry

Description

Replaces an entry (i.e., rule) in a network ACL. For more information about network ACLs, go to Network ACLs in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is **ec2repnae**.

Syntax

```
ec2-replace-network-acl-entry acl_id -n rule_number [--egress] -P protocol -r
cidr [-p port_range] [-t icmp_type_code] { --allow | --deny }
```

Options

Name	Description	Required
acl_id	ID of the ACL where the entry will be replaced. Type: String Default: None Example: acl-5fb85d36	Yes
-n,rule-number rule_number	Rule number of the entry to replace. Type: Number Default: None Example: -n 100	Yes
egress	Optional flag to indicate to replace the egress rule. Default: If no value is specified, we replace the ingress rule	No
-P,protocol protocol	IP protocol. You can specify all or -1 to mean all protocols. Type: String Valid Values: all -1 tcp udp icmp or any protocol number (for a list, go to Protocol Numbers). Example: -P 6	Yes
-r,cidr cidr	The CIDR range to allow or deny, in CIDR notation. Type: String Default: None Example: -r 172.16.0.0/24	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-p,port-range port_range	For the TCP or UDP protocols, this specifies the range of ports to allow. Type: String Default: None Valid Values: A single integer or a range (min-max). You can specify -1 to mean all ports (i.e. port range 0-65535). Condition: Required if specifying top or udp (or the equivalent number) for the protocol. Example: -p 80-84	Conditional
-t, icmp-type-code icmp_type_code	For the ICMP protocol, this specifies the ICMP type and code using format type:code, where both are integers. You can use -1 for the type or code to mean all types or all codes Type: String Default: None Condition: Required if specifying icmp (or the equivalent number) for the protocol. Example: -t -1:-1	Conditional
allow	Specifies that any traffic matching the rule is allowed. Condition: Eitherallow ordeny must be specified, but not both.	Conditional
deny	Specifies that any traffic matching the rule is denied. Condition: Eitherallow ordeny must be specified, but not both.	Conditional

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example replaces the egress entry numbered 110 in the network ACL with ID acl-2cb85d45. The new rule denies egress traffic destined for anywhere (0.0.0.0/0) on TCP port 139.

```
PROMPT> ec2-replace-network-acl-entry acl-2cb85d45 -n 110 --egress -r 0.0.0.0/0 -P tcp -p 139 --deny
RETURN true
```

- ec2-delete-network-acl-entry (p. 143)
- ec2-create-network-acl-entry (p. 85)
- ec2-describe-network-acls (p. 243)

ec2-replace-route

Description

Replaces an existing route within a route table in a VPC. For more information about route tables, go to Route Tables in the *Amazon Virtual Private Cloud User Guide*.

The short version of this command is ec2reprt.

Syntax

ec2-replace-route route_table_id -r cidr {-g gateway_id | -i instance_id | -n,
--network-interface NETWORKINTERFACE}

Options

Name	Description	Required
route_table_id	The ID of the route table where the route will be replaced. Type: String Default: None Example: rtb-5da34634	Yes
-r,cidr cidr	The CIDR address block used for the destination match. Routing decisions are based on the most specific match. Type: String Default: None Example: -r 0.0.0.0/0	Yes
-g,gateway gateway_id	The ID of a gateway in your VPC. Type: String Default: None Condition: You must provide one of the following: a gateway ID, instance ID, or a network interface ID. Example: -g igw-68a34601	Conditional
-i,instance instance_id	The ID of a NAT instance in your VPC. Type: String Default: None Condition: You must provide one of the following: a gateway ID, instance ID, or a network interface ID. Example: -i i-a7c871e3	Conditional

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-n,network-interface NETWORKINTERFACE	The network interface associated with the route.	Conditional
	Type: String	
	Default: None	
	Condition: You must provide one of the	
	following: a gateway ID, instance ID, or a network interface.	
	Example: -n eni-5b729933	

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2.
ECZ-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>

Output

The command returns a table that contains the following information:

· Boolean true or false

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example replaces a route in the route table with ID rtb-e4ad488d. The new route matches the CIDR 10.0.0.0/8 and sends it to the virtual private gateway with ID vgw-1d00376e.

```
PROMPT> ec2-replace-route rtb-e4ad488d -r 10.0.0.0/8 -g vgw-1d00376e RETURN true
```

- ec2-create-route (p. 95)
- ec2-delete-route (p. 150)
- ec2-describe-route-tables (p. 274)

ec2-replace-route-table-association

Description

Changes the route table associated with a given subnet in a VPC.

You can also use this to change which table is the main route table in the VPC. You just specify the main route table's association ID and the route table that you want to be the new main route table.

After you execute this action, the subnet uses the routes in the new route table it's associated with. For more information about route tables, go to Route Tables in the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2reprtbassoc.

Syntax

ec2-replace-route-table-association route_table_association_id -r route_table_id

Options

Name	Description	Required
route_table_associat ion_id	The ID for the existing association to replace (which was returned to you when you associated the original route table with subnet). Type: String Default: None Example: rtbassoc-93a045fa	Yes
-r route_table_id	The ID of the new route table to associate with the subnet. Type: String Default: None Example: -r rtb-6aa34603	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
	LAAIIPIG0 IICCPS.//ecz.amazonaws.com

Amazon Elastic Compute Cloud CLI Reference Output

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("ASSOCIATION")
- The new association ID
- The route table ID

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example starts with a route table associated with a subnet, and a corresponding association ID rtbassoc-f8ad4891. You want to associate a different route table (table rtb-f9ad4890) to the subnet. The result is a new association ID representing the new association.

PROMPT> ec2-replace-route-table-association rtbassoc-f8ad4891 -r rtb-f9ad4890 ASSOCIATION rtbassoc-61a34608 rtb-f9ad4890

- ec2-create-route-table (p. 98)
- ec2-disassociate-route-table (p. 348)
- ec2-delete-route-table (p. 153)
- ec2-describe-route-tables (p. 274)
- ec2-replace-route-table-association (p. 423)

ec2-report-instance-status

Description

Reports the status for instances that you own.

Use this action to report an instance's status. This action works only for instances that are in the running state. If you disagree with the instance status returned by the ec2-report-instance-status action, use ec2-report-instance-status command to report a more accurate status. Amazon EC2 collects this information to improve the accuracy of status checks.



Note

Use of this action does not change the value returned by ec2-report-instance-status.

To report an instance's status, specify an instance ID with the INSTANCE parameter and a reason code with the --reason parameter that applies to that instance. The following table contains descriptions of all available reason codes.

Reason Code	Description
instance-stuck-in-state	My instance is stuck in a state.
unresponsive	My instance is unresponsive.
not-accepting-credentials	My instance is not accepting my credentials.
password-not-available	A password is not available for my instance.
performance-network	My instance is experiencing performance problems which I believe are network related.
performance-instance-store	My instance is experiencing performance problems which I believe are related to the instance stores.
performance-ebs-volume	My instance is experiencing performance problems which I believe are related to an EBS volume.
performance-other	My instance is experiencing performance problems.
other	Other, explained in the submitted description parameter.

The short version of this command is ec2rep.

Syntax

ec2-report-instance-status [instance_id ...] [[--filter name=value] ...]

Amazon Elastic Compute Cloud CLI Reference Options

Options

Name	Description	Required
instance_id	Instance IDs to describe. Type: String Example: i-15a4417c	Yes
status	The status of all instances listed in the <code>instance_id</code> parameter. Type: String Valid Values: ok impaired	Yes
reason	A reason code that describes a specific instance's health state. Each code you supply corresponds to an instance ID that you supply with the InstanceID.n parameter. See the Description (p. 426) section for descriptions of each reason code. Type: String Valid Values: instance-stuck-in-state unresponsive not-accepting-credentials password-not-available performance-network performance-instance-store performance-instance-store performance-ebs-volume performance-other other	Yes
start-time	The time at which the reported instance health state began. The date uses the format: yyyy-MM-dd'T'HH:mm:ss Type: DateTime Example: 2011-07-25T14:00:00	No
end-time	The time at which the reported instance health state ended. The date uses the format: yyyy-MM-dd'T'HH:mm:ss Type: DateTime Example: 2011-07-25T14:00:00	No
description	Descriptive text about the instance health state. Type: String Default: None	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -u option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- The request ID
- A Boolean return value that indicates whether Amazon EC2 accepted the values.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example reports the current state of the instance as impaired.

PROMPT> ec2-report-instance-status i-15a4417c --status="impaired" --reason="un responsive"

Related Operations

• ec2-describe-instance-status (p. 231)

ec2-request-spot-instances

Description

Creates a Spot Instance request. Spot Instances are instances that Amazon EC2 starts on your behalf when the maximum price that you specify exceeds the current Spot Price. Amazon EC2 periodically sets the Spot Price based on available Spot Instance capacity and current Spot Instance requests. For more information about Spot Instances, go to Spot Instances in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is ec2rsi.

Syntax

ec2-request-spot-instances ami_id --addressing addressing_type --price price [--instance-count count] [--type type] [--valid-from timestamp] [--valid-until timestamp] [--launch-group group] [--availability-zone-group group] [--user-data data | --user-data-file data-file] [--group group [--group group ...]] [--key key-pair] [--instance-type type] [--subnet subnet_id] [--availability-zone zone] [--kernel kernel] [--ramdisk ramdisk] [--block-device-mapping mapping] [--monitor]

Options

Name	Description	Required
ami_id	The AMI ID. Type: String Default: None Example: ami-2bb65342	Yes
-p,price price	Specifies the maximum hourly price for any Spot Instance launched to fulfill the request. Type: String Default: None Example: -p .15	Yes
-n, instance-count	The maximum number of Spot Instances to launch. Type: xs:integer Default: 1 Example: -n 10	No
-r,type <i>type</i>	Specifies the Spot Instance request type. Type: String Valid Values: one-time persistent Default: one-time Example: -r persistent	No

Name	Description	Required
-s,subnet subnet_id	Specifies the ID of the Amazon VPC subnet in which to launch the Spot Instance. Type: String Default: None Example: -s subnet-baab943d3	No
valid-from <i>date</i>	Start date of the request. If this is a one-time request, the request becomes active at this date and time and remains active until all instances launch, the request expires, or the request is canceled. If the request is persistent, the request becomes active at this date and time and remains active until it expires or is canceled. Type: DateTime Default: Request is effective indefinitely. Example:valid-from 2009-12-31T11:51:50	No
valid-until date	End date of the request. If this is a one-time request, the request remains active until all instances launch, the request is canceled, or this date is reached. If the request is persistent, it remains active until it is canceled or this date and time is reached. Type: DateTime Default: Request is effective indefinitely. Example:valid-until 2009-12-31T11:51:50	No
launch-group group	Specifies the instance launch group. Launch groups are Spot Instances that launch together and terminate together. Type: String Default: Instances are launched and terminated individually. Example:launch-group Skynet	No

Name	Description	Required
availability-zone-group group	The user-specified name for a logical grouping of bids. When you specify $availability-zone-group$ in a Spot Instance request, all Spot Instances in the request are launched in the same Availability Zone. Instance proximity is maintained with this parameter, but choice of Availability Zone is not. $availability-zone-group$ applies only to bids for Spot Instances of the same instance type. Any additional Spot Instance requests that are specified with the same $availability-zone-group$ name will be launched in that same Availability Zone, as long as at least one instance from the group is still active. If there is no active instance running in the Availability Zone group that you specify for a new Spot Instance request (i.e., all instances are terminated, the bid is expired, or the bid falls below current market), then Amazon EC2 will launch the instance in any Availability Zone where the constraint can be met. Consequently, the subsequent set of Spot Instances could be placed in a different zone from the original request, even if the same $availability-zone-group$ name was specified. To ensure that all Spot Instances across all bids are launched into a particular Availability Zone, specify LaunchSpecification.Placement.AvailabilityZone in the API or $availability-zone$ in the CLI. Type: String Default: Instances are launched in any available Availability Zone. Example:availability-zone-group batchGroup01	No
placement-group group_name	The name of an existing placement group you want to launch the instance into (for cluster instances). Type: String Default: Instances are launched in the default placement group. Example:placement-group default	No
-d,user-data user_data	Specifies the user data that will be made available to the instances. Type: String Default: None Example: -d "My user data"	No
-g,group <i>group</i>	Name of the security group. Type: String Default: User's default group. Example: -g websrv	No

Name	Description	Required
-k,key key_name	The name of the key pair. Type: String Default: None Example: -k MyKeyPair	No
-t,instance-type instance_type	Specifies the instance type. Type: String Valid Values: m1.small m1.large m1.xlarge c1.medium c1.xlarge m2.xlarge m2.2xlarge m2.4xlarge t1.micro Default: m1.small Example: -t m1.large	No
-z, availability-zone zone	The placement constraint (i.e., specific Availability Zone) for launching the instances. Specify if you want all of the Spot Instances in all of your bids to be launched in a particular Availability Zone. Specifying this option requires Amazon EC2 to find capacity in the specified Availability Zone instead of letting Amazon EC2 pick the best Availability Zone available; this can potentially delay the fulfillment of your bid, and/or require a higher bid price. Type: String Default: Amazon EC2 selects an Availability Zone in the current Region. Example: -z us-east-1b	No
kernel kernel	The ID of the kernel to select. Type: String Default: None Example:kernel aki-ba3adfd3	No
ramdisk ramdisk	The ID of the RAM disk to select. Some kernels require additional drivers at launch. Check the kernel requirements for information on whether you need to specify a RAM disk and search for the kernel ID. Type: String Default: None Example:ramdisk ari-badbad00	No

Name	Description	Required
-b, block-device-mapping mapping	Defines a block device mapping for the instance. This argument is passed in the form of <pre><devicename>=<blockdevice>.The devicename</blockdevice></devicename></pre> is the device name of the physical device on the instance to map. The blockdevice can be one of the following values:	No
	none - specifies that the existing mapping on the specified image for this device should be suppressed. For example: /dev/sdc=none	
	ephemeral[03] - indicates that an instance local storage device should be mapped to this device. Example: /dev/sdc=ephemeral0	
	• [snapshot-id]:[size]:[delete-on-termination (true false)] - this value can be used to map a device to an existing EBS-backed volume by specifying an existing volume name. You can specify a new EBS-backed volume by skipping the snapshot ID and passing in a volume size instead; for example: /dev/sdb=:20. You can also specify whether the Amazon EBS volume should be deleted on termination; this value is true by default.	
	Note The device mapping argument must be surrounded by double quotes on Windows systems.	
	You may specify multiple blockdevicemapping arguments in one call.	
	For more detailed information on block device mapping, go to Block Device Mapping in the Amazon Elastic Compute Cloud User Guide. Type: String Default: None Example: -b "/dev/sdb=snap-92d333fb::false"	
monitor	Enables monitoring for the instance. Type: String Default: Disabled Example:monitor	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the ${\tt -U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("SPOTINSTANCEREQUEST")
- ID of the Spot Instance request
- Price
- Type (one-time or persistent)
- Product description (Linux/UNIX, Windows)
- State (active, open, closed, cancelled, failed)
- · Create time
- · Valid from
- Valid until
- · Launch group
- · Availability Zone group
- Image ID
- Instance type
- · Key pair name
- · Security group
- · Monitoring status

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example creates a Spot Instances request for three m1.small instances.

```
PROMPT> ec2-request-spot-instances ami-b232d0db -p 0.04 --key gsg-keypair --
group default --instance-type m1.small -n 3 --type one-time
SPOTINSTANCEREQUEST sir-7545a802 0.04
                                                           Linux/UNIX
                                           one-time
 open 2010-04-07T16:57:04+0200
ami-b232d0db
             m1.small gsg-keypair
                                      default
                                                                    mon
itoring-disabled
SPOTINSTANCEREQUEST
                     sir-26d36202
                                    0.04
                                            one-time Linux/UNIX
 open 2010-04-07T16:57:04+0200
                                     default
ami-b232d0db
             ml.small gsg-keypair
                                                                    mon
itoring-disabled
SPOTINSTANCEREQUEST
                     sir-63fb5402
                                    0.04
                                           one-time
                                                         Linux/UNIX
 open 2010-04-07T16:57:04+0200
ami-b232d0db
                                      default
              m1.small gsg-keypair
                                                                    mon
itoring-disabled
```

Related Operations

- ec2-describe-spot-instance-requests (p. 289)
- ec2-cancel-spot-instance-requests (p. 55)
- ec2-describe-spot-price-history (p. 295)

ec2-reset-image-attribute

Description

Resets an attribute of an AMI to its default value.



Note

The productCodes attribute cannot be reset.

The short version of this command is ec2rimatt.

Syntax

ec2-reset-image-attribute ami_id -1

Options

Name	Description	Required
ami_id	ID of the AMI on which the attribute will be reset. Type: String Default: None Example: ami-15a4417c	Yes
-1, launch-permission	Describes the launch permissions of the AMI. Type: String Default: None Example: -I	No

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Option	Description
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- · Attribute type identifier
- ID of the AMI on which the attribute is being reset
- Action identifier ("RESET")

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example resets the launchPermission attribute.

PROMPT> ec2-reset-image-attribute ami-6ba54002 -1 launchPermission ami-6ba54002 RESET

Related Operations

- ec2-modify-image-attribute (p. 379)
- ec2-describe-image-attribute (p. 208)

ec2-reset-instance-attribute

Description

Resets an attribute of an instance to its default value. To reset the kernel or RAM disk, the instance must be in a stopped state. To reset the SourceDestCheck, the instance can be either running or stopped.

The SourceDestCheck attribute exists to enable a Network Address Translation (NAT) instance in a VPC to perform NAT. The attribute controls whether source/destination checking is enabled on the instance. The default value is true, which means checking is enabled. The value must be false for the instance to perform NAT. For more information, go to NAT Instances in the Amazon Virtual Private Cloud User Guide.

The short version of this command is ec2rinatt.

Syntax

ec2-reset-instance-attribute instance_id { --kernel kernel_id | --ramdisk
ramdisk_id | --source-dest-check }

Options

Name	Description	Required
instance_id	ID of the instance on which the attribute will be reset. Type: String Default: None Example: i-43a4412a	Yes
kernel	Resets the ID of the kernel. Type: String Default: None Example:kernel	No
ramdisk	Resets the ID of the RAM disk. Type: String Default: None Example:ramdisk	No
source-dest-check	Resets the SourceDestCheck flag to true (which means source/destination checking is enabled). Type: String Default: None Example:source-dest-check	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url <i>URL</i>	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- · Attribute type identifier
- ID of the instance on which the attribute is being reset
- Action identifier ("RESET")

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example resets the kernel attribute.

PROMPT> ec2-reset-instance-attribute i-10a64379 --kernel kernel i-10a64379 RESET

Related Operations

- ec2-modify-instance-attribute (p. 383)
- ec2-describe-instance-attribute (p. 218)

ec2-reset-network-interface-attribute

Description

Resets a network interface attribute. Only one attribute can be specified per call.

The short version of this command is ec2rnicatt.

Syntax

ec2-reset-network-interface-attribute NETWORKINTERFACE --source-dest-check

Options

Name	Description	Required
source-dest-check	Sets the source/dest check to the default value. Type: String Default: True Constraints: Valid options are 'true' and 'false'. Example:source-dest-check	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the name of the network interface that was reset.

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example resets network interface attributes for the specified network interface.

PROMPT> ec2-reset-network-interface-attribute eni-b35da6da --source-dest-check sourceDestCheck eni-b35da6da RESET

Related Operations

- ec2-create-network-interface (p. 89)
- ec2-delete-network-interface (p. 146)
- ec2-describe-network-interfaces (p. 248)
- ec2-describe-network-interface-attribute (p. 254)
- ec2-attach-network-interface (p. 28)
- ec2-detach-network-interface (p. 337)
- ec2-modify-network-interface-attribute (p. 387)

ec2-reset-snapshot-attribute

Description

Resets permission settings for the specified snapshot.

The short version of this command is ec2rsnapatt.

Syntax

ec2-reset-snapshot-attribute snapshot_id -c

Options

Name	Description	Required
snapshot snapshot	The ID of the snapshot. Type: String Default: None Example: snap-78a54011	Yes
-c, create-volume- permission	Resets the create volume permissions of the snapshot. Type: String Default: None Example: -c	Yes

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Option	Description	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- createVolumePermission identifier
- · Snapshot ID
- Action identifier ("RESET")

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example resets the permissions for snap-78a54011, making it a private snapshot that can only be used by the account that created it.

PROMPT> ec2-reset-snapshot-attribute snap-7ddb6e14 createVolumePermission snap-7ddb6e14 RESET

Related Operations

- ec2-modify-snapshot-attribute (p. 391)
- ec2-describe-snapshot-attribute (p. 279)
- ec2-describe-snapshots (p. 282)
- ec2-create-snapshot (p. 101)

ec2-resume-import

Description

Resumes the upload of a disk image associated with an import instance or import volume task ID. Amazon EC2 supports import of VMDK, RAW, and VHD disk images.

If the upload task stops without completing, use this command to resume this upload. The upload task will resume from where it left off. For more information, go to Using the Command Line Tools to Import Your Virtual Machine to Amazon EC2 in the Amazon Elastic Compute Cloud User Guide.

The short version of this command is ec2rim.

Syntax

ec2-resume-import -t task_id -o owner -w secret_key [-x days] [--user-threads threads] [--part-size partsize] [--dry-run] [--dont-verify-format] disk_image_filename

Options

Name	Description	Required
disk_image_filename	The local file name of the disk image that you want to upload. Type: String Default: None Example: WinSvr8-32-disk1.vmdk	Yes
-t,task task_id	The conversion task ID for the upload. Type: String Default: None Example: -t import-i-ffvko9js	Yes
-o,owner-akid access_key_id	Access key ID of the bucket owner. Type: String Default: None Example: AKIAIOSFODNN7EXAMPLE	Yes
-w,owner-sak secret_access_key	Secret access key of the bucket owner. Type: String Default: None Example: wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
-x,expires days	Validity period for the signed Amazon S3 URLS that allow EC2 to access your file. Type: String Default: 30 days Example: -x 10	No

Name	Description	Required
user-threads threads	Maximum number of threads to concurrently upload the file with. Type: String Default: 20 Example:user-threads 15	No
part-size <i>partsize</i>	Size of each individual file part (in MB) that will be uploaded. The file will be split into multiple parts at most as large as the partsize parameter. Type: String Default: 8 Example:part-size 3	No
dry-run	Does not upload the file, only validates that the disk image matches a known type. Type: None Default: None Example:dry-run	No
dont-verify-format	Does not verify the file format. We don't recommend this option because it can result in a failed conversion. Type: None Default: None Example:dont-verify-format	No

Option	Description
region REGION	Overrides the Region specified in the ${\tt EC2_URL}$ environment variable and the URL specified by the $-{\tt U}$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem

Option	Description
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.
	Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the following information:

- · Disk image size and format
- Converted volume size
- · EBS volume size
- · Percent of the upload completed

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example uploads the corresponding disk image of the Windows Server 2008 (32-bit) VM you want to migrate.

PROMPT>ec2-resume-import ./WinSvr8-32-disk1.vmdk -t import-i-ffvko9js -o AKI AIOSFODNN7EXAMPLE -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY

Related Operations

- ec2-delete-disk-image (p. 130)
- ec2-import-instance (p. 361)
- ec2-import-volume (p. 370)
- ec2-describe-conversion-tasks (p. 189)
- ec2-cancel-conversion-task (p. 50)

ec2-revoke

Description

This command applies to both EC2 security groups and VPC security groups. For information about VPC security groups and how they differ from EC2 security groups, go to the Security Groups in the *Amazon Virtual Private Cloud User Guide*.

This command removes a *rule* from a security group. The rule can be for ingress traffic, or for egress traffic (only if this is a VPC security group).

The values that you specify in the revoke request (e.g., ports, etc.) must match the existing rule's values in order for the rule to be removed.

Each rule consists of the protocol (e.g., TCP), plus either a CIDR range, or a source group (for ingress rules) or destination group (for egress rules). For TCP and UDP, you must also specify the destination port or port ranges. You can specify -1 to mean all ports (i.e., port range 0-65535). For ICMP, you must also specify the ICMP type and code. You can use -1 for the type or code to mean all types or all codes.

Permission changes are propagated to instances within the security group as quickly as possible. However, a small delay might occur.

The short version of this command is ec2revoke.

Syntax

```
ec2-revoke group [--egress] [-P protocol] (-p port_range | -t icmp_type_code)
[-u source_or_dest_group_owner ...] [-o source_or_dest_group ...] [-s
source_or_dest_cidr ...]
```

Options

Name	Description	Required
group	For EC2 groups: Name or ID of the security group to modify. For VPC groups: ID of the security group to modify (e.g., sg-1a2b3c4d). The group must belong to your AWS account. Type: String Default: None Example: websrv	Yes
egress	Optional flag applicable only to VPC security groups. The flag designates the rule is an egress rule (i.e., controls traffic leaving the VPC security group). Default: If this is not specified, the rule applies to ingress traffic for the specified security group	No

Name	Description	Required
-P,protocol protocol	IP protocol name or number to revoke (go to Protocol Numbers). EC2 security groups can have rules only for TCP, UDP, and ICMP, whereas VPC security groups can have rules assigned to any protocol number. When you call ec2-describe-group, the protocol value returned is the number. Exception: For TCP, UDP, and ICMP, the value returned is the name (e.g., tcp, udp, or icmp). Type: String Valid Values for EC2 security groups: tcp udp icmp or the corresponding protocol number (6 17 1). Default for EC2 groups: Defaults to TCP if source CIDR is specified (or implied by default), or all three protocols (TCP, UDP, and ICMP) if source group is specified (to ensure backwards compatibility). Valid Values for VPC groups: tcp udp icmp or any protocol number (go to Protocol Numbers). Use all to specify all protocols. Condition: Required for VPC security groups. Example: -P udp	Conditional
-p port_range	For TCP or UDP, this specifies the range of ports to revoke. Type: String Default: None Valid Values: A single integer or a range (min-max). You can specify -1 to mean all ports (i.e., port range 0-65535). Condition: Required if specifying top or udp (or the equivalent number) for the protocol. Example: -p 80-84	Conditional
-t icmp_type_code	For ICMP, this specifies the ICMP type and code to revoke. This must be specified in the format type:code where both are integers. You can use -1 for the type or code to mean all types or all codes. Type: String Default: None Condition: Required if specifying icmp (or the equivalent number) for the protocol. Example: -t -1:-1	Conditional

Name	Description	Required
-u, source_or_dest_group_owner	AWS account ID that owns the source security group (for ingress rules) or destination security group (for egress rules). If the group is in your own account, set this to your own AWS account ID. Cannot be used when specifying a CIDR IP address. Type: String Default: None Condition: Required when revoking a rule that gives access to one or more source security groups. Example: -u 111122223333	Conditional
-o source_or_dest_group	The source security group (for ingress rules), or destination security group (for egress rules). When revoking a rule for a VPC security group, you must specify the group's ID (e.g., sg-9d4e5f6g) instead of its name. Cannot be used when specifying a CIDR IP address with the -s option. Type: String Default: None Condition: Required if revoking access to one or more source or destination security groups. Example: -o headoffice	Conditional
-s,cidr source_or_dest_cidr	CIDR range. Cannot be used when specifying a source or destination security group with the -o option. Type: String Default: 0.0.0.0/0 Constraints: Valid CIDR IP address range. Condition: Required if revoking access to one or more IP address ranges. Example: -s 205.192.8.45/24	Conditional

Option	Description
region REGION	Overrides the Region specified in the $EC2_URL$ environment variable and the URL specified by the $-U$ option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("GROUP", "PERMISSION")
- · Group name; currently, this will report an empty string
- Type of rule; currently, only ALLOW rules are supported
- Protocol to allow
- Start of port range
- End of port range
- FROM
- Source

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example revokes TCP port 80 access from the 205.192.0.0/16 address range for the websrv security group.

```
PROMPT> ec2-revoke websrv -P tcp -p 80 -s 205.192.0.0/16
GROUP websrv
PERMISSION websrv ALLOWS tcp 80 80 FROM CIDR 205.192.0.0/16
```

Related Operations

- ec2-create-group (p. 70)
- ec2-describe-group (p. 203)
- ec2-authorize (p. 37)
- ec2-delete-group (p. 133)

ec2-run-instances

Description

Launches a specified number of instances of an AMI for which you have permissions.

If Amazon EC2 cannot launch the minimum number of AMIs you request, no instances will be launched. If there is insufficient capacity to launch the maximum number of AMIs you request, Amazon EC2 launches the minimum number specified for each AMI and allocates the remaining available instances using round robin.



Note

Every instance is launched in a security group (which you create using the ec2-create-group command). If you don't specify a security group at launch time, the "default" security group is used.

For Linux instances, you can provide an optional key pair ID in the launch request (created using the ec2-create-keypair or ec2-import-keypair command). The instances will have access to the public key at boot. You can use this key to provide secure access to an instance of an image on a per-instance basis. Amazon EC2 public images use this feature to provide secure access without passwords.

The public key material is made available to the Linux instance at boot time by placing it in the $openssh_id.pub$ file on a logical device that is exposed to the instance as /dev/sda2 (the instance store). The format of this file is suitable for use as an entry within $\sim/.ssh/authorized_keys$ (the OpenSSH format). This can be done at boot (e.g., as part of rc.local) allowing for secure access without passwords.



Important

Launching public images without a key pair ID will leave them inaccessible.

You can provide optional user data in the launch request. All instances that collectively comprise the launch request have access to this data. For more information, go to Instance Metadata in the Amazon Elastic Compute Cloud User Guide.



Note

If any of the AMIs have a product code attached for which the user has not subscribed, the ec2-run-instances command will fail.

The short version of this command is ec2run.

Syntax

```
ec2-run-instances ami_id [-n instance_count] [-g group [-g group ...]] [-k keypair] [-d user_data |-f user_data_file] [--addressing addressing_type] [--instance-type instance_type] [--availability-zone zone] [--kernel kernel_id] [--ramdisk ramdisk_id] [--block-device-mapping block_device_mapping] [--monitor] [--disable-api-termination] [--instance-initiated-shutdown-behavior behavior] [--placement-group placement-group] [--tenancy tenancy] [--subnet subnet_id]
```

[--private-ip-address ip_address] [--client-token token] [--network-interface networkinterface]

Options

Name	Description	Required
ami_id	Unique ID of a machine image, returned by a call to ec2-describe-images. Type: String Default: None Example: ami-15a4417c	Yes
-n , instance-count min[-max]	The number of instances to launch. If Amazon EC2 cannot launch the specified number of instances, no instances will launch. If this is specified as a range (min-max), Amazon EC2 will try to launch the maximum number, but no fewer than the minimum number. Type: String Default: 1 Constraints: Between 1 and the maximum number allowed for your account (default: 20). Example: -n 5-10	No
-g,group <i>group</i>	Name of the security group. Type: String Default: None Example: -g websrv	No
-k,key <i>keypair</i>	The name of the key pair. Type: String Default: None Example: -k websvr-keypair	No
-d,user-data user_data	Specifies Base64-encoded MIME user data to be made available to the instance(s) in this reservation. Type: String Default: None Example: -d s3-bucket:my-logs	No
-f,user-data-file filename	Specifies the filename of the user data to be made available to the instance(s) in this reservation. Type: String Default: None Example: -f user-data.txt	No
addressing	Deprecated.	

Name	Description	Required
-t,instance-type	Specifies the instance type.	No
instance_type	Type: String	
	Valid Values: m1.small m1.medium m1.large	
	m1.xlarge c1.medium c1.xlarge m2.xlarge	
	m2.2xlarge m2.4xlarge cc1.4xlarge	
	cg1.4xlarge cc2.8xlarge t1.micro	
	Default: m1.small	
	Example: -t m1.large	
availability-zone	The Availability Zone in which to run the instance.	No
zone	Type: String	
	Default: None	
	Example:availability-zone us-east-1a	
kernel <i>kernel</i>	The ID of the kernel with which to launch the instance.	No
	Type: String	
	Default: None	
	Example:kernel aki-ba3adfd3	
ramdisk <i>ramdisk</i>	The ID of the RAM disk to select. Some kernels require	No
	additional drivers at launch. Check the kernel	
	requirements for information on whether you need to	
	specify a RAM disk. To find kernel requirements, refer to the Resource Center and search for the kernel ID.	
	Type: String	
	Default: None	
	Example:ramdisk ari-abcdef01	

Name	Description	Required
-b, block-device-mapping mapping	Defines a block device mapping for the instance. This argument is passed in the form of <pre><devicename>=<blockdevice>.The devicename</blockdevice></devicename></pre> is the device name of the physical device on the instance to map. The blockdevice can be one of the following values:	No
	none - specifies that the existing mapping on the specified image for this device should be suppressed. For example: /dev/sdc=none	
	ephemeral[03] - indicates that an instance local storage device should be mapped to this device. Example: /dev/sdc=ephemeral0	
	• [snapshot-id]:[size]:[delete-on-termination (true false)] - this value can be used to map a device to an existing EBS-backed volume by specifying an existing volume name. You can specify a new EBS-backed volume by skipping the snapshot ID and passing in a volume size instead; for example: /dev/sdb=:20. You can also specify whether the Amazon EBS volume should be deleted on termination; this value is true by default.	
	Note The device mapping argument must be surrounded by double quotes on Windows systems.	
	You may specify multiple blockdevicemapping arguments in one call.	
	For more detailed information on block device mapping, go to Block Device Mapping in the Amazon Elastic Compute Cloud User Guide. Type: String Default: None Example: -b "/dev/sdb=snap-92d333fb::false"	
-m,monitor	Enables monitoring for the instance. Type: Boolean Default: Disabled Example:monitor	No

Name	Description	Required
disable-api-termin ation	Disables the ability to terminate the instance using the EC2 API (i.e., "locks" the instance). To re-enable this ability, you must change the disableApiTermination attribute's value to false using ec2-modify-instance-attribute. Type: String Default: False (you can terminate the instance using the API) Example:disable-api-termination	No
instance-initiated -shutdown-behavior behavior	If an instance shutdown is initiated, this determines whether the instance stops or terminates. Type: String Valid Values: stop terminate Default: stop Example:instance-initiated-shutdown-behavior stop	No
placement-group placement-group	Name of the placement group. Type: String Valid Values: cluster Default: None Example:placement-group XYZ-cluster	No
tenancy tenancy	The tenancy of the instance you want to launch. An instance with a tenancy of dedicated runs on single-tenant hardware and can only be launched into a VPC. Type: String Valid Values: default dedicated Default: default Example:tenancy dedicated	No
-s,subnet subnet_id	If you're using Amazon Virtual Private Cloud, this specifies the ID of the subnet you want to launch the instance into. Type: String Default: None Example: -s subnet-f3e6ab83	No
private-ip-address ip_address	If you're using Amazon Virtual Private Cloud, you can optionally use this parameter to assign the instance a specific available IP address from the subnet. Type: String Default: Amazon VPC selects an IP address from the subnet for the instance Example:private-ip-address 10.0.0.25	No

Name	Description	Required
client-token token	Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, go to How to Ensure Idempotency in the Amazon Elastic Compute Cloud User Guide. Type: String Default: None Constraints: Maximum 64 ASCII characters Example:client-token 550e8400-e29b-41d4-a716-446655440000	No
-a,network-interface NETWORKINTERFACE	Specifies the network attachment for the launched instance. The format of the NETWORKINTERFACE definition is as follows: For an existing NETWORKINTERFACE - eni:dev index For a new NETWORKINTERFACE - dev index:subnet[:description[:priv IP[:SGs[:DOT]]]]] where SGs is a comma separated list of security group IDs and DOT is either true or false, denoting whether to delete the interface on terminate. Type: String Default: None Examples: Launch an instance with a specific interface for index 0 ec2run ami-0644f007 -a eni-d2b24dbb:0 Launch an instance and specify interfaces for both index 0 and index 1 ec2run ami-0644f007 -a eni-d2b24dbb:0 -a eni-12345678:1 Launch an instance and autocreate an interface for index 0 with details and a specific interface for index 1 ec2-run-instances ami-31814f58 -a :0:subnet-15ca247d:"My ENI" -a eni-12345678:1 Launch an instance with a specific interface for index 0 and autocreate an interface for index 1 with specific values ec2-run-instances ami-31814f58 -a eni-12345678:0 -a :1:subnet-15ca247d:"My ENI":10.0.0.10:sg-123456,sg-654321:false	No

Option	Description
region <i>REGION</i>	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Output type identifier ("INSTANCE")
- Instance ID which uniquely identifies each running instance
- AMI ID of the image on which the instance(s) are based
- Instance state. This is usually pending, which indicates that the instance(s) are preparing to launch
- Key pair name (if a key pair was associated with the instance at launch)
- · AMI launch index
- Product code (if the AMI has a product code)
- · Instance type
- · Instance launch time
- · Availability Zone
- Kernel ID
- · RAM disk ID
- · Monitoring status
- Root device type (ebs or instance-store)
- · Placement group the cluster instance is in
- The tenancy of the instance launched (if it is running within a VPC).
- Virtualization type (paravirtual or hvm)
- Hypervisor type (xen or ovm)

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example launches three instances of the ami-b232d0db AMI.

```
PROMPT> ec2-run-instances ami-b232d0db -n 3 --availability-zone us-east-la

RESERVATION r-385c5950 012301230123 default
INSTANCE i-5bca5a30 ami-b232d0db pending 0 ml.small 2010-04-07T12:25:47+0000
us-east-la aki-94c527fd ari-96c527ff monitoring-disabled ebs paravirtual
xen
INSTANCE i-59ca5a32 ami-b232d0db pending 1 ml.small 2010-04-07T12:25:47+0000
us-east-la aki-94c527fd ari-96c527ff monitoring-disabled ebs paravirtual
xen
INSTANCE i-5fca5a34 ami-b232d0db pending 2 ml.small 2010-04-07T12:25:47+0000
us-east-la aki-94c527fd ari-96c527ff monitoring-disabled ebs paravirtual
xen
```

Example Request

This example launches an Amazon EBS-based Fedora image (ami-84db39ed) and provides a block device mapping that mounts a public snapshot containing the 2000 US Census data.

Amazon Elastic Compute Cloud CLI Reference Related Operations

PROMPT> ec2-run-instances ami-84db39ed -n 1 --b "/dev/sdb=snap-92d333fb::false"

RESERVATION r-5488ce3c 054794666394 default

INSTANCE i-770af21c ami-84db39ed pending 0 m1.small 2010-0225T00:08:00+0000 us-east-1c aki-94c527fd ari-96c527ff monitoringdisabled ebs paravirtual xen

Related Operations

- ec2-describe-instances (p. 222)
- ec2-stop-instances (p. 469)
- ec2-start-instances (p. 466)
- ec2-terminate-instances (p. 472)
- ec2-authorize (p. 37)
- ec2-revoke (p. 452)
- ec2-describe-group (p. 203)
- ec2-create-group (p. 70)
- ec2-create-keypair (p. 79)

ec2-start-instances

Description

Starts an instance that uses an Amazon EBS volume as its root device.

Instances that use Amazon EBS volumes as their root devices can be quickly stopped and started. When an instance is stopped, the compute resources are released and you are not billed for hourly instance usage. However, your root partition Amazon EBS volume remains, continues to persist your data, and you are charged for Amazon EBS volume usage. You can restart your instance at any time. Each time you transition an instance from stopped to started, we charge a full instance hour, even if transitions happen multiple times within a single hour.



Note

Before stopping an instance, make sure it is in a state from which it can be restarted. Stopping an instance does not preserve data stored in RAM.

Performing this operation on an instance that uses an instance store as its root device returns an error.

You cannot start or stop Spot Instances.

For more information, go to Using Amazon EBS-Backed AMIs and Instances.

The short version of this command is ec2start.

Syntax

ec2-start-instances instance_id [instance_id...]

Options

Name	Description	Required
instance_id	The instance ID. Type: String Default: None Example: i-43a4412a	Yes

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Option	Description	
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com	
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30	
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45	
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.	
-H,headers	Displays column headers in the output.	
show-empty-fields	Shows empty columns as (nil).	
hide-tags	Do not display tags for tagged resources.	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -	

Output

The command returns a table that contains the following information:

- INSTANCE identifier
- Instance ID
- · Previous state
- Current state

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example starts the i-10a64379 instance.

PROMPT> ec2-start-instances i-10a64379 INSTANCE i-10a64379 stopped pending

Related Operations

- ec2-stop-instances (p. 469)
- ec2-run-instances (p. 457)
- ec2-describe-instances (p. 222)
- ec2-terminate-instances (p. 472)

ec2-stop-instances

Description

Stops an instance that uses an Amazon EBS volume as its root device. Each time you transition an instance from stopped to started, we charge a full instance hour, even if transitions happen multiple times within a single hour.



Important

Although Spot Instances can use Amazon EBS-backed AMIs, they don't support Stop/Start. In other words, you can't stop and start Spot Instances launched from an AMI with an Amazon EBS root device.

Instances that use Amazon EBS volumes as their root devices can be quickly stopped and started. When an instance is stopped, the compute resources are released and you are not billed for hourly instance usage. However, your root partition Amazon EBS volume remains, continues to persist your data, and you are charged for Amazon EBS volume usage. You can restart your instance at any time.



Note

Before stopping an instance, make sure it is in a state from which it can be restarted. Stopping an instance does not preserve data stored in RAM.

Performing this operation on an instance that uses an instance store as its root device returns an error.

You can stop, start, and terminate EBS-backed instances. You can only terminate S3-backed instances. What happens to an instance differs if you stop it or terminate it. For example, when you stop an instance, the root device and any other devices attached to the instance persist. When you terminate an instance, the root device and any other devices attached during the instance launch are automatically deleted. For more information about the differences between stopping and terminating instances, go to the "Stop/Start" and "Instance Termination" in Basics of Amazon EBS-Backed AMIS and Instances in the Amazon EC2 User Guide.

The short version of this command is ec2stop.

Syntax

ec2-stop-instances instance_id [instance_id...] [--force]

Name	Description	Required
instance_id	The ID of the instance you want to stop. Type: String Default: None Example: i-43a4412a	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-f,force	Forces the instance to stop. The instance will not have an opportunity to flush file system caches or file system metadata. If you use this option, you must perform file system check and repair procedures. This option is not recommended for Windows instances. Type: Boolean Default: None Example: None	No

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or
	https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com
-K,private-key	The private key to use when constructing requests to Amazon EC2.
EC2-PRIVATE-KEY	Default: The value of the EC2_PRIVATE_KEY environment variable.
	Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable.
	Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout	Specifies a connection timeout (in seconds).
TIMEOUT	Example:connection-timeout 30
request-timeout	Specifies a request timeout (in seconds).
TIMEOUT	Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.

Option	Description	
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.	
-?,help, -h	Displays Help.	
_	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another.	
	<pre>Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -</pre>	

Output

The command returns a table that contains the following information:

- INSTANCE identifier
- Instance ID
- · Previous state
- · Current state

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example stops the i-10a64379 instance.

PROMPT> ec2-stop-instances i-10a64379 INSTANCE i-10a64379 running stopping

Related Operations

- ec2-start-instances (p. 466)
- ec2-run-instances (p. 457)
- ec2-describe-instances (p. 222)
- ec2-terminate-instances (p. 472)

ec2-terminate-instances

Description

Shuts down one or more instances. This operation is idempotent; if you terminate an instance more than once, each call will succeed.

Terminated instances will remain visible after termination (approximately one hour).



Note

By default, Amazon EC2 deletes all Amazon EBS volumes that were attached when the instance launched. Amazon EBS volumes attached after instance launch continue running.

You can stop, start, and terminate EBS-backed instances. You can only terminate S3-backed instances. What happens to an instance differs if you stop it or terminate it. For example, when you stop an instance, the root device and any other devices attached to the instance persist. When you terminate an instance, the root device and any other devices attached during the instance launch are automatically deleted. For more information about the differences between stopping and terminating instances, go to the "Stop/Start" and "Instance Termination" in Basics of Amazon EBS-Backed AMIS and Instances in the Amazon EC2 User Guide.

The short version of this command is ec2kill.

Syntax

ec2-terminate-instances instance_id [instance_id ...]

Options

Name	Description	Required
instance_id	IDs of instances to terminate. Type: String Default: None Example: i-43a4412a	Yes

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1

Option	Description
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert <i>EC2-CERT</i>	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-H,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- INSTANCE identifier
- The instance ID of the instance being terminated
- The state of the instance prior to being terminated
- The new state of the instance

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example terminates the i-3ea74257 instance.

PROMPT> ec2-terminate-instances i-3ea74257 INSTANCE i-3ea74257 running shutting-down

Related Operations

- ec2-describe-instances (p. 222)
- ec2-run-instances (p. 457)

ec2-unmonitor-instances

Description

Disables monitoring for a running instance. For more information, go to Monitoring Your Instances and Volumes in the *Amazon Elastic Compute Cloud User Guide*.

The short version of this command is ec2umin.

Syntax

ec2-unmonitor-instances instance_id [instance_id...]

Options

Name	Description	Required
instance_id	Instance ID. Type: String Default: None Example: i-43a4412a	Yes

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option. Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set. Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point. Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set. Example: -U https://ec2.amazonaws.com
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30

Option	Description
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If - is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns a table that contains the following information:

- Instance ID
- · Monitoring state

Amazon EC2 command line tools display errors on stderr.

Examples

Example Request

This example disables monitoring for i-43a4412a and i-23a3397d.

```
PROMPT> ec2-unmonitor-instances i-43a4412a i-23a3397d i-43a4412a monitoring-disabling i-23a3397d monitoring-disabling
```

Related Operations

- ec2-monitor-instances (p. 397)
- ec2-run-instances (p. 457)

ec2-upload-disk-image

Description

This command, which uploads the disk image associated with an import instance or an import volume task ID, is deprecated. Instead, use ec2-import-instance and ec2-import-volume commands to create the import task and upload the image to Amazon EC2. ec2-import-instance and ec2-import-volume commands that are part of Amazon EC2 API command line tools downloaded after 09-15-2011 are enhanced to perform the task previously performed by ec2-upload-disk-image. Amazon EC2 supports import of VMDK, RAW, and VHD disk images. For more information, go to Using the Command Line Tools to Import Your Virtual Machine to Amazon EC2 in the Amazon Elastic Compute Cloud User Guide.

If the upload task doesn't complete, use ec2-resume-import to resume the import from where it was interrupted.

The short version of this command is ec2udi.

Syntax

```
ec2-upload-disk-image -t task_id -o owner -w secret_key [-x days] [--user-threads threads] [--part-size partsize] [--dry-run] [--dont-verify-format] disk_image
```

Name	Description	Required
disk_image	The local file name of the disk image that you want to upload. Type: String Default: None Example: WinSvr8-32-disk1.vmdk	Yes
-t,task task_id	The conversion task ID for the upload. Type: String Default: None Example: -t import-i-ffvko9js	Yes
-o,owner-akid access_key_id	Access key ID of the bucket owner. Type: String Default: None Example: AKIAIOSFODNN7EXAMPLE	Yes
-w,owner-sak secret_access_key	Secret access key of the bucket owner. Type: String Default: None Example: wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes

Amazon Elastic Compute Cloud CLI Reference Common Options

Name	Description	Required
-x,expires days	Validity period for the signed Amazon S3 URLS that allow EC2 to access your file. Type: String Default: 30 days Example: -x 10	No
user-threads threads	Maximum number of threads to concurrently upload the file with. Type: String Default: 20 Example:user-threads 15	No
part-size partsize	Size of each individual file part (in MB) that will be uploaded. The file will be split into multiple parts at most as large as the partsize parameter. Type: String Default: 8 Example:part-size 3	No
dry-run	Does not upload the file, only validates that the disk image matches a known type. Type: None Default: None Example:dry-run	No
dont-verify-format	Does not verify the file format. We don't recommend this option because it can result in a failed conversion. Type: None Default: None Example:dont-verify-format	No

Common Options

Option	Description
region REGION	Overrides the Region specified in the EC2_URL environment variable and the URL specified by the -U option.
	Default: The EC2_URL environment variable, or us-east-1 if the environment variable is not set.
	Example:region eu-west-1
-U,url URL	URL is the uniform resource locator of the Amazon EC2 web service entry point.
	Default: The EC2_URL environment variable, or https://ec2.amazonaws.com if the environment variable is not set.
	Example: -U https://ec2.amazonaws.com

Option	Description
-K,private-key EC2-PRIVATE-KEY	The private key to use when constructing requests to Amazon EC2. Default: The value of the EC2_PRIVATE_KEY environment variable. Example: -K pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
-C,cert EC2-CERT	The X.509 certificate to use when constructing requests to Amazon EC2. Default: The value of the EC2_CERT environment variable. Example: -C cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem
connection-timeout TIMEOUT	Specifies a connection timeout (in seconds). Example:connection-timeout 30
request-timeout TIMEOUT	Specifies a request timeout (in seconds). Example:request-timeout 45
-v,verbose	Displays verbose output by showing the SOAP request and response on the command line. This is particularly useful if you are building tools to talk directly to our SOAP API.
-Н,headers	Displays column headers in the output.
show-empty-fields	Shows empty columns as (nil).
hide-tags	Do not display tags for tagged resources.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.
-?,help, -h	Displays Help.
-	If – is specified as an argument to one of the parameters, a list of arguments is read from standard input. This is useful for piping the output of one command into the input of another. Example: ec2-describe-instances grep stopped cut -f 2 ec2-start-instances -

Output

The command returns the following information:

- Disk image size and format
- Converted volume size
- EBS volume size
- Percent of the upload completed

Amazon EC2 command line tools display errors on stderr.

Example

Example Request

This example uploads the corresponding disk image of the Windows Server 2008 (32-bit) VM you want to migrate.

PROMPT>ec2-upload-disk-image ./WinSvr8-32-disk1.vmdk -t import-i-ffvko9js -o AKIAIOSFODNN7EXAMPLE -w wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY

Related Operations

- ec2-delete-disk-image (p. 130)
- ec2-resume-import (p. 448)
- ec2-import-instance (p. 361)
- ec2-import-volume (p. 370)
- ec2-describe-conversion-tasks (p. 189)
- ec2-cancel-conversion-task (p. 50)

AMI Tools Reference

Topics

- Common Options for AMI Tools (p. 481)
- ec2-bundle-image (p. 482)
- ec2-bundle-vol (p. 485)
- ec2-delete-bundle (p. 489)
- ec2-download-bundle (p. 491)
- ec2-migrate-bundle (p. 493)
- ec2-migrate-manifest (p. 496)
- ec2-unbundle (p. 498)
- ec2-upload-bundle (p. 500)

Common Options for AMI Tools

Most AMI tools described in this section accept the set of optional parameters described in the following table.



Note

The AMI Tools are only designed for use with the AMIs backed by Amazon S3.

Option	Description
help, -h	Display the help message.
version	Displays the version and copyright notice.
manual	Displays the manual entry.
batch	Runs in batch mode, suppressing user interaction and confirmation.
debug	Prints internal debugging information. This is useful to assist us when troubleshooting problems.

ec2-bundle-image

Description

Create a bundled AMI from an operating system image created in a loopback file. For more information, go to the Amazon Elastic Compute Cloud User Guide.



Note

Scripts that require a copy of the public key from the launch key pair must obtain the key from the instance's metadata (not the key file in the instance store) for instances bundled with the 2007-08-29 AMI tools and later. AMIs bundled before this release will continue to work normally.

Syntax

```
ec2-bundle-image -k private_key -c cert -u user_id -i image_path -r {i386 | x86_64} [-d destination] [-p ami_prefix] [--ec2cert cert_path] [--kernel kernel-id] [--ramdisk ramdisk_id] [--block-device-mapping]
```

Option	Description	Required
-k,privatekey private_key	The path to the user's PEM-encoded RSA key file. Example: -k pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-c,cert cert	The user's PEM encoded RSA public key certificate file. Example: -c cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-u,user user_id	The user's AWS account ID without dashes. Do not use the Access Key ID. Example: -u 111122223333	Yes
-i,image image_path	The path to the image to bundle. Example: -i /var/spool/my-image/version-2/debian.img	Yes
-r,arch architecture	Image architecture. If you don't provide this on the command line, you'll be prompted to provide it when the bundling starts. Valid Values: i386 x86_64 Example: -r x86_64	Yes
-d,destination destination	The directory in which to create the bundle. Default: /tmp Example: -d /var/run/my-bundle	No

Option	Description	Required
-p,prefix ami_prefix	The filename prefix for bundled AMI files. Default: The name of the image file. For example, if the image path is /var/spool/my-image/version-2/debian.img, then the default prefix is debian.img. Example: -p my-image-is-special	No
ec2cert <i>cert_path</i>	The path to the Amazon EC2 X.509 public key certificate. Default: /etc/ec2/amitools/cert-ec2.pem (varies, depending on tools) Example:ec2cert /etc/ec2/amiutil/cert-ec2.pem	No
kernel <i>kernel_id</i>	The ID of the kernel to select. Default: 2.6.16-xenU Example:kernel aki-ba3adfd3	No
ramdisk <i>ramdisk_id</i>	The ID of the RAM disk to select. Some kernels require additional drivers at launch. Check the kernel requirements for information on whether you need to specify a RAM disk. To find kernel requirements, go to the Resource Center and search for the kernel ID. Example:ramdisk ari-badbad00	No
block-device-mapping mappings	Default block-device-mapping scheme with which to launch the AMI. This defines how block devices are exposed to an instance of this AMI if the instance type supports the specified device. The scheme is a comma-separated list of key=value pairs, where each key is a virtual name and each value is the desired device name. Virtual names include: • ami The root file system device, as seen by the instance • root The root file system device, as seen by the kernel • swap The swap device, as seen by the instance • ephemeralN The Nth ephemeral store Example:block-device-mapping ami=sdal,root=/dev/sdal,ephemeral0=sda2,swap=sda3 Example:block-device-mapping	No

Output

Status messages describing the stages and status of the bundling process.

Example

This example creates a bundled AMI from an operating system image that was created in a loopback file.

```
$ ec2-bundle-image -k pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem -c cert-HKZYK
TAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem -u 111122223333 -i image.img -d bundled/ -p
fred -r x86_64
Please specify a value for arch [i386]:
Bundling image file...
Splitting bundled/fred.gz.crypt...
Created fred.part.00
Created fred.part.01
Created fred.part.02
Created fred.part.03
Created fred.part.04
Created fred.part.05
Created fred.part.06
Created fred.part.07
Created fred.part.08
Created fred.part.09
Created fred.part.10
Created fred.part.11
Created fred.part.12
Created fred.part.13
Created fred.part.14
Generating digests for each part...
Digests generated.
Creating bundle manifest...
ec2-bundle-image complete.
```

Related Topics

- ec2-bundle-vol (p. 485)
- ec2-unbundle (p. 498)
- ec2-upload-bundle (p. 500)
- ec2-download-bundle (p. 491)
- ec2-delete-bundle (p. 489)

ec2-bundle-vol

Description

Creates a bundled AMI by compressing, encrypting and signing a snapshot of the local machine's root file system.

To use ec2-bundle-vo1, first you must install the AMI tools on the instance you are bundling, then run ec2-bundle-vo1 on that instance, not on a local system. For information about getting the AMI tools, go to Amazon EC2 AMI Tools.



Note

Scripts that require a copy of the public key from the launch key pair must obtain the key from the instance's metadata (not the key file in the instance store) for instances bundled with the 2007-08-29 AMI tools and later. AMIs bundled before this release will continue to work normally. On a running instance, Amazon EC2 attempts to inherit product codes, kernel settings, RAM disk settings, and block device mappings with which the instance launched.

Syntax

```
ec2-bundle-vol -k private_key -u user_id -c cert -r architecture [-s size] [-d destination] [-e exclude_directory_1,exclude_directory_1,...] [-p ami_prefix] [-v volume] [--ec2cert cert_path] [--fstab fstab_path] [--generate-fstab] [--kernel kernel-id] [--ramdisk ramdisk_id] [--block-device-mapping block_device_mapping] [--[no-]inherit] [--productcodes product_code]
```

Option	Description	Required
-k,privatekey private_key	The path to the user's PEM-encoded RSA key file. Example: -k pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-u,user user_id	The user's AWS account ID without dashes. Do not use the Access Key ID. Example: -u 111122223333	Yes
-c,cert cert	The user's PEM encoded RSA public key certificate file. Example: -c cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-r,arch architecture	Image architecture. If you don't provide this on the command line, you'll be prompted to provide it when the bundling starts. Valid Values: i386 x86_64 Example: -r x86_64	Yes

Option	Description	Required
-s,size <i>size</i>	The size, in MB (1024 * 1024 bytes), of the image file to create. The maximum size is 10240 MB. Default: 10240 Example: -s 2048	No
-d,destination destination	The directory in which to create the bundle. Default: /tmp Example: -d /var/run/my-bundle	No
-e,exclude directory_1,directory_2,	A list of absolute directory paths and files to exclude from the bundle operation. This parameter overrides theall option. When exclude is specified, the directories and subdirectories listed with the parameter will not be bundled with the volume. Example: Assuming the mount point of the volume is -v /foo, and you want to exclude directories /foo/bar and /foo/baz, specify -e /bar,/baz.	No
-i,include file_1,file_2,	A list of files to include in the bundle operation. This option overrides the exclusion of files that are by default filtered out because they might contain sensitive information. Use this option to explicitly include a file that might contain sensitive data i.e., '*.sw', '*.swo', '*.swp', '*.pem', '*.priv', '*.gpg', '*.jks', '*/.ssh/authorized_keys', '*/.bash_history'. The files listed with the parameter will be bundled with the volume. Example: Assuming the mount point of the volume is -v /mnt/myvol/ and you want to include file /mnt/myvol/foo/bar.pem, specify -i /foo/bar.pem.	No
-p,prefix ami_prefix	The filename prefix for bundled AMI files. Default: image Example: -p my-image-is-special	No
-v,volume <i>volume</i>	The absolute path to the mounted volume from which to create the bundle. Default: The root directory (/) Example: -v /mnt/my-customized-ami	No
-a,all	Bundle all directories, including those on remotely mounted filesystems. Example: -a	No
ec2cert cert_path	The path to the Amazon EC2 X.509 public key certificate. Default: /etc/ec2/amitools/cert-ec2.pem (varies, depending on tools) Example:ec2cert /etc/ec2/amiutil/cert-ec2.pem	No

Option	Description	Required
fstab fstab_path	The path to the fstab to bundle into the image. If this is not specified, Amazon EC2 bundles /etc/fstab. Example:fstab /etc/fstab	No
generate-fstab	Causes Amazon EC2 to bundle the volume using an Amazon EC2-provided fstab. Example:generate-fstab	No
kernel kernel_id	The ID of the kernel to select. Example:kernel aki-ba3adfd3	No
ramdisk ramdisk_id	The ID of the RAM disk to select. Some kernels require additional drivers at launch. Check the kernel requirements for information on whether you need to specify a RAM disk. To find the kernel requirements, go to the Resource Center and search for the kernel ID. Example:ramdisk ari-badbad00	No
block-device-mapping mappings	Default block-device-mapping scheme with which to launch the AMI. This defines how block devices are exposed to an instance of this AMI if the instance type supports the specified device. The scheme is a comma-separated list of key=value pairs, where each key is a virtual name and each value is the desired device name. Virtual names include: • ami The root file system device, as seen by the instance • root The root file system device, as seen by the kernel • swap The swap device, as seen by the instance • ephemeralN The Nth ephemeral store Example:block-device-mapping ami=sda1,root=/dev/sda1,ephemeral0=sda2,swap=sda3 Example:block-device-mapping ami=0,root=/dev/dsk/c0d0s0,ephemeral0=1	No
[no-]inherit	Whether the image should inherit the instance's metadata (the default is to inherit). Bundling will fail if you enable inherit but the instance metadata is not accessible. Example:inherit	No
productcodes product_code	Product code to attach to the image at registration time. Example:productcodes 1234abcd	No

Output

Status messages describing the stages and status of the bundling.

Example

This example creates a bundled AMI by compressing, encrypting and signing a snapshot of the local machine's root file system.

```
$ ec2-bundle-vol -d /mnt -k pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem -c cert-
HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem -u 111122223333 -r x86_64
  Copying / into the image file /mnt/image...
  Excluding:
       sys
       dev/shm
       proc
       dev/pts
       proc/sys/fs/binfmt_misc
       dev
       media
       mnt
       proc
       sys
       tmp/image
       mnt/img-mnt
  1+0 records in
  1+0 records out
  mke2fs 1.38 (30-Jun-2005)
  warning: 256 blocks unused.
  Splitting /mnt/image.gz.crypt...
  Created image.part.00
  Created image.part.01
  Created image.part.02
  Created image.part.03
  Created image.part.22
  Created image.part.23
  Generating digests for each part...
  Digests generated.
  Creating bundle manifest...
  Bundle Volume complete.
```

Related Topics

- ec2-bundle-image (p. 482)
- ec2-unbundle (p. 498)
- ec2-upload-bundle (p. 500)
- ec2-download-bundle (p. 491)
- ec2-delete-bundle (p. 489)

ec2-delete-bundle

Description

Deletes the specified bundle from Amazon S3 storage.

Syntax

ec2-delete-bundle -b s3_bucket -a access_key_id -s secret_key [-m manifest_path]
[-p ami_prefix] [--url url] [--retry] [-y] [--clear]

Option	Description	Required
-b,bucket s3_bucket	The name of the Amazon S3 bucket containing the bundled AMI, followed by an optional '/'-delimited path prefix Example: -b myawsbucket/ami-001	Yes
-a,access-key access_key_id	The AWS access key ID. Example: -a AKIAIOSFODNN7EXAMPLE	Yes
-s,secret-key secret_key	The AWS secret access key. Example: -s wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
-m,manifest manifest_path	The path to the unencrypted manifest file. Example: -m /var/spool/my-first-bundle/image.manifest.xml Condition: You must specifyprefix ormanifest.	Conditional
-p,prefix ami_prefix	The bundled AMI filename prefix. Provide the entire prefix. For example, if the prefix is image.img, use -p image.img and not -p image. Example: -p image.img Condition: You must specifyprefix ormanifest.	Conditional
url url	The Amazon S3 service URL. Default: https://s3.amazonaws.com Example:url https://s3.amazonaws.ie	No
retry	Automatically retries on all Amazon S3 errors, up to five times per operation. Example:retry	No
-y,yes	Automatically assumes the answer to all prompts is 'yes'. Example: $-y$	No

Option	Description	Required
clear	Deletes the specified bundle from the Amazon S3 bucket and deletes the bucket, if empty. Example:clear	No

Output

Amazon EC2 displays status messages indicating the stages and status of the delete process.

Example

This example deletes a bundle from Amazon S3.

```
$ ec2-delete-bundle -b myawsbucket -a AKIAIOSFODNN7EXAMPLE -s wJalrXUtn
FEMI/K7MDENG/bPxRfiCYEXAMPLEKEY -p fred
Deleting files:
myawsbucket/fred.manifest.xml
myawsbucket/fred.part.00
myawsbucket/fred.part.01
myawsbucket/fred.part.02
myawsbucket/fred.part.03
myawsbucket/fred.part.04
myawsbucket/fred.part.05
myawsbucket/fred.part.06
Continue? [y/n]
Deleted myawsbucket/fred.manifest.xml
Deleted myawsbucket/fred.part.00
Deleted myawsbucket/fred.part.01
Deleted myawsbucket/fred.part.02
Deleted myawsbucket/fred.part.03
Deleted myawsbucket/fred.part.04
Deleted myawsbucket/fred.part.05
Deleted myawsbucket/fred.part.06
ec2-delete-bundle complete.
```

Related Topics

- ec2-bundle-image (p. 482)
- ec2-bundle-vol (p. 485)
- ec2-unbundle (p. 498)
- ec2-upload-bundle (p. 500)
- ec2-download-bundle (p. 491)

ec2-download-bundle

Description

Download the specified bundles from S3 storage.

Syntax

ec2-download-bundle -b s3_bucket [-m manifest] -a access_key_id -s secret_key -k private_key [-p ami_prefix] [-d directory] [--retry] [--url url]

Option	Description	Required
-b,bucket s3_bucket	The name of the Amazon S3 bucket where the bundle is located, followed by an optional '/'-delimited path prefix. Example: -b myawsbucket/ami-001	Yes
-m,manifest manifest	The manifest filename (without the path). We recommend you specify either the manifest (option -m), or the filename prefix (option -p). Example: -m my-image.manifest.xml	No
-a,access-key access_key_id	Your AWS access key ID. Example: -a AKIAIOSFODNN7EXAMPLE	Yes
-s,secret-key secret_key	Your AWS secret access key. Example: -s wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
-k,privatekey private_key	The private key used to decrypt the manifest. Example: -k pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-p,prefix ami_prefix	The filename prefix for the bundled AMI files. Default: image Example: -p my-image	No
-d,directory directory	The directory where the downloaded bundle is saved. The directory must exist. Default: The current working directory. Example: -d /tmp/my-downloaded-bundle	No
retry	Automatically retries on all Amazon S3 errors, up to five times per operation. Example:retry	No
url url	The S3 service URL. Default: https://s3.amazonaws.com Example:url https://s3.amazonaws.ie	No

Output

Status messages indicating the various stages of the download process are displayed.

Example

This example creates the bundled directory and downloads the bundle from the myawsbucket Amazon S3 bucket.

```
$ mkdir bundled
$ ec2-download-bundle -b myawsbucket -m fred.manifest.xml -a AKIAIOSFODNN7EXAMPLE
-s wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY -k pk-HKZYKTAIG2ECMXY
IBH3HXV4ZBEXAMPLE.pem -d bundled
downloading manifest https://s3.amazonaws.com/myawsbucket/image.manifest.xml
to bundled/image.manifest.xml ...
downloading part https://s3.amazonaws.com/myawsbucket/image.part.00 to
bundled/image.part.00 ...
Downloaded image.part.00 from https://s3.amazonaws.com/myawsbucket.
downloading part https://s3.amazonaws.com/myawsbucket/image.part.01 to
bundled/image.part.01 ...
Downloaded image.part.01 from https://s3.amazonaws.com/myawsbucket.
downloading part https://s3.amazonaws.com/myawsbucket/image.part.02 to
bundled/image.part.02 ...
Downloaded image.part.02 from https://s3.amazonaws.com/myawsbucket.
downloading part https://s3.amazonaws.com/myawsbucket/image.part.03 to
bundled/image.part.03 ...
Downloaded image.part.03 from https://s3.amazonaws.com/myawsbucket.
downloading part https://s3.amazonaws.com/myawsbucket/image.part.04 to
bundled/image.part.04 ...
Downloaded image.part.04 from https://s3.amazonaws.com/myawsbucket.
downloading part https://s3.amazonaws.com/myawsbucket/image.part.05 to
bundled/image.part.05 ...
Downloaded image.part.05 from https://s3.amazonaws.com/myawsbucket.
downloading part https://s3.amazonaws.com/myawsbucket/image.part.06 to
bundled/image.part.06 ...
Downloaded image.part.06 from https://s3.amazonaws.com/myawsbucket.
Download Bundle complete.
```



Note

This example uses the Linux and UNIX mkdir command.

Related Topics

- ec2-bundle-image (p. 482)
- ec2-bundle-vol (p. 485)
- ec2-unbundle (p. 498)
- ec2-upload-bundle (p. 500)
- ec2-delete-bundle (p. 489)

ec2-migrate-bundle

Description

Copy a bundled AMI from one Region to another. For information on Regions, go to the Amazon Elastic Compute Cloud User Guide.



Note

After copying a bundled AMI to a new Region, make sure to register it as a new AMI.

During migration, Amazon EC2 replaces the kernel and RAM disk in the manifest file with a kernel and RAM disk designed for the destination Region. Unless the --no-mapping parameter is given, ec2-migrate-bundle might use the Amazon EC2 DescribeRegions and DescribeImages operations to perform automated mappings.

Syntax

```
ec2-migrate-bundle -k private_key -c cert -a access_key_id -s secret_key --bucket source_s3_bucket --destination-bucket destination_s3_bucket --manifest manifest_path [--location location] [--ec2cert ec2_cert_path] [--kernel kernel-id] [--ramdisk ramdisk_id] [--no-mapping] [--region mapping_region_name]
```

Option	Description	Required
-k,privatekey private_key	The path to the user's PEM-encoded RSA key file. Example: -k pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-c,cert cert	The user's PEM encoded RSA public key certificate file. Example: -c cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-a,access-key access_key_id	The AWS access key ID. Example: -a AKIAIOSFODNN7EXAMPLE	Yes
-s,secret-key secret_key	The AWS secret access key. Example: -s wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
-b,bucket source_s3_bucket	The source Amazon S3 bucket where the AMI is located, followed by an optional '/'-delimited path prefix. Example:bucket myawsbucket	Yes
-d,destination-bucket destination_s3_bucket	The destination Amazon S3 bucket, followed by an optional '/'-delimited path prefix. If the destination bucket does not exist, it is created. Example:destination-bucket myotherawsbucket	Yes

Option	Description	Required
-m,manifest manifest	The location of the Amazon S3 source manifest. Default: None Example:manifest my-ami.manifest.xml	Yes
location location	The location of the destination Amazon S3 bucket. If the bucket exists and the location is specified, the tool exits with an error. if the specified location does not match the actual location. If the bucket exists and no location is specified, the tool uses the bucket's location. If the bucket does not exist and the location is specified, the tool creates the bucket in the specified location. If the bucket does not exist and location is not specified, the tool creates the bucket without a location constraint (in the US). Valid Values: US EU us-west-1 ap-southeast-1 Default: US Example:location EU	No
acl {public-read aws-exec-read}	The access control list policy of the bundled image. Valid Values: public-read aws-exec-read Default: aws-exec-read Example:acl public-read	No
retry	Automatically retries on all Amazon S3 errors, up to five times per operation. Example:retry	No
kernel kernel_id	The ID of the kernel to select. Example:kernel aki-ba3adfd3	No
ramdisk ramdisk_id	The ID of the RAM disk to select. Some kernels require additional drivers at launch. Check the kernel requirements for information on whether you need to specify a RAM disk. To find kernel requirements, go to the Resource Center and search for the kernel ID. Example:ramdisk ari-badbad00	No
no-mapping	Disables automatic mapping of kernels and RAM disks. Example:no-mapping	No
region	Region to look up in the mapping file. If no Region is specified, Amazon EC2 attempts to determine the Region from the location of the Amazon S3 bucket. Example:region eu-west-1	No

Output

Status messages describing the stages and status of the bundling process.

Example

This example copies the AMI specified in the my-ami.manifest.xml manifest from the US to the EU.

```
$ ec2-migrate-bundle --cert cert-THUMBPRINT.pem --privatekey pk-THUMBPRINT.pem
 --access-key AKIAIOSFODNN7EXAMPLE --secret-key wJalrXUtnFEMI/K7MDENG/bPxRfi
CYEXAMPLEKEY --bucket myawsbucket --destination-bucket myotherawsbucket --
manifest my-ami.manifest.xml --location EU
Downloading manifest my-ami.manifest.xml from myawsbucket to /tmp/ami-migration-
my-ami.manifest.xml/my-ami.manifest.xml ...
Copying 'my-ami.part.00'...
Copying 'my-ami.part.01'...
Copying 'my-ami.part.02'...
Copying 'my-ami.part.03'...
Copying 'my-ami.part.04'...
Copying 'my-ami.part.05'...
Copying 'my-ami.part.06'...
Copying 'my-ami.part.07'...
Copying 'my-ami.part.08'...
Copying 'my-ami.part.09'...
Copying 'my-ami.part.10'...
Your new bundle is in S3 at the following location:
myotherawsbucket/my-ami.manifest.xml
```

Related Topics

- ec2-register (p. 405)
- ec2-run-instances (p. 457)

ec2-migrate-manifest

Description

Modify a bundled AMI to work in a new Region. For information on Regions, go to the Amazon Elastic Compute Cloud User Guide.

You must use this command if you are bundling in one Region for use in another or if you copy a bundled AMI out of band (without using ec2-migrate-bundle) and want to use it in a different Region.



Note

This command replaces the kernel and RAM disk in the manifest file with a kernel and RAM disk designed for the destination Region.

Syntax

ec2-migrate-manifest -k private_key -c cert -m manifest_path {(-a access_key_id -s secret_key --region mapping_region_name) | --no-mapping} [--kernel kernel-id] [--ramdisk_ramdisk_id] [--ec2cert_ec2_cert_path]

Option	Description	Required
-k,privatekey private_key	The path to the user's PEM-encoded RSA key file. Example: -k pk-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-c,cert cert	The user's PEM encoded RSA public key certificate file. Example: -c cert-HKZYKTAIG2ECMXYIBH3HXV4ZBEXAMPLE.pem	Yes
-a,access-key access_key_id	The AWS access key ID. Condition: Required if using automatic mapping. Example: -a AKIAIOSFODNN7EXAMPLE	Conditional
-s,secret-key secret_key	The AWS secret access key. Condition: Required if using automatic mapping. Example: -s wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Conditional
manifest manifest_path	The manifest file. Example:manifest my-ami.manifest.xml	Yes
kernel kernel_id	The ID of the kernel to select. Example:kernel aki-ba3adfd3	No

Option	Description	Required
ramdisk <i>ramdisk_id</i>	The ID of the RAM disk to select. Some kernels require additional drivers at launch. Check the kernel requirements for information on whether you need to specify a RAM disk. To find kernel requirements, go to the Resource Center and search for the kernel ID. Example:ramdisk ari-badbad00	No
mapping-file mapping_file	Overrides the file containing kernel and RAM disk Region mappings. Example:mapping-file eu-mappings	No
mapping-url <i>url</i>	Overrides the file containing kernel and RAM disk Region mappings from the specified hostname portion of a URL. Example:mapping-url mysite.com/eu-mappings	No
no-mapping	Disables automatic mapping of kernels and RAM disks. Condition: Required if you're not providing the -a, -s, andregion options (which are used for automatic mapping).	Conditional
region	Region to look up in the mapping file. Condition: Required if using automatic mapping. Example:region eu-west-1	Conditional

Output

Status messages describing the stages and status of the bundling process.

Example

This example copies the AMI specified in the my-ami.manifest.xml manifest from the US to the EU.

```
$ ec2-migrate-manifest --manifest my-ami.manifest.xml --cert cert-HKZYKTAIG2ECMXY
IBH3HXV4ZBZQ55CLO.pem --privatekey pk-HKZYKTAIG2ECMXYIBH3HXV4ZBZQ55CLO.pem --
region eu-west-1
```

Backing up manifest...

Successfully migrated my-ami.manifest.xml It is now suitable for use in eu-west-1.

Related Topics

- ec2-register (p. 405)
- ec2-run-instances (p. 457)

ec2-unbundle

Description

Recreates the AMI from the bundled AMI parts.

Syntax

ec2-unbundle -m manifest -k private_key [-d destination_directory] [-s
source_directory]

Options

Option	Description	Required
-m,manifest manifest	The path to the unencrypted AMI manifest file. Example: -m /var/spool/my-first-bundle/Manifest	Yes
-k,privatekey private_key	The path to your PEM-encoded RSA key file. Example: -k \$HOME/pk-234242example.pem	Yes
-d,destination destination_directory	The directory in which to unbundle the AMI. The destination directory must exist. Default: The current directory. Example: -d /tmp/my-image	No
-s,source source_directory	The directory containing the bundled AMI parts. Default: The current directory. Example: -s /tmp/my-bundled-image	No

Example

This Linux and UNIX example unbundles the AMI specified in the fred.manifest.xml file.

```
$ mkdir unbundled
$ ec2-unbundle -m fred.manifest.xml -s bundled -d unbundled
$ ls -l unbundled
total 1025008
-rw-r--r-- 1 root root 1048578048 Aug 25 23:46 fred.img
```

Output

Status messages indicating the various stages of the unbundling process are displayed.

Related Topics

- ec2-bundle-image (p. 482)
- ec2-bundle-vol (p. 485)
- ec2-upload-bundle (p. 500)
- ec2-download-bundle (p. 491)
- ec2-delete-bundle (p. 489)

ec2-upload-bundle

Description

Upload a bundled AMI to Amazon S3 storage.

Syntax

ec2-upload-bundle -b s3_bucket -m manifest -a access_key_id -s secret_key [--acl acl] [-d directory] [--part part] [--location location] [--url url] [--retry] [--skipmanifest]

Option	Description	Required
-b,bucket s3_bucket	The name of the Amazon S3 bucket in which to store the bundle, followed by an optional '/'-delimited path prefix. If the bucket doesn't exist it will be created (if the bucket name is available). Example: -b myawsbucket/ami-001	Yes
-m,manifest manifest	The path to the manifest file. The manifest file is created during the bundling process and can be found in the directory containing the bundle. Example: -m image.manifest.xml	Yes
-a,access-key access_key_id	Your AWS access key ID. Example: -a AKIAIOSFODNN7EXAMPLE	Yes
-s,secret-key secret_key	Your AWS secret access key. Example: -s wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY	Yes
acl acl	The access control list policy of the bundled image. Valid Values: public-read aws-exec-read Default: aws-exec-read Example:acl public-read	No
-d,directory directory	The directory containing the bundled AMI parts. Default: The directory containing the manifest file (see the -m option). Example: -d /var/run/my-bundle	No
part part	Starts uploading the specified part and all subsequent parts. Example:part 04	No

Option	Description	Required
location location	The location of the destination Amazon S3 bucket. If the bucket exists and you specify a location that doesn't match the bucket's actual location, the tool exits with an error. If the bucket exists and you don't specify a location, the tool uses the bucket's location. If the bucket does not exist and you specify a location, the tool creates the bucket in the specified location. If the bucket does not exist and you don't specify a location, the tool creates the bucket without a location constraint (in the US). Valid Values: US EU us-west-1 ap-southeast-1 Default: US Example:location EU	No
url <i>url</i>	The S3 service URL. Default: https://s3.amazonaws.com Example:url https://s3.amazonaws.ie	No
retry	Automatically retries on all Amazon S3 errors, up to five times per operation. Example:retry	No
skipmanifest	Does not upload the manifest. Example:skipmanifest	No

Output

Amazon EC2 displays status messages that indicate the stages and status of the upload process.

Example

This example uploads the bundle specified by the bundled/fred.manifest.xml manifest.

```
$ ec2-upload-bundle -b myawsbucket -m bundled/fred.manifest.xml -a AKIAIOSFOD
NN7EXAMPLE -s wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY
Creating bucket...
Uploading bundled image parts to the S3 bucket myawsbucket ...
Uploaded fred.part.00
Uploaded fred.part.01
Uploaded fred.part.02
Uploaded fred.part.03
Uploaded fred.part.04
Uploaded fred.part.05
Uploaded fred.part.06
Uploaded fred.part.07
Uploaded fred.part.08
Uploaded fred.part.09
Uploaded fred.part.10
Uploaded fred.part.11
Uploaded fred.part.12
Uploaded fred.part.13
```

Amazon Elastic Compute Cloud CLI Reference Related Topics

Uploaded fred.part.14
Uploading manifest ...
Uploaded manifest.
Bundle upload completed.

Related Topics

- ec2-bundle-image (p. 482)
- ec2-bundle-vol (p. 485)
- ec2-unbundle (p. 498)
- ec2-download-bundle (p. 491)
- ec2-delete-bundle (p. 489)

Document History

The following table describes the important changes since the last release of the Amazon EC2 documentation set.

API version: 2012-05-01.

Latest documentation update: April 19, 2012.

Change	Description	Release Date
Support for AWS Marketplace and a New API Version	Added support for AWS Marketplace AMIs and a new API version: 2012-04-01.	19 April 2012
Amazon EBS Volume Status Check	Starting with API version 2012-03-01, you can check the operational status of your Amazon EBS volume. The volume status check gives you information about the I/O, also known as read/write, capability of your EBS volumes. The volume status check lets you know when an EBS volume's data is potentially inconsistent. Amazon Web Services (AWS) gives you options to handle the potentially inconsistent volume. For information on the commands related to this release, see: • ec2-describe-volume-status (p. 316) • ec2-modify-volume-attribute (p. 394) • ec2-describe-volume-attribute (p. 313) • ec2-enable-volume-io (p. 351)	18 April 2012

Change	Description	Release Date
Amazon EBS Volume Status Check	Starting with API version 2012-03-01, you can check the operational status of your Amazon EBS volume. The volume status check gives you information about the I/O, also known as read/write, capability of your EBS volumes. The volume status check lets you know when an EBS volume's data is potentially inconsistent. Amazon Web Services (AWS) gives you options to handle the potentially inconsistent volume. For information on the commands related to this release, see: • ec2-describe-volume-status (p. 316) • ec2-modify-volume-attribute (p. 394) • ec2-describe-volume-attribute (p. 313) • ec2-enable-volume-io (p. 351)	12 March 2012
Instance Status Checks	Starting with API version 2011-12-15, you can use the ec2-describe-instance-status command to retrieve results of automated checks performed by Amazon EC2. These status checks detect problems that may impair an instance's ability to run your applications. You can use ec2-report-instance-status to send us feedback or report an inaccurate instance status.	30 December 2011
Elastic Network Interfaces (ENIs) for Amazon EC2 Instances in Amazon Virtual Private Cloud	Starting with API version 2011-12-01, you can attach an elastic network interface (ENI) to an EC2 instance in a VPC. For more information, see: • ec2-attach-network-interface (p. 28) • ec2-detach-network-interface (p. 337) • ec2-create-network-interface (p. 89) • ec2-delete-network-interface (p. 146) • ec2-describe-network-interfaces (p. 248) • ec2-describe-network-interface-attribute (p. 254) • ec2-modify-network-interface-attribute (p. 387) • ec2-reset-network-interface-attribute (p. 443)	21 December 2011
New Offering Types for Amazon EC2 Reserved Instances	Starting with API version 2011-11-01, you can use the new offering-type parameter of ec2-describe-reserved-instances-offerings to identify the Reserved Instance offerings that address your projected use: Heavy Utilization, Medium Utilization, and Light Utilization. See ec2-describe-reserved-instances-offerings (p. 268).	01 December 2011
Support for Amazon EC2 Instance Status	The ec2-describe-instance-status (p. 231) command allows you to view the status of your instances and any upcoming scheduled events.	14 November 2011

Change	Description	Release Date
Support for Amazon EC2 Spot Instances in Amazon VPC	The ec2-request-spot-instances (p. 430) command is updated with the subnet option, which enables you to specify an Amazon VPC subnet into which to launch your Spot Instances.	11 October 2011
Added common options table to each entry	The common options table now appears in each command description as well as on the existing Common Options for API Tools (p. 5) page.	18 September 2011
Updates to VM import functionality	We've added ec2-resume-import for restarting an incomplete upload at the point the task stopped, and deprecated ec2-upload-disk-image because its functionality is now performed by the enhanced ec2-import-instance and ec2-import-volume. For more information, see the API actions: • ec2-resume-import • ec2-upload-disk-image • ec2-import-instance • ec2-import-volume.	15 September 2011
Support for VHD file format added to the 2011-07-15 API version	We've added VHD as one of the VM file formats supported for import into Amazon EC2. See the API actions ImportInstance and ImportVolume, and the CLI commands ec2-import-instance and ec2-import-volume.	24 August 2011
Spot Instances Availability Zone pricing changes	We've updated several actions that explain API changes for the Spot Instances Availability Zone pricing feature. We've also added new Availability Zone pricing options as part of the information returned by Spot Instance Requests and Spot Price History API calls.	26 May 2011
Updates for the 2011-05-15 API Version	We've updated several existing actions for the 2011-05-15 API release.	26 May 2011
Dedicated Instances	As part of the Dedicated Instances feature release, we've added new options related to the tenancy attribute of instances, and the instance tenancy attribute of VPCs.	27 March 2011
Updates for the 2011-02-28 API version	We've updated several existing actions for the 2011-02-28 API release.	27 March 2011
Updates for the 2011-01-01 API version	We've added new actions and updated several existing actions for the 2011-01-01 API release. The new and updated actions are related to these Amazon VPC objects: Internet gateways, route tables, network ACLs, VPC security groups, and VPC Elastic IP addresses.	11 March 2011
Merged Amazon VPC Documentation	We've merged the Amazon VPC actions into this guide.	11 March 2011

Change	Description	Release Date
VM Import	Added the following new actions, which allow you to import a virtual machine or volume into Amazon EC2:	15 December 2010
	ec2-import-instance (p. 361)	
	ec2-import-volume (p. 370)	
	ec2-upload-disk-image (p. 477)	
	ec2-describe-conversion-tasks (p. 189)	
	ec2-cancel-conversion-task (p. 50)	
Modifying Block Device Mapping	Removed information from ec2-modify-instance-attribute (p. 383) about modifying an instance's block device mapping attribute. You currently can't modify an instance's block device mapping with this action.	20 November 2010
Filters and Tags	Added information about filters to many of the <i>describe</i> actions. Added information about creating, describing, and deleting tags. For more information about the commands for tags, see ec2-create-tags (p. 110), ec2-delete-tags (p. 162), and ec2-describe-tags (p. 304).	19 September 2010
Idempotent Instance Launch	Updated ec2-run-instances to include aclient-token option to ensure idempotency. For more information about the change, see ec2-run-instances (p. 457).	19 September 2010
Import Key Pair	Added ec2-import-keypair. For more information, see ec2-import-keypair (p. 367).	19 September 2010
Placement Groups for Cluster Compute Instances	Added information about placement groups, which you use with cluster compute instances. For more information about the commands for placement groups, see ec2-create-placement-group (p. 92), ec2-describe-placement-groups (p. 257), and ec2-delete-placement-group (p. 148).	12 July 2010
Amazon VPC IP Address Designation	Amazon VPC users can now specify the IP address to assign an instance launched in a VPC. For information about the using theprivate-ip-address parameter with ec2-run-instances, see ec2-run-instances (p. 457).	12 July 2010
Security Group Permissions	Clarified the information about authorizing security group permissions. For more information, see ec2-authorize (p. 37).	28 April 2010
New Region	Amazon EC2 now supports the Asia Pacific (Singapore) Region. The new endpoint for requests to this Region is ec2.ap-southeast-1.amazonaws.com.	28 April 2010

Change	Description	Release Date
Clarification about Spot Instances	Clarified that you can't stop and start Spot Instances that use an Amazon EBS root device. For more information about stopping instances, see ec2-stop-instances (p. 469).	1 February 2010
Spot Instances	To support customers that use Amazon EC2 instances, but have more flexible usage requirements (e.g., when instances run, how long they run, or whether usage completes within a specific timeframe), Amazon EC2 now provides Spot Instances. A Spot Instance is an instance that Amazon EC2 automatically runs for you when its maximum price is greater than the Spot Price. For conceptual information about Spot Instances, go to the Amazon Elastic Compute Cloud User Guide.	14 December 2009