

PROJECT 1

Administrating VPC and EC2 services by launching linux servers under Elastic load balancing rules under defined subnetworks with autoscaling method

Perquisites:

- 1. Create VPC**
- 2. Creation of 2 Public subnets (Different availability zones)**
- 3. Launch 2 AWS Linux instances (Different availability zones)**
- 4. Create Target groups**
- 5. Create Load balancer**
- 6. Create launch configuration**
- 7. Create Autoscaling group.**

1. Creation of VPC

The screenshot shows the AWS search interface with the query 'vpc'. The results are categorized under 'Services' and 'Features'. Under 'Services', 'VPC' is listed as 'Isolated Cloud Resources'. Under 'Features', there are sections for 'VPC Reachability Analyzer', 'Subnet groups', 'VPC links', and 'Peering connections'. To the right, there is a 'Welcome to AWS' sidebar with links to 'Getting started with AWS', 'Training and certification', and 'What's new with AWS?'. Below the sidebar, a section titled 'Top costs for current month' shows a small icon of a bar chart.

The screenshot shows the AWS VPC dashboard. At the top, there are buttons for 'Create VPC' and 'Launch EC2 Instances'. Below this, a note says 'Note: Your instances will launch in the US West region.' The main area is titled 'Resources by Region' and shows a grid of resources across regions: US West, EU West, and Asia Pacific. The resources include VPCs, Subnets, Route Tables, Internet Gateways, Egress-only Internet Gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections, Network ACLs, Security Groups, Customer Gateways, Virtual Private Gateways, Site-to-Site VPN Connections, Running Instances, and Endpoint Services. To the right, there are sections for 'Service Health', 'Settings', 'Additional Information', and 'AWS Network Manager'. The 'AWS Network Manager' section includes a note about using isolated resources within the AWS Cloud and connecting them to a datacenter using IPsec VPN connections.

The screenshot shows the 'Create VPC' wizard. Step 1 is 'Set VPC settings'. It has a heading 'A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.' Below this, there is a 'VPC settings' section with a note: 'Create only the VPC resource or the VPC and other networking resources.' There are two radio buttons: 'VPC only' (selected) and 'VPC and more'. A 'Name tag - optional' field is present with the value 'PROJECT-VPC'. Under 'IPv4 CIDR block', there is a note: 'Create only the VPC resource or the VPC and other networking resources.' There are three radio buttons: 'IPv4 CIDR manual input' (selected), 'IPAM-allocated IPv4 CIDR block', and 'IPv4 CIDR'. The 'IPv4 CIDR' field contains '192.168.0.0/16'. Under 'IPv6 CIDR block', there is a note: 'Create only the VPC resource or the VPC and other networking resources.' There are three radio buttons: 'No IPv6 CIDR block' (selected), 'IPAM-allocated IPv6 CIDR block', and 'Amazon-provided IPv6 CIDR block'. Under 'Tenancy', there is a note: 'Create only the VPC resource or the VPC and other networking resources.' A dropdown menu is set to 'Default'. At the bottom, there is a 'Tags' section with a note: 'A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.' A table shows 'Key' and 'Value - optional' columns. The table has one row with 'Key' as 'Key' and 'Value - optional' as 'Value'.

Resources to create Info
Create only the VPC resource or the VPC and other networking resources
 VPC only VPC and more

Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.
PROJECT-VPC

IPv4 CIDR block Info
 IPv4 CIDR manual input
 IPAM-allocated IPv4 CIDR block
 IPv4 CIDR
192.168.0.0/16

IPv6 CIDR block Info
 No IPv6 CIDR block
 IPAM-allocated IPv6 CIDR block
 Amazon-provided IPv6 CIDR block
 IPv6 CIDR owned by me

Tenancy Info
 Default

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Q_name"/>	<input type="text" value="Q_PROJECT-VPC"/>
Add new tag	
You can add 49 more tags.	

[Cancel](#) [Create VPC](#)

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You successfully created vpc-0250c99c3a6f25214 / PROJECT-VPC

[VPC](#) > [Your VPCs](#) > [vpc-0250c99c3a6f25214 / PROJECT-VPC](#)

vpc-0250c99c3a6f25214 / PROJECT-VPC

Details Info

VPC ID	<input checked="" type="checkbox"/> vpc-0250c99c3a6f25214	State	<input checked="" type="radio"/> Available
Tenancy	Default	DNS hostnames	Disabled
Default VPC	No	Main route table	rtb-0635a5a9a44fc6be
Network Address Usage metrics	Disabled	IPv6 pool	-
		Route 53 Resolver DNS Firewall rule groups	-
		Owner ID	<input checked="" type="checkbox"/> 846780726677

[Actions](#) ▾

- [Create flow log](#)
- Edit VPC settings**
- [Edit CIDRs](#)
- [Manage middlebox routes](#)
- [Manage tags](#)
- [Delete VPC](#)

Resource map Info

VPC Show details Your AWS virtual network	Subnets (0) Subnets within this VPC	Route tables (1) Route network traffic to resources	Network connections (0) Connections to other networks
PROJECT-VPC		rtb-0635a5a9a44fc6be	

Introducing the VPC resource map
Solid lines represent relationships between resources in your VPC. Dotted lines represent network traffic to

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Edit VPC settings Info

Introducing the new edit VPC settings experience
We've added a new option to make it easier to edit VPC settings. You can now manage all VPC settings in one place. Tell us what you think.

VPC details

VPC ID	<input checked="" type="checkbox"/> vpc-0250c99c3a6f25214	Name	<input checked="" type="checkbox"/> PROJECT-VPC
--------	---	------	---

DHCP settings

DHCP option set	Info
dopt-04a479feee89ed518	

DNS settings

<input checked="" type="checkbox"/> Enable DNS resolution	Info
<input type="checkbox"/> Enable DNS hostnames	Info

Network Address Usage metrics settings

<input type="checkbox"/> Enable Network Address Usage metrics	Info
---	----------------------

[Cancel](#) [Save](#)

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Edit VPC settings

We've added a new option to make it easier to edit VPC settings. You can now manage all VPC settings in one place. Tell us what you think.

VPC details

VPC ID: [vpc-0250c99c3a6f25214](#) Name: [PROJECT-VPC](#)

DHCP settings

DHCP option set: [Info](#) dopt-04a479efee89ed318

DNS settings

Enable DNS resolution [Info](#)
 Enable DNS hostnames [Info](#)

Network Address Usage metrics settings

Enable Network Address Usage metrics [Info](#)

Actions: Cancel, Save

You have successfully modified the settings for [vpc-0250c99c3a6f25214 / PROJECT-VPC](#).

Details

VPC ID: vpc-0250c99c3a6f25214	State: Available	DNS hostnames: Enabled	DNS resolution: Enabled
Tenancy: Default	DHCP option set: dopt-04a479efee89ed318	Main route table: rtb-0635a5a9a44fc6be	Main network ACL: acl-0c51keed8e51efdf27
Default VPC: No	IPv4 CIDR: 192.168.0.0/16	IPv6 pool:	IPv6 CIDR (Network border group): -
Network Address Usage metrics: Disabled	Route 53 Resolver DNS Firewall rule groups: -	Owner ID: 84678072677	

Resource map

- [VPC](#) Show details Your AWS virtual network
- [Subnets \(0\)](#) Subnets within this VPC
- [Route tables \(1\)](#) Route network traffic to resources
- [Network connections \(0\)](#) Connections to other networks

Introducing the VPC resource map

Solid lines represent relationships between resources in your VPC. Dotted lines represent network traffic to

Subnets (4) Info

Actions: Create subnet

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Avail
-	subnet-03e3e9828dd2e998	Available	vpc-084b1e4fc9636c42	172.3.1.0/20	-	4091	us-w
-	subnet-0085f91d0d89d5cd3	Available	vpc-084b1e4fc9636c42	172.3.1.16/20	-	4091	us-w
-	subnet-09febada0d42f7e5	Available	vpc-084b1e4fc9636c42	172.31.48.0/20	-	4091	us-w
-	subnet-0463ba1ffa7c876c	Available	vpc-084b1e4fc9636c42	172.51.52.0/20	-	4091	us-w

Select a subnet

2. Creation of 2 Public subnets in different availability zones.

The image consists of three vertically stacked screenshots of the AWS VPC Subnet creation interface. Each screenshot shows the 'Create subnet' wizard with the following steps completed:

- Step 1: VPC**
 - VPC ID: vpc-0250x9c3a6f25214 (PROJECT-VPC)
 - Associated VPC CIDRs: 192.168.0.0/16
- Step 2: Subnet settings**
 - Subnet 1 of 1**
 - Subnet name: PUBLIC-1
 - Availability Zone: US West (Oregon) / us-west-2a
 - IPv4 CIDR block: 192.168.0.0/24
 - Tags - optional: Name: PUBLIC-1
- Step 3: Subnet settings**
 - Subnet 1 of 1**
 - Subnet name: PUBLIC-1
 - Availability Zone: US West (Oregon) / us-west-2a
 - IPv4 CIDR block: 192.168.0.0/24
 - Tags - optional: Name: PUBLIC-1
- Step 4: Subnet 2 of 2**
 - Key: Name: PUBLIC-2, Value: optional
 - Add new tag: You can add 49 more tags.
 - Remove

In the final step, the 'Create subnet' button is visible at the bottom right of each screen.

You have successfully created 2 subnets: subnet-053f0afa1ffa391f2, subnet-066a9598e12979d8c

Subnets (1 / 2) Info

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Available IPv6 addresses
PUBLIC-2	subnet-066a9598e12979d8c	Available	vpc-0250c99c3af25214 PR...	192.168.1.0/24	-	251	us-west-2
053f0afa1ffa391f2	subnet-066a9598e12979d8c	Available	vpc-0250c99c3af25214 PR...	192.168.0.0/24	-	251	us-west-2

subnet-066a9598e12979d8c

- Details**
- Network ACL**
- CIDR reservations**
- Sharing**
- Tags**

Details

Subnet ID subnet-066a9598e12979d8c	Subnet ARN arn:aws:ec2:us-west-2:846780726677:subnet/subnet-066a9598e12979d8c	State Available	IPv4 CIDR 192.168.1.0/24
Available IPv4 addresses 251	IPv6 CIDR -	Availability Zone us-west-2b	Availability Zone ID usw2-az2
Network border group us-west-2	VPC	Route table rtb-0615a5a9a44fc6be	Network ACL acl-0c513ced9e31fd27

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Subnet

Subnet ID subnet-066a9598e12979d8c	Name PUBLIC-2
---------------------------------------	------------------

Auto-assign IP settings Info

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

- Enable auto-assign public IPv4 address
- Enable auto-assign customer-owned IPv4 address

Resource-based name (RBN) settings Info

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

- Enable resource name DNS A record on launch
- Enable resource name DNS AAAA record on launch

Hostname type Info

- Resource name
- IP name

DNS64 settings

Enable DNS64 to allow IPv6-only services in Amazon VPC to communicate with IPv4-only services and networks.

- Enable DNS64

Cancel Save

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Subnet

Subnet ID subnet-066a9598e12979d8c	Name PUBLIC-2
---------------------------------------	------------------

Auto-assign IP settings Info

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

- Enable auto-assign public IPv4 address
- Enable auto-assign customer-owned IPv4 address

Resource-based name (RBN) settings Info

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

- Enable resource name DNS A record on launch
- Enable resource name DNS AAAA record on launch

Hostname type Info

- Resource name
- IP name

DNS64 settings

Enable DNS64 to allow IPv6-only services in Amazon VPC to communicate with IPv4-only services and networks.

- Enable DNS64

Cancel Save

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You have successfully changed subnet settings:

- Enable auto-assign public IPv4 address

Name	Subnet ID	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Aval.
PUBLIC-2	subnet-066a9598e12979d8c	vpc-0250c99c3a6f25214 PR...	192.168.1.0/24	-	251	US-W
PubIP	subnet-053f0afa1ffa391f2	vpc-0250c99c3a6f25214 PR...	192.168.0.0/24	-	251	US-W

Subnets (1/2) info

Actions **Create subnet**

Details

Subnet ID: subnet-053f0afa1ffa391f2 Subnet ID: subnet-066a9598e12979d8c Clear filters

Network ACL CIDR reservations Sharing Tags

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Edit subnet settings

Subnet

Subnet ID: subnet-053f0afa1ffa391f2 Name: PUBLIC-1

Auto-assign IP settings

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

Enable auto-assign public IPv4 address

Enable auto-assign customer-owned IPv4 address

Resource-based name (RBN) settings

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

Enable resource name DNS A record on launch

Enable resource name DNS AAAA record on launch

Hostname type: IP name

DNS64 settings

Enable DNS64 to allow IPv6-only services in Amazon VPC to communicate with IPv4-only services and networks.

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Subnet

Subnet ID: subnet-053f0afa1ffa391f2 Name: PUBLIC-1

Auto-assign IP settings

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

Enable auto-assign public IPv4 address

Enable auto-assign customer-owned IPv4 address

Resource-based name (RBN) settings

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

Enable resource name DNS A record on launch

Enable resource name DNS AAAA record on launch

Hostname type: IP name

DNS64 settings

Enable DNS64 to allow IPv6-only services in Amazon VPC to communicate with IPv4-only services and networks.

Enable DNS64

Cancel Save

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You have successfully changed subnet settings:

- Enable auto-assign public IPv4 address

Subnets (6) Info

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Avail
-	subnet-03ea5e9828dd2e998	Available	vpc-084b1e4fc9636c42	172.31.0.0/20	-	4091	us-w
-	subnet-008591cd8bd5cd3	Available	vpc-084b1e4fc9636c42	172.31.16.0/20	-	4091	us-w
-	subnet-09fbebaf0d42f7e5	Available	vpc-084b1e4fc9636c42	172.31.48.0/20	-	4091	us-w
-	subnet-04c635a1ffa7c876c	Available	vpc-084b1e4fc9636c42	172.31.32.0/20	-	4091	us-w
PUBLIC-2	subnet-066a9598e12979ef0c	Available	vpc-0250e99c3af6f25214 PR...	192.168.1.0/24	-	251	us-w
PUBLIC-1	subnet-053f0afa1ffa391f2	Available	vpc-0250e99c3af6f25214 PR...	192.168.0.0/24	-	251	us-w

Select a subnet

You have successfully changed subnet settings:

- Enable auto-assign public IPv4 address

Subnets (6) Info

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Avail
-	subnet-03ea5e9828dd2e998	Available	vpc-084b1e4fc9636c42	172.31.0.0/20	-	4091	us-w
-	subnet-008591cd8bd5cd3	Available	vpc-084b1e4fc9636c42	172.31.16.0/20	-	4091	us-w
-	subnet-09fbebaf0d42f7e5	Available	vpc-084b1e4fc9636c42	172.31.48.0/20	-	4091	us-w
-	subnet-04c635a1ffa7c876c	Available	vpc-084b1e4fc9636c42	172.31.32.0/20	-	4091	us-w
PUBLIC-2	subnet-066a9598e12979ef0c	Available	vpc-0250e99c3af6f25214 PR...	192.168.1.0/24	-	251	us-w
PUBLIC-1	subnet-053f0afa1ffa391f2	Available	vpc-0250e99c3af6f25214 PR...	192.168.0.0/24	-	251	us-w

Select a subnet

Route tables (2) Info

Name	Route Table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
-	rtb-0635a5a9a44fc6be	-	-	Yes	vpc-0250e99c3af6f25214 PR...	846780726677
-	rtb-0cb9f95855822a545	-	-	Yes	vpc-084b1e4fc9636c42	846780726677

Select a route table

AWS Services Search [Alt+S]

VPC > Route tables > Create route table

Create route table Info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

VPC
The VPC to use for this route table.

Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="PROJECT-ROUTE-TABLE"/> <input type="button" value="Remove"/>

You can add 49 more tags.

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AWS Services Search [Alt+S]

VPC dashboard < X
EC2 Global View
Filter by VPC: Select a VPC

VPC > Route tables > rtb-0bac90ccb9228584 | PROJECT-ROUTE-TABLE was created successfully.

rtb-0bac90ccb9228584 / PROJECT-ROUTE-TABLE

You can now check network connectivity with Reachability Analyzer

Actions ▾

- Set main route table
- Edit subnet associations
- Edit edge associations
- Edit route propagation
- Edit routes
- Manage tags
- Delete
- Troubleshoot
- Trace network reachability

Details Info

Route table ID	rtb-0bac90ccb9228584	Mains	No	Explicit subnet associations	Edge associations
VPC	vpc-0250c09c3a6f25214 PROJECT-VPC	Owner ID	846780726677	-	-

Routes (1)

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No

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AWS Services Search [Alt+S]

VPC > Route tables > rtb-0bac90ccb9228584 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/2)

Available subnets (2/2)		Selected subnets	
<input type="button" value="Filter subnet associations"/>		<input type="button" value="Save associations"/>	
<input checked="" type="checkbox"/>	Name	<input type="checkbox"/>	Subnet ID
<input checked="" type="checkbox"/>	PUBLIC-2	<input type="checkbox"/>	subnet-066a9598e12979d8c
<input checked="" type="checkbox"/>	PUBLIC-1	<input type="checkbox"/>	192.168.1.0/24

Selected subnets

<input type="checkbox"/>	subnet-066a9598e12979d8c / PUBLIC-2 <input type="button" value="X"/>
<input type="checkbox"/>	subnet-053f0afa1ffa391f2 / PUBLIC-1 <input type="button" value="X"/>

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AWS Services Search [Alt+S]

VPC dashboard EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups Network Analysis Reachability Analyzer Network Access Analyzer DNS firewall Rule groups Peering connections Feedback Language

Route tables (3) Info Filter route tables

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
rtb-0655a9a44fc6be	-	-	-	Yes	vpc-0250c99c3a6f25214 PR...	846780726677
rtb-0cb8f95855822a545	-	-	-	Yes	vpc-084b1e4fc9636c42	846780726677
PROJECT-ROUTE-T...	rtb-0cbac90ccb9228584	2 subnets	-	No	vpc-0250c99c3a6f25214 PR...	846780726677

Select a route table

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AWS Services Search [Alt+S]

VPC dashboard EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups Network Analysis Reachability Analyzer Network Access Analyzer DNS firewall Rule groups Peering connections Feedback Language

Route tables (3) Info Filter route tables

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
rtb-0655a9a44fc6be	-	-	-	Yes	vpc-0250c99c3a6f25214 PR...	846780726677
rtb-0cb8f95855822a545	-	-	-	Yes	vpc-084b1e4fc9636c42	846780726677
PROJECT-ROUTE-T...	rtb-0cbac90ccb9228584	2 subnets	-	No	vpc-0250c99c3a6f25214 PR...	846780726677

Select a route table

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AWS Services Search [Alt+S]

VPC dashboard EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups Network Analysis Reachability Analyzer Network Access Analyzer DNS firewall Rule groups Peering connections Feedback Language

Internet gateways (1/1) Info Filter internet gateways

Name	Internet gateway ID	State	VPC ID	Owner
igw-0c95cf4dfd049f97a	Attached	vpc-084b1e4fc9636c42	846780726677	

igw-0c95cf4dfd049f97a

Details Tags

Details

Internet gateway ID igw-0c95cf4dfd049f97a	State Attached	VPC ID vpc-084b1e4fc9636c42	Owner 846780726677
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Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag
Creates a tag with a key of 'Name' and a value that you specify.

Tags - optional
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Q Name"/>	<input type="text" value="Q PROJECT-IGW"/>
Remove	
Add new tag	

You can add 49 more tags.

[Cancel](#) [Create internet gateway](#)

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The following internet gateway was created: igw-0188842730684a2b1 - PROJECT-IGW. You can now attach to a VPC to enable the VPC to communicate with the internet.

[Attach to a VPC](#)

igw-0188842730684a2b1 / PROJECT-IGW

Details Info

Internet gateway ID	State	VPC ID	Owner
<input type="text" value="igw-0188842730684a2b1"/>	<input type="text" value="Detached"/>	<input type="text" value=""/>	<input type="text" value="846780726677"/>

Tags

Key	Value
<input type="text" value="Name"/>	<input type="text" value="PROJECT-IGW"/>

[Manage tags](#)

[Actions](#)

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Attach to VPC (igw-0188842730684a2b1) Info

VPC
Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs
Attach the Internet gateway to this VPC.

[AWS Command Line Interface command](#)

[Cancel](#) [Attach internet gateway](#)

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AWS VPC dashboard - EC2 Global View - Filtered by VPC: Select a VPC

Route tables (1/5) Info

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Owner ID
rtb-0655a5a9a4fc6b6be	-	-	-	Yes	vpc-0250c99c5af0f25214 PR...	846780726677
rtb-0cb8f9585522a545	-	-	-	Yes	vpc-084b1efcc9636c42	846780726677
PROJECT-ROUTE-T...	rtb-0bac90ccb9228584	2 subnets	-	No	vpc-0250c99c5af0f25214 PR...	846780726677

rtb-0bac90ccb9228584 / PROJECT-ROUTE-TABLE

- Details
- Routes**
- Subnet associations
- Edge associations
- Route propagation
- Tags

Routes (1)

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No

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AWS VPC > Route tables > rtb-0bac90ccb9228584 > Edit routes

Edit routes

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No

Add route

Cancel Preview Save changes

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AWS VPC > Route tables > rtb-0bac90ccb9228584 > Edit routes

Edit routes

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No
0.0.0.0/0	igw-0188842730684a2b1	-	No

Add route

Cancel Preview Save changes

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3. Launching 2 Linux instances in different availability zones.

The screenshot shows the AWS Management Console interface. On the left, the navigation pane is open with several collapsed sections like 'Virtual private cloud' and expanded sections like 'Security' and 'Network Analysis'. The main content area has a search bar at the top with the query 'EC2'. Below it, the 'Services' section lists 'EC2' as the top feature, followed by 'Amazon Inspector' and 'AWS Firewall Manager'. The 'Features' section lists 'Dashboard', 'Limits', 'AMIs', and 'Elastic IPs'. To the right, a large table displays a list of VPCs. The columns are 'Name', 'VPC', 'Owner ID', and 'Actions'. There are 12 results listed, each showing a unique VPC ID and owner ID.

Name	VPC	Owner ID
S	vpc-0250c99c3a6f25214 Pr...	846780726677
S	vpc-084b1e4fc9636c42	846780726677
S	vpc-0250c99c3a6f25214 Pr...	846780726677

The screenshot shows the AWS EC2 Dashboard. On the left, a sidebar lists navigation items like Services, Search, EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Networks & Security, Security Groups, and Elastic IPs. The main content area has tabs for Resources, EC2 Global view, and a central grid of EC2 metrics. A prominent callout box provides instructions for launching Microsoft SQL Server Always On availability groups. Below this, there's a Launch instance section with a dropdown menu, a Launch instance button, and a Migrate a server option. The Scheduled events section shows 'US West (Oregon)' with 'No scheduled events'. The Migrate a server section is also visible. To the right, the Service health section shows 'US West (Oregon)' status as 'operating normally' with a green checkmark. The Zones section lists 'us-west-2a', 'us-west-2b', 'us-west-2c', and 'us-west-2d' with their respective Zone ID values. The Account attributes section lists supported platforms (VPC, AWS VPC), settings (EBs encryption, Zones, EC2 Serial Console, Default credit specification, Console experiments), and an Explore AWS section with a 40% better price performance offer for T4g instances.

The screenshot shows the AWS EC2 'Launch an instance' wizard. The first step, 'Name and tags', is completed with the name 'LINUX-1'. The second step, 'Application and OS Images (Amazon Machine Image)', is currently selected. It lists several AMI options: Amazon Linux (selected), macOS, Ubuntu, Windows, Red Hat, and a 'Browse more AMIs' link. Below this, the 'Amazon Machine Image (AMI)' details are shown: 'Amazon Linux 2 AMI - Kernel 5.10, SSD Volume Type', 'ami-05029fb91931b347f43 (64-bit (x86)) / ami-03335edc2378ef7c3 (64-bit (Arm))', 'Virtualization: hvm', 'ENI enabled: true', and 'Root device type: ebs'. The third step, 'Summary', is open, showing one instance selected, the chosen AMI, t2.micro instance type, and a 8 GiB volume. A summary box highlights the free tier: 'Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) including 1000 AWS Compute hours per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.' Buttons for 'Cancel' and 'Launch instance' are at the bottom.

Amazon Linux 2 Kernel 5.10 AMI 2.0.20230221.0 x86_64 HVM gp2

Description: ami-0b0202b1931b547543 (64-bit (x86_64) / ami-053155ebe757fa8713 (54-bit (Arm))

Architecture: 64-bit (x86)

AMI ID: ami-0b0202b1931b547543

Verified provider

Instance type: t2.micro

Family: Compute Optimized

Processor: 1 vCPU

Memory: 1 GiB Memory

On-Demand Linux pricing: 0.0116 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand RHEL pricing: 0.0116 USD per Hour

Free tier eligible

Compare instance types

Key pair (login): AWS-KP

Network settings

VPC - required: vpc-0250c95c3a6f25214 (PROJECT-VPC)

Auto-assign public IP: Enabled

Firewall (security groups)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group or **Select existing security group**

Security group name - required: launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _./[!@#\$%^&*?]

Description - required: launch-wizard-1 created 2023-03-06T06:05:22.295Z

Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type: ssh, Protocol: TCP, Port range: 22, Source type: Anywhere, Description: e.g. SSH for admin desktop

Remove

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule

Advanced network configuration

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... [read more](#)

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel **Launch instance**

Auto-assign public IP: Enabled

Firewall (security groups)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group or **Select existing security group**

Security group name - required: launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _./[!@#\$%^&*?]

Description - required: launch-wizard-1 created 2023-03-06T06:05:22.295Z

Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0/0)

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Remove

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Add security group rule

Advanced network configuration

Summary

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Cancel **Launch instance**

Configure storage

1x 8 GiB gp2 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems

Advanced details

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... [read more](#)

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel **Launch instance**

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: LINUX-2 Add additional tags

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10 SSD Volume Type ami-0b029b1931b547545 (64-bit) / ami-0b029b1931b547545 (64-bit (Arm)) Free tier eligible

Description

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... read more

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) Instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel Launch Instance

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Instance type

Instance type: t2.micro Free tier eligible

Compare instance types

Key pair (login)

Key pair name - required: AWS-KP Create new key pair

Network settings

VPC - required: vpc-0250d99c3a6f25214 (PROJECT-VPC) PUBLIC-2

Subnet info: subnet-066a9598e12979d8c PUBLIC-2

Auto-assign public IP: Enabled

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... read more

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) Instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel Launch Instance

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Firewall (security groups)

A security group is a set of Firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required: launch-wizard-2

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-/()&@#~&_!\$^*

Description - required: launch-wizard-2 created 2023-03-06T06:06:33.2922

Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0)

Type: ssh Protocol: TCP Port range: 22

Source type: Anywhere Description: optional: e.g. SSH for admin desktop

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule Advanced network configuration

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... read more

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) Instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel Launch Instance

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AWS Services | Search [Alt+S] | Oregon | Help

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type: ssh | Protocol: TCP | Port range: 22 | Description: e.g. SSH for admin desktop

Source type: Anywhere | Source: Add CIDR, prefix list or security group | Description: optional

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule | Advanced network configuration

Configure storage | Advanced

1x 8 GB gp2 Root volume (Not encrypted)

Free tier eligible customers can get up to 50 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume | 0 x File systems | Edit

Advanced details

Summary

Number of instances: 1

Software image (AMI): Amazon Linux 2 Kernel 5.10 AMI... | Read more

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GB

Free tier: In your first year includes 750 hours of t2.micro (or t1.micro in the Regions in which t2.micro is unavailable). Instance usage on free tier AMIs per month: 50 GB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel | Launch Instance

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New EC2 Experience Tell us what you think

Instances (2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
LINUX-1	i-0f2533e2fae3f9455	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2a	ec2-55-91-190-74.us-w...	35.91.190.74
LINUX-2	i-0f0763b56cd5bd1af	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2b	ec2-54-220-234-208.us...	34.220.234.208

Select an instance

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AWS Services | Search [Alt+S] | Oregon | Help

New EC2 Experience Tell us what you think

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
LINUX-1	i-0f2533e2fae3f9455	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2a	ec2-55-91-190-74.us-w...	35.91.190.74
LINUX-2	i-0f0763b56cd5bd1af	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2b	ec2-54-220-234-208.us...	34.220.234.208

Instance: i-0f2533e2fae3f9455 (LINUX-1)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID: i-0f2533e2fae3f9455 (LINUX-1)

IPV6 address: -

Hostname type: IP name: ip-192-168-0-204.us-west-2.compute.internal

Answer private resource DNS name: IPv4 (A)

Auto-assigned IP address: -

Public IPv4 address: 35.91.190.74 | open address

Instance state: Running

Private IP DNS name (IPv4 only): ip-192-168-0-204.us-west-2.compute.internal

Instance type: t2.micro

VPC ID: -

Private IPv4 addresses: 192.168.0.204

Public IPv4 DNS: ec2-55-91-190-74.us-west-2.compute.amazonaws.com | open address

Elastic IP addresses: -

AWS Compute Optimizer finding: -

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AWS Services Search [Alt+S] Oregon MJ

EC2 Instances i-0f2533e2fae3f9455 Connect to instance

Connect to instance info

Connect to your instance i-0f2533e2fae3f9455 (LINUX-1) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID i-0f2533e2fae3f9455 (LINUX-1)

Public IP address 35.91.190.74

User name ec2-user

Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel Connect

https://us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-2&connType=standard&insta...

AWS Services Search [Alt+S] Oregon MJ

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits

Instances Instances Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs

Feedback Language

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

C Connect Instance state Actions Launch Instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv6 ...	Elasti...
LINUX-1	i-0f2533e2fae3f9455	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2a	ec2-35-91-190-74.us-w...	35.91.190.74	-
LINUX-2	i-0f0763b56cd5bd1af	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2b	ec2-34-220-234-208.us...	34.220.234.208	-

Instance: i-0f0763b56cd5bd1af (LINUX-2)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0f0763b56cd5bd1af (LINUX-2)	34.220.234.208 open address	192.168.1.222
IPv6 address	Instance state	Public IPv6 DNS
-	Running	ec2-34-220-234-208.us-west-2.compute.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-192-168-1-222.us-west-2.compute.internal	ip-192-168-1-222.us-west-2.compute.internal	
Answer private resource DNS name	Instance type	Elastic IP addresses
IPv4 (A)	t2.micro	-
Auto-assigned IP address	VPC ID	AWS Compute Optimizer finding

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https://us-west-2.console.aws.amazon.com/ec2/instances?region=us-west-2

AWS Services Search [Alt+S] Oregon MJ

EC2 Instances i-0f0763b56cd5bd1af Connect to instance

Connect to instance info

Connect to your instance i-0f0763b56cd5bd1af (LINUX-2) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID i-0f0763b56cd5bd1af (LINUX-2)

Public IP address 34.220.234.208

User name ec2-user

Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel Connect

https://us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-2&connType=standard&insta...

```
i-0f2533e2faef9455 (LINUX-1)
PublicIP: 35.91.190.74 PrivateIP: 192.168.0.204

[Alt+S] Oregon MJ

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-192-168-0-204 ~]$
```

i-0f2533e2faef9455 (LINUX-1)
PublicIP: 35.91.190.74 PrivateIP: 192.168.0.204

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```
i-0f0763b56cd5bd1af (LINUX-2)
PublicIP: 34.220.254.208 PrivateIP: 192.168.1.222

[Alt+S] Oregon MJ

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-192-168-1-222 ~]$
```

i-0f0763b56cd5bd1af (LINUX-2)
PublicIP: 34.220.254.208 PrivateIP: 192.168.1.222

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```
i-0f2533e2faef9455 (LINUX-1)
PublicIP: 35.91.190.74 PrivateIP: 192.168.0.204

[Alt+S] Oregon MJ

Installing : httpd-tools-2.4.55-1.amzn2.x86_64 4/9
Installing : generic-c-logs-openssl-18.0.0-0.amzn2.noarch 5/9
Installing : httpd-filesystem-2.4.55-1.amzn2.noarch 6/9
Installing : httpd-filesystem-2.4.55-1.amzn2.noarch 7/9
Installing : httpd-filesystem-2.4.55-1.amzn2.noarch 8/9
Installing : httpd-filesystem-2.4.55-1.amzn2.noarch 9/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 1/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 2/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 3/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 4/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 5/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 6/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 7/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 8/9
Verifying : httpd-filesystem-2.4.55-1.amzn2.noarch 9/9
Installed:
httpd.x86_64 0:2.4.55-1.amzn2

Dependency Installed:
apr.x86_64 0:1.7.2-1.amzn2      apr-util.x86_64 0:1.6.3-1.amzn2.0.1      apr-util-bdb.x86_64 0:1.6.3-1.amzn2.0.1      generic-logos-openssl.noarch 0:18.0.0-4.amzn2      httpd-filesystem.noarch 0:2.4.55-1.amzn2
httpd-tools.x86_64 0:2.4.55-1.amzn2      mailcap.noarch 0:2.1.41-2.amzn2      mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-192-168-0-204 ec2-user]# service httpd start
Redirected to /bin/systemctl start httpd.service
[root@ip-192-168-0-204 ec2-user]# service httpd status
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Mon 2023-03-06 06:15:27 UTC; 8m ago
     Docs: man/httpd.service(8)
Main PID: 3824 (httpd)
  Status: "Processing requests..."
   CGroup: /system.slice/httpd.service
           └─3824 /usr/sbin/httpd -DFOREGROUND
              ├─3824 /usr/sbin/httpd -DFOREGROUND
              ├─3826 /usr/sbin/httpd -DFOREGROUND
              ├─3827 /usr/sbin/httpd -DFOREGROUND
              ├─3828 /usr/sbin/httpd -DFOREGROUND
              ├─3829 /usr/sbin/httpd -DFOREGROUND

i-0f2533e2faef9455 (LINUX-1)
```

PublicIP: 35.91.190.74 PrivateIP: 192.168.0.204

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EXCEL PROJECT 1 LINUX SERVER 1 TEST PAGE|

4. Creating Target Group.

The screenshot shows the AWS EC2 Target Groups page. The left sidebar contains navigation links for Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Networks & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Auto Scaling (Launch Configurations, Auto Scaling Groups). The main content area is titled "Target groups" and shows a table with columns: Name, ARN, Port, Protocol, Target type, Load balancer, and VPC ID. A message at the top says "No target groups" and "You don't have any target groups in us-west-2". A prominent orange "Create target group" button is located at the bottom right of the table area.

The screenshot shows the "Specify group details" step of the "Create target group" wizard. The left sidebar shows "Step 1: Specify group details" and "Step 2: Register targets". The main content area is titled "Basic configuration" and includes a note: "Your load balancer routes requests to the targets in a target group and performs health checks on the targets." It features a "Basic configuration" section with a note: "Settings in this section cannot be changed after the target group is created." Below this are four sections: "Choose a target type" (radio button selected for "Instances"), "IP addresses", "Lambda function", and "Application Load Balancer". The "Target group name" field is filled with "ProjectTQ". The "Protocol" dropdown is set to "HTTP" and the "Port" dropdown is set to "80".

The screenshot shows the "Advanced settings" step of the "Create target group" wizard. The left sidebar shows "Step 1: Specify group details" and "Step 2: Register targets". The main content area includes fields for "Protocol" (HTTP), "Port" (80), "VPC" (selected VPC: "vpc-0250099cafa25214"), "Protocol version" (radio button selected for "HTTP1"), "Health checks" (Protocol: HTTP, Path: "/"), "Health check path" (Path: "/"), and "Attributes". A note at the top of the "Health checks" section states: "A maximum of 64 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen."

Health check path
Use the default path of "/" to ping the root, or specify a custom path if preferred.
/

Up to 1024 characters allowed.

Attributes

Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.

Tags - optional
Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.

Cancel **Next**

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Step 1
Specify group details

Step 2
Register targets

Register targets

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

Available instances (2/2)

Instance ID	Name	State	Security groups	Zone	Subnet ID
i-0f0763b56cd5bd1af	LINUX-2	running	launch-wizard-2	us-west-2b	subnet-066a9598e12979d8c
i-0f2533e2fae3f9455	LINUX-1	running	launch-wizard-1	us-west-2a	subnet-053f0afa1ffa391f2

2 selected

Ports for the selected instances
Ports for routing traffic to the selected instances.
80
1-65535 (separate multiple ports with commas)

Review targets

Targets (0)

Remove	Health status	Instance ID	Name	Port	State	Security groups	Zone	Subnet ID
--------	---------------	-------------	------	------	-------	-----------------	------	-----------

No instances added yet
Specify instances above, or leave the group empty if you prefer to add targets later.

Remove all pending

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Review targets

Targets (2)

Remove	Health status	Instance ID	Name	Port	State	Security groups	Zone	Subnet ID
X	Pending	i-0f0763b56cd5bd1af	LINUX-2	80	running	launch-wizard-2	us-west-2b	subnet-066a9598e12979d8c
X	Pending	i-0f2533e2fae3f9455	LINUX-1	80	running	launch-wizard-1	us-west-2a	subnet-053f0afa1ffa391f2

2 pending

Cancel Previous **Create target group**

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Successfully created target group: ProjectTG

EC2 > Target groups

Target groups (1) Info

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
ProjectTG	arnawselasticloadbalanc...	80	HTTP	Instance	None associated	vpc-0250c99c3a6f25214

0 target groups selected

Select a target group above.

http://ip-172-31-10-115.172.31.10.115.us-west-2.compute.amazonaws.com:80/home?region=us-west-2#loadBalancers

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5. Creating Load Balancer.

Screenshot of the AWS EC2 Load Balancers page:

The page shows a sidebar with navigation links for Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, Load Balancing (selected), Load Balancers (selected), Target Groups, Auto Scaling, Launch Configurations, and Auto Scaling Groups. The main content area displays a table with columns: Name, DNS name, State, VPC ID, Availability Zones, Type, Date created, and Instance ID. A message states "No load balancers" and "You don't have any load balancers in us-west-2". A prominent orange "Create load balancer" button is located at the bottom right of the table.

Screenshot of the AWS Load Balancer creation wizard:

The wizard compares three types of load balancers:

- Application Load Balancer (ALB):** Suitable for applications with HTTP and HTTPS traffic. It provides advanced routing and visibility features at the application level.
- Network Load Balancer (NLB):** Suitable for ultra-high performance, TLS offloading, and support for UDP and static IP addresses. It operates at the connection level.
- Classic Load Balancer (GWLB):** Suitable for environments where you need to deploy and manage a fleet of third-party virtual appliances. It supports GENEVE and can handle millions of requests per second.

Each section includes a "Create" button and descriptive text. A "Close" button is at the bottom right.

Screenshot of the "Create Application Load Balancer" wizard:

The wizard steps are:

- Create Application Load Balancer** (info)
- How Elastic Load balancing works**
- Basic configuration**

Basic configuration details:

- Load balancer name:** ProjectLB
- Scheme:** Internet-facing (selected)
- IP address type:** IPv4 (selected)
- Network mapping:** The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

At the bottom, there are "Feedback", "Language", and copyright information: "© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences".

Network mapping Info

The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

VPC Info

Select the virtual private cloud (VPC) for your targets. Only VPCs with an internet gateway are enabled for selection. The selected VPC cannot be changed after the load balancer is created. To confirm the VPC for your targets, view your target groups [\[?\]](#)

PROJECT-VPC
vpc-0250c99c5a6f25214
IPv4: 192.168.0.0/16

Mappings Info

Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.

<input checked="" type="checkbox"/> us-west-2a (usw2-az1)
Subnet subnet-053f0afa1ffa391f2 PUBLIC-1
IPv4 settings Assigned by AWS
<input checked="" type="checkbox"/> us-west-2b (usw2-az2)
Subnet subnet-066a9598e12979d8c PUBLIC-2
IPv4 settings Assigned by AWS

Security groups Info

Security group is a set of firewall rules that control the traffic to your load balancer.

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Security groups Info

A security group is a set of firewall rules that control the traffic to your load balancer.

Security groups

Select up to 5 security groups
Create new security group [\[?\]](#)

default sg-00fe60fb2410db837 X launch-wizard-1 sg-00a0cd90b47eb475b X launch-wizard-2 sg-09c510c00492a9670 X

VPC vpc-0250c99c5a6f25214 VPC vpc-0250c99c5a6f25214 VPC vpc-0250c99c5a6f25214

Listeners and routing Info

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

Listener HTTP:80	Remove
Protocol: HTTP Port: 80	Default action: ProjectTG Info Forward to: Target type: Instance, IPv4
1-65535	HTTP
Create target group [?]	
Listener tags - optional Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.	
Add listener tag You can add up to 50 more tags.	
Add listener	

Add-on services - optional

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AWS Global Accelerator Info

Create an accelerator to get static IP addresses and improve the performance and availability of your applications. [Additional charges apply](#) [\[?\]](#)

Tags - optional

Consider adding tags to your load balancer. Tags enable you to categorize your AWS resources so you can more easily manage them. The 'Key' is required, but 'Value' is optional. For example, you can have Key = production-webserver, or Key = webserver, and Value = production

Summary

Review and confirm your configurations. [Estimate cost](#) [\[?\]](#)

Basic configuration Edit ProjectLB • Internet-facing • IPv4	Security groups Edit • default sg-00fe60fb2410db837 • launch-wizard-1 sg-00a0cd90b47eb475b • launch-wizard-2 sg-09c510c00492a9670	Network mapping Edit VPC vpc-0250c99c5a6f25214 PROJECT-VPC • us-west-2a subnet-053f0afa1ffa391f2 PUBLIC-1 • us-west-2b subnet-066a9598e12979d8c PUBLIC-2	Listeners and routing Edit • HTTP:80 defaults to ProjectTG
Add-on services Edit None	Tags Edit None		
Attributes [?] Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer.			

[Cancel](#) [Create load balancer](#)

[Feedback](#) [Language](#)

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Successfully created load balancer: ProjectLB

Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.

EC2 > Load balancers > ProjectLB > Create Application Load Balancer

Create Application Load Balancer

Suggested next steps

- Review, customize, or enable attributes for your load balancer and listeners using the **Description** and **Listeners** tabs within ProjectLB.
- Discover other services that you can integrate with your load balancer. Visit the **Integrated services** tab within ProjectLB.

View load balancer

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New EC2 Experience **Load balancers**

Load balancers (1/1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Name	DNS name	Status	VPC ID	Availability Zones	Type	Date created	Instance ID
ProjectLB	ProjectLB-1064629029.us-west-2.elb.amazonaws.com (A Record)	Active	vpc-0250c99c3a6f25214	2 Availability Zones	application	March 6, 2023, 11:53 (UTC+05:30)	-

Load balancer: ProjectLB

Details **Listeners** **Network mapping** **Security** **Monitoring** **Integrations** **Attributes** **Tags**

Details

Load balancer type: Application	DNS name: ProjectLB-1064629029.us-west-2.elb.amazonaws.com (A Record)	Status: Active	VPC: vpc-0250c99c3a6f25214
IP address type: IPv4	Scheme: Internet-facing	Availability Zones: subnet-053f0efa1ffaa391f2 (us-west-2a (usw2-az1)) subnet-066a9598e12979d8c (us-west-2b (usw2-az2))	Hosted zone: Z1H1FLSHAB5FS

Target groups

Target groups (1/1) info

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
ProjectTG	arn:aws:elasticloadbalan...	80	HTTP	Instance	ProjectLB	vpc-0250c99c3a6f25214

Target group: ProjectTG

Details **Targets** **Monitoring** **Health checks** **Attributes** **Tags**

Details

Target type: Instance	Protocol: Port HTTP: 80	Protocol version: HTTP1	VPC: vpc-0250c99c3a6f25214
IP address type: IPv4	Load balancer: ProjectLB		
Total targets: 2	Healthy: 2	Unhealthy: 0	Unused: 0
	Initial: 0		Draining: 0

Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

6. Creating Launch Configuration & Autoscaling Group.

The screenshot shows the AWS EC2 Launch Configurations page. On the left, there's a sidebar with various services like Launch Templates, Spot Requests, and Auto Scaling. The main area has a heading 'Launch configurations (0)'. It includes a search bar, a toolbar with 'Actions', 'Copy to launch template', and 'Create launch configuration' buttons, and a table header for 'Name', 'AMI ID', 'Instance type', 'Spot price', and 'Creation time'. A message at the top says: 'Recommendation to not use launch configurations. Amazon EC2 Auto Scaling no longer adds support for new EC2 features to launch configurations and will stop supporting new EC2 instance types after December 31, 2022. We recommend that customers using launch configurations migrate to launch templates. For more information, see the documentation.' Below the table, it says 'No launch configurations found in this region.' and has a 'Create launch configuration' button.

This screenshot shows the first step of the 'Create launch configuration' wizard. It has a title 'Create launch configuration' with an 'Info' link. It includes a note: 'Instead of using launch configurations to create your EC2 Auto Scaling groups, we recommend that you use launch templates and make use of the Auto Scaling guidance option. For more information on migrating launch configurations and using launch templates, see the documentation.' Below this is a 'Launch configuration name' field containing 'ProjectLaunchConfig'. There are sections for 'Amazon machine image (AMI)' (set to 'amzn2-ami-kernel-5.10-hvm-2.0.20230221.0-x86_64-gp2'), 'Instance type' (set to 't2.micro (1 vCPUs, 1 GiB, EBS Only)'), and 'Additional configuration - optional' (with options for 'Request Spot Instances').

This screenshot shows the second step of the 'Create launch configuration' wizard, titled 'Advanced details'. It includes sections for 'Purchasing option' (checkboxes for 'Request Spot Instances' and 'Select IAM role'), 'Monitoring' (checkbox for 'Enable EC2 instance detailed monitoring within CloudWatch'), 'EBS-optimized instance' (checkbox for 'Launch as EBS-optimized instance'), and a note: 'Later, if you want to use a different launch configuration, you can create a new one and apply it to any Auto Scaling group. Existing launch configurations cannot be edited.' Below this is a 'Storage (volumes)' section with an 'EBS volumes' table showing one entry: 'Root' volume type 'General purpose SSD' size '8 GiB' device '/dev/xvda' snapshot 'snap-061f62f7d2e76e5d9'. There's also a note: 'Free tier eligible customers can get up to 30 GB of EBS storage. Learn more about free usage tier eligibility and usage restrictions.'

Screenshot of the AWS Management Console showing the 'Assign a security group' step. It lists two security groups: 'launch-wizard-1' and 'launch-wizard-2'. Both are selected. A note at the bottom says: '⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

Screenshot of the AWS Management Console showing the 'Successfully created launch configuration: ProjectLaunchConfig' step. It shows the 'Launch configurations (1/1)' table with one entry: 'ProjectLaunchConfig' (AMI ID: ami-0b029b1951b547545, Instance type: t2.micro). A note at the top says: 'ⓘ Recommendation to not use launch configurations Amazon EC2 Auto Scaling no longer adds support for new EC2 features to launch configurations and will stop supporting new EC2 instances types after December 31, 2022. We recommend that customers using launch configurations migrate to launch templates. For more information, see the documentation [?]'

Screenshot of the AWS Management Console showing the 'Choose launch template or configuration' step. It shows the 'Launch configuration' section with a note: '⚠ Instead of using launch configurations to create your EC2 Auto Scaling groups, we recommend that you use launch templates and make use of the Auto Scaling guidance option. For more information on migrating launch configurations and using launch templates, see the documentation [?]'.

Choose instance launch options

Choose the VPC network environment that your instances are launched into, and customize the instance types and purchase options.

Network

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC

Choose the VPC that defines the virtual network for your Auto Scaling group.

vpc-0250d9c3a6f25214 (PROJECT-VPC) 192.168.0.0/16

Create a VPC

Availability Zones and subnets

Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.

Select Availability Zones and subnets

us-west-2a | subnet-05f0afa1ffa591f2 (PUBLIC-1) 192.168.0.0/24

us-west-2b | subnet-066a9598e12979d8c (PUBLIC-2) 192.168.1.0/24

Create a subnet

Cancel **Skip to review** **Previous** **Next**

Configure advanced options - optional

Choose a load balancer to distribute incoming traffic for your application across instances to make it more reliable and easily scalable. You can also set options that give you more control over health check replacements and monitoring.

Load balancing - optional

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

No load balancer Traffic to your Auto Scaling group will not be framed by a load balancer.

Attach to an existing load balancer Choose from your existing load balancers.

Attach to a new load balancer Create a new load balancer to attach to your Auto Scaling group.

Attach to an existing load balancer

Select the load balancers that you want to attach to your Auto Scaling group.

Choose from your load balancer target groups This option allows you to attach Application, Network, or Gateway Load Balancers.

Choose from Classic Load Balancers

Select target groups

ProjectTG | HTTP Application Load Balancer: ProjectLB

Health checks - optional

Health check type

EC2 Auto Scaling automatically replaces instances that fail health checks. If you enabled load balancing, you can enable ELB health checks in addition to the EC2 health checks that are always enabled.

EC2 ELB

Health check grace period

The amount of time until EC2 Auto Scaling performs the first health check on new instances after they are put into service.

300 seconds

Cancel **Skip to review** **Previous** **Next**

Review

Choose from your load balancer target groups

This option allows you to attach Application, Network, or Gateway Load Balancers.

Select target groups

ProjectTG | HTTP Application Load Balancer: ProjectLB

Health checks - optional

Health check type

EC2 Auto Scaling automatically replaces instances that fail health checks. If you enabled load balancing, you can enable ELB health checks in addition to the EC2 health checks that are always enabled.

EC2 ELB

Health check grace period

The amount of time until EC2 Auto Scaling performs the first health check on new instances after they are put into service.

300 seconds

Additional settings - optional

Monitoring

Enable group metrics collection within CloudWatch

Default instance warmup

The amount of time that CloudWatch metrics for new instances do not contribute to the group's aggregated instance metrics, as their usage data is not reliable yet.

Enable default instance warmup

Cancel **Skip to review** **Previous** **Next**

AWS Services Search [Alt+S] Oregon MJ

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template or configuration

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Configure group size and scaling policies - optional Info

Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.

Group size - optional Info

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

Desired capacity: 7

Minimum capacity: 3

Maximum capacity: 7

Scaling policies - optional

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info

Target tracking scaling policy Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

None

Instance scale-in protection - optional

Instance scale-in protection If protect from scale-in is enabled, newly launched instances will be protected from scale-in by default.

Enable instance scale-in protection

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AWS Services Search [Alt+S] Oregon MJ

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template or configuration

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Group size - optional Info

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

Desired capacity: 7

Minimum capacity: 3

Maximum capacity: 7

Scaling policies - optional

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info

Target tracking scaling policy Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

None

Instance scale-in protection - optional

Instance scale-in protection If protect from scale-in is enabled, newly launched instances will be protected from scale-in by default.

Enable instance scale-in protection

Cancel Skip to review Previous Next

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AWS Services Search [Alt+S] Oregon MJ

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template or configuration

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Add notifications - optional Info

Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.

Add notification

Cancel Skip to review Previous Next

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Screenshot of Step 4: Add tags - optional

The screenshot shows the AWS EC2 Auto Scaling groups wizard at Step 4. A callout box highlights the "Add tags" section, which allows users to add tags to instances and their attached EBS volumes. It includes a note about launching templates and a "Tags (0)" table with an "Add tag" button.

Screenshot of Step 5: Review

The screenshot shows the "Review" step of the wizard. It displays the configuration details from previous steps:

- Step 1: Choose launch template or configuration**
 - Auto Scaling group name: ProjectAutoScaling
 - Launch configuration: ProjectLaunchConfig
- Step 2: Choose instance launch options**
 - Network: VPC vpc-0250c99c3a6f25214
 - Availability Zone: us-west-2a Subnet: subnet-053f0fa1ffa591f2 (192.168.0.0/24)
 - Availability Zone: us-west-2b Subnet: subnet-066a9598e12979d8c (192.168.1.0/24)
- Step 3: Configure advanced options**

Screenshot of Step 6: Configure advanced options

The screenshot shows the "Configure advanced options" step. It includes sections for Load balancing, Health checks, and Additional settings:

- Load balancing**

Name	Type	Target group
ProjectLB	Application/HTTP	ProjectTG
- Health checks**

Health check type	Health check grace period
EC2	300 seconds
- Additional settings**

Monitoring	Default instance warmup
Disabled	Disabled
- Step 4: Configure group size and scaling policies**

AWS Services Search [Alt+S]

Scaling policy
No scaling policy

Instance scale-in protection
Instance scale-in protection
Enable instance protection from scale in

Step 5: Add notifications
Edit
Notifications
No notifications

Step 6: Add tags
Edit
Tags (0)
Key Value Tag new instances
No tags

Cancel Previous Create Auto Scaling group

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AWS Services Search [Alt+S]

Auto Scale your Amazon EC2 Instances Ahead of Demand
Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications.

ProjectAutoScaling created successfully

EC2 > Auto Scaling groups

Auto Scaling groups (1/1) Info
Search your Auto Scaling groups

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
ProjectAutoScaling	ProjectLaunchConfig	7	-	7	3	7	us-west-2a, us-west-2b

Auto Scaling group: ProjectAutoScaling

Details Activity Automatic scaling Instance management Monitoring Instance refresh

Group details

Auto Scaling group name ProjectAutoScaling	Desired capacity 7	Status -	Amazon Resource Name (ARN) arn:aws:autoscaling:us-west-2:846780726677:autoScalingGroup:eda9273f-b3d8-482f-b075-11a65b5c18a6:autoScalingGroupName/ProjectAutoScaling
Date created Mon Mar 06 2023 12:11:11 GMT+0530 (India Standard Time)	Minimum capacity 3	Maximum capacity 7	

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New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits

Instances

- Instances**
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security

- Security Groups
- Elastic IPs

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Instances (9) Info
Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elas
-	i-0165dd0b5b110c4475	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-54-209-24-213.us...	34.209.24.213	-
-	i-01e817beadc15afc3	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-54-202-146-60.us...	54.202.146.60	-
-	i-07cf0657d48ae37c2	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-35-86-113-108.us...	35.86.113.108	-
-	i-096194232ba2a78753d	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-219-151-139.us...	34.219.151.139	-
-	i-0a57148830eabb76e	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-219-128-63.us...	34.219.128.63	-
-	i-064789b5b265996a	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-214-26-160.us...	34.214.26.160	-
-	i-0k42ef5c8581d6ec2	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-185-10-102.us...	54.185.10.102	-
LINUX-1	i-0f2533e2fa3f9455	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-35-91-190-74.us-w...	35.91.190.74	-
LINUX-2	i-0f0763b56cd5bd1af	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-54-220-234-208.us...	34.220.234.208	-

Select an instance