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New VPC Experience  
Tell us what you think

VPC Dashboard

EC2 Global View **New**

Filter by VPC:

🔍 Select a VPC

▼ **VIRTUAL PRIVATE CLOUD**

**Your VPCs**

Subnets

Route Tables **New**

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services **New**

**Your VPCs (1)** [Info](#)



Actions ▾

Create VPC

🔍 Filter VPCs

< 1 >



<input type="checkbox"/>	Name ▾	VPC ID ▾	State ▾	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	-	vpc-a2f19ac9	✔ Available	172.31.0.0/16	-

Select a VPC above



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# Create VPC [Info](#)

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances.

## VPC settings

### Name tag - *optional*

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

### IPv4 CIDR block [Info](#)

### IPv6 CIDR block [Info](#)

- ☒ No IPv6 CIDR block
- ☐ Amazon-provided IPv6 CIDR block
- ☐ IPv6 CIDR owned by me

### Tenancy [Info](#)





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IPv6 CIDR block [Info](#)

- ☒ No 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

🔍 Name



Value - optional

🔍 AK-vpc-01



Remove

Add new tag

You can add 49 more tags.

Cancel

Create VPC

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Endpoint Services **New**

✓ You successfully created vpc-0e69be42c6de1abeb / AK-vpc-01



VPC > Your VPCs > vpc-0e69be42c6de1abeb

## vpc-0e69be42c6de1abeb / AK-vpc-01

Actions ▾

Details [Info](#)

VPC ID

vpc-0e69be42c6de1abeb

State

✓ Available

DNS hostnames

Disabled

DNS resolution

Enabled

Tenancy

Default

DHCP options set

[dopt-2c337f47](#)

Main route table

[rtb-096a270fa8b9e7407](#)

Main network ACL

[acl-09b87bfaa678d04bd](#)

Default VPC

No

IPv4 CIDR

10.0.0.0/16

IPv6 pool

–

IPv6 CIDR

–

Route 53 Resolver DNS Firewall rule groups

–

Owner ID

962163351870

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Endpoint Services **New**

## Internet gateways (1/1) [Info](#)



Actions ▾

Create internet gateway

< 1 >

<input checked="" type="checkbox"/>	Name ▾	Internet gateway ID ▾	State ▾	VPC ID ▾	Owner
<input checked="" type="checkbox"/>	-	igw-a15541c9	✓ Attached	vpc-a2f19ac9	96216335187

igw-a15541c9

Details

Tags

### Details

Internet gateway ID

State

VPC ID

Owner

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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

[Remove](#)[Add new tag](#)

You can add 49 more tags.





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**Internet Gateways**

Egress Only Internet Gateways

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Endpoint Services **New**

✔ The following internet gateway was created: igw-0e984f24fc82934cf . You can now attach to a VPC to enable the VPC to communicate with the internet.

Attach to a VPC



VPC > Internet gateways > igw-0e984f24fc82934cf

## igw-0e984f24fc82934cf / AK-internet-gateway

Actions ▾

### Details [Info](#)

Internet gateway ID

📄 igw-0e984f24fc82934cf

State

⊖ Detached

VPC ID

-

Owner

📄 962163351870

### Tags

Manage tags

🔍 Search tags

< 1 >



Key

Value

Name

AK-internet-gateway

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VPC > Internet gateways > Attach to VPC (igw-0e984f24fc82934cf)

## Attach to VPC (igw-0e984f24fc82934cf) [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.

Q vpc-0e69be42c6de1abeb



► AWS Command Line Interface command

Cancel

Attach internet gateway

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EC2 Global View **New**

Filter by VPC:

🔍 Select a VPC

▼ **VIRTUAL PRIVATE CLOUD**

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Route Tables **New**

**Internet Gateways**

Egress Only Internet Gateways

DHCP Options Sets

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Endpoints

Endpoint Services **New**

✔ Internet gateway igw-0e984f24fc82934cf successfully attached to vpc-0e69be42c6de1abeb



VPC > Internet gateways > igw-0e984f24fc82934cf

## igw-0e984f24fc82934cf / AK-internet-gateway

Actions ▾

### Details [Info](#)

Internet gateway ID

📄 igw-0e984f24fc82934cf

State

✔ Attached

VPC ID

vpc-0e69be42c6de1abeb | [AK-vpc-01](#)

Owner

📄 962163351870

### Tags

Manage tags

🔍 Search tags

< 1 >



Key

Value

Name

AK-internet-gateway

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EC2 Global View **New**

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Route Tables **New**

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services **New**

**Subnets (3)** [Info](#)



Actions ▾

Create subnet

< 1 >



<input type="checkbox"/>	Name ▾	Subnet ID ▾	State ▾	VPC ▾	IPv4 CIDR ▾
<input type="checkbox"/>	-	<a href="#">subnet-5e905823</a>	✓ Available	<a href="#">vpc-a2f19ac9</a>	172.31.16.0/20
<input type="checkbox"/>	-	<a href="#">subnet-0f1b2b43</a>	✓ Available	<a href="#">vpc-a2f19ac9</a>	172.31.32.0/20
<input type="checkbox"/>	-	<a href="#">subnet-dd36a5b6</a>	✓ Available	<a href="#">vpc-a2f19ac9</a>	172.31.0.0/20

Select a subnet



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# Create subnet [Info](#)

## VPC

### VPC ID

Create subnets in this VPC.

vpc-0e69be42c6de1abeb (AK-vpc-01) ▼

### Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

## Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

### Subnet 1 of 1

#### Subnet name

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

my-subnet-01

The name can be up to 256 characters long.

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[English \(US\)](#) ▼

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## Subnet 1 of 1

### Subnet name

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

AK-subnet-01

The name can be up to 256 characters long.

### Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference

### IPv4 CIDR block [Info](#)

10.0.0.0/16

### Tags - optional

Remove

Add new subnet

Cancel

Create subnet



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EC2 Global View **New**

Filter by VPC:

🔍 Select a VPC

▼ **VIRTUAL PRIVATE CLOUD**

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**Subnets**

Route Tables **New**

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Endpoint Services **New**

✔ You have successfully created 1 subnet: subnet-0e8bf9b2a1aee3f8c



**Subnets (1)** [Info](#)



Actions ▾

Create subnet

🔍 Filter subnets

< 1 > ⚙️

Subnet ID: subnet-0e8bf9b2a1aee3f8c ✕

Clear filters

<input type="checkbox"/>	Name ▾	Subnet ID ▾	State ▾	VPC ▾	IPv4 CIDR ▾
<input type="checkbox"/>	AK-subnet-01	subnet-0e8bf9b2a1aee3f8c	✔ Available	vpc-0e69be42c6de1abeb   AK-...	10.0.0.0/16

Select a subnet



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VPC Dashboard

EC2 Global View **New**

Filter by VPC:

Select a VPC

## VIRTUAL PRIVATE CLOUD

Your VPCs

**Subnets**

Route Tables **New**

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Endpoints

Endpoint Services **New**

✓ You have successfully created 1 subnet: subnet-0e8bf9b2a1aee3f8c

## Subnets (1/1) [Info](#)

Filter subnets

Subnet ID: subnet-0e8bf9b2a1aee3f8c ✕

Clear filters

<input checked="" type="checkbox"/>	Name ▾	Subnet ID ▾	State ▾	VPC ▾
<input checked="" type="checkbox"/>	AK-subnet-01	subnet-0e8bf9b2a1aee3f8c	✓ Available	vpc-0e8bf9b2a1aee3f8c

subnet-0e8bf9b2a1aee3f8c / AK-subnet-01

**Details**

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

### Details



Actions ▴

Create subnet

View details

Create flow log

Modify auto-assign IP settings

Edit IPv6 CIDRs

Edit network ACL association

Edit route table association

Edit CIDR reservations

Share subnet

Manage tags

Delete subnet

< 1 > ⚙

CIDR ▾

0.0.0.0/16



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VPC > Subnets > subnet-0e8bf9b2a1aee3f8c > Modify auto-assign IP settings

## Modify auto-assign IP settings [Info](#)

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

### Settings

Subnet ID

subnet-0e8bf9b2a1aee3f8c

Auto-assign IPv4 [Info](#)

☒ Enable auto-assign public IPv4 address

Auto-assign customer-owned IPv4 address [Info](#)

☐ Enable auto-assign customer-owned IPv4 address  
Option disabled because no customer owned pools found.

Cancel

Save

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EC2 Global View **New**

Filter by VPC:

🔍 Select a VPC

▼ **VIRTUAL PRIVATE CLOUD**

Your VPCs

**Subnets**

Route Tables **New**

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

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Endpoints

Endpoint Services **New**

✔ You have successfully modified auto-assign IP settings.

- Public IPv4 address

Subnets (1/1) [Info](#)



Actions ▾

Create subnet

🔍 Filter subnets

< 1 > ⚙️

Subnet ID: subnet-0e8bf9b2a1aee3f8c ✕

Clear filters

<input checked="" type="checkbox"/>	Name ▾	Subnet ID ▾	State ▾	VPC ▾	IPv4 CIDR ▾
<input checked="" type="checkbox"/>	AK-subnet-01	subnet-0e8bf9b2a1aee3f8c	Available	aws-xxxx-xxxx-xxxx-xxxx	10.0.0.0/24

subnet-0e8bf9b2a1aee3f8c / AK-subnet-01

**Details**

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details



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VPC Dashboard

EC2 Global View **New**

Filter by VPC:

🔍 Select a VPC

▼ **VIRTUAL PRIVATE CLOUD**

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**Route Tables** **New**

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Endpoint Services **New**

**Route tables (2)** [Info](#)



Actions ▾

Create route table

🔍 Filter route tables

< 1 >



<input type="checkbox"/>	Name ▾	Route table ID ▾	Explicit subnet associat...	Edge associations	Main ▾	VPC
<input type="checkbox"/>	-	<a href="#">rtb-096a270fa8b9e7407</a>	-	-	Yes	<a href="#">vpc-0e69be42c6de1at</a>
<input type="checkbox"/>	-	<a href="#">rtb-7a7e4d11</a>	-	-	Yes	<a href="#">vpc-a2f19ac9</a>

Select a route table



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## Route table settings

### Name - optional

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

AK-route-table-01

### VPC

The VPC to use for this route table.

vpc-0e69be42c6de1abeb (AK-vpc-01) ▼

## 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

🔍 Name



### Value - optional

🔍 AK-route-table-01



Remove

Add new tag

You can add 49 more tags.

Cancel

Create route table

Feedback

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Filter by VPC:

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**Route Tables** **New**

Internet Gateways

Egress Only Internet Gateways

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Endpoints

Endpoint Services **New**

Route table rtb-0b3af6f0c9e86af96 | AK-route-table-01 was created successfully.

VPC > Route tables > rtb-0b3af6f0c9e86af96

## rtb-0b3af6f0c9e86af96 / AK-route-table-01

Actions ▾

**i** You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

### Details **Info**

Route table ID

rtb-0b3af6f0c9e86af96

VPC

[vpc-0e69be42c6de1abeb](#) | AK-vpc-01

Main

No

Owner ID

962163351870

Explicit subnet associations

–

Edge associations

–

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EC2 Global View **New**

Filter by VPC:

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**Route Tables** **New**

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services **New**

✔ Route table rtb-0b3af6f0c9e86af96 | AK-route-table-01 was created successfully. ✕

VPC > Route tables > rtb-0b3af6f0c9e86af96

## rtb-0b3af6f0c9e86af96 / AK-route-table-01

📘 You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

### Details [Info](#)

Route table ID

📄 rtb-0b3af6f0c9e86af96

VPC

vpc-0e69be42c6de1abeb | AK-vpc-01

Main

📄 No

Owner ID

📄 962163351870

Explicit subnet associations

-

Edge

-

Actions ▴

Set main route table

Edit subnet associations

Edit edge associations

Edit route propagation

Edit routes

Manage tags

Delete

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**Route Tables** **New**

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Endpoint Services **New**

✔ Route table rtb-0b3af6f0c9e86af96 | AK-route-table-01 was created successfully.

VPC > Route tables > rtb-0b3af6f0c9e86af96

rtb-0b3af6f0c9e8

📘 You can now check network

Details Info

Route table ID

📄 rtb-0b3af6f0c9e86af96

VPC

vpc-0e69be42c6de1abeb | AK-vpc-01

### Set main route table

Main route table controls the routing for all subnets that are not explicitly associated with any other route table. Are you sure you want to set this route table as the main route table?

- rtb-0b3af6f0c9e86af96 / AK-route-table-01

To confirm setting, type *set* in the field.

set

Cancel

OK

Actions ▾

Quality Analyzer

Associations

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VPC > Route tables > rtb-0b3af6f0c9e86af96 > Edit routes

## Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	<input type="text" value="local"/>	✓ Active	No
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="igw-0e984f24fc82934cf"/>	-	No
<div>Add route</div>			

Remove

Cancel

Preview

Save changes

Feedback

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EC2 Global View **New**

Filter by VPC:

🔍 Select a VPC

▼ **VIRTUAL PRIVATE CLOUD**

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Subnets

**Route Tables** **New**

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

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Endpoint Services **New**

✔ Updated routes for rtb-0b3af6f0c9e86af96 / AK-route-table-01 successfully



▶ Details

VPC > Route tables > rtb-0b3af6f0c9e86af96

## rtb-0b3af6f0c9e86af96 / AK-route-table-01

Actions ▾

📘 You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer



### Details [Info](#)

Route table ID

📄 rtb-0b3af6f0c9e86af96

VPC

vpc-0e69be42c6de1abeb | AK-vpc-01

Main

📄 Yes

Owner ID

📄 962163351870

Explicit subnet associations

-

Edge associations

-

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AMIs

Instances (1) [Info](#)



Connect

Instance state ▾

Actions ▾

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search: i-0039ddef7dfeabe9a ✕

Clear filters

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	mynewserver	i-0039ddef7dfeabe9a	Running	t2.micro	2/2 checks passed	No alarms +	us-east-2c

Select an instance above



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1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review

[Cancel and Exit](#)

## Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Q Search for an AMI by entering a search term e.g. "Windows"



[Search by Systems Manager parameter](#)

### Quick Start

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only



Amazon Linux  
Free tier eligible

**Amazon Linux 2 AMI (HVM), SSD Volume Type** - ami-00dfe2c7ce89a450b (64-bit x86) / ami-031dea1a744251b51 (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.

Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes





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1. Choose AMI

2. Choose Instance Type

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6. Configure Security Group

7. Review

## Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by:

All instance families ▼

Current generation ▼

[Show/Hide Columns](#)**Currently selected:** t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family ▼	Type ▼	vCPUs ⓘ ▼	Memory (GiB) ▼	Instance Storage (GB) ⓘ ▼	EBS-Optimized Available ⓘ ▼	Network Performance ⓘ ▼	IPv6 Support ⓘ ▼
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

## Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	<input type="text" value="1"/>	<a href="#">Launch into Auto Scaling Group</a>
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	<input type="text" value="vpc-0e69be42c6de1abeb   AK-vpc-01"/>	<a href="#">Create new VPC</a>
Subnet	<input type="text" value="subnet-0e8bf9b2a1aee3f8c   AK-subnet-01   us-east-1"/>	<a href="#">Create new subnet</a>
	65531 IP Addresses available	
Auto-assign Public IP	<input type="text" value="Use subnet setting (Enable)"/>	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	<input type="text" value="Open"/>	
Domain join directory	<input type="text" value="No directory"/>	<a href="#">Create new directory</a>

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)



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- 1. Choose AMI
- 2. Choose Instance Type
- 3. Configure Instance
- 4. Add Storage
- 5. Add Tags
- 6. Configure Security Group
- 7. Review

## Step 7: Review Instance Launch

t2.micro

-

1

### Security Groups

Security group name  
Description

launch-wizard-  
launch-wizard-

Type ⓘ

Pro

SSH

TCP

### Instance Details

### Storage

### Tags

Low to Moderate

Edit security groups

Description ⓘ

Edit instance details

Edit storage

Edit tags

Cancel

Previous

Launch

### Select an existing key pair or create a new key pair



A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Select a key pair

newkey | RSA

☒ I acknowledge that I have access to the corresponding private key file, and that without this file, I won't be able to log into my instance.

Cancel

Launch Instances

Feedback

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## Launch Status



### Your instances are now launching

The following instance launches have been initiated: [i-005e50656eb5b56c5](#) [View launch log](#)



### Get notified of estimated charges

Create [billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

## How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

### ▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

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## Instances (2) [Info](#)



Connect

Instance state ▾

Actions ▾

Launch instances



🔍 Filter instances

< 1 > ⚙️

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	-	i-005e50656eb5b56c5	🟢 Running 🔍	t2.micro	🕒 Initializing	No alarms +	us-east-2a
<input type="checkbox"/>	mynewserver	i-0039ddef7dfeabe9a	🟢 Running 🔍	t2.micro	🟢 2/2 checks passed	No alarms +	us-east-2c

Select an instance above



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