

AWS THREE-TIRE ARCHITECTURE PROJECT



CREATE VPC:

VPC settings

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.

my-vpc-01

IPv4 CIDR block [Info](#)

☒ IPv4 CIDR manual input

☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

25.0.0.0/16

CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)

☒ No IPv6 CIDR block

☐ IPAM-allocated IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

☺ You successfully created vpc-03bf6dab171856c3f / my-vpc-01

×

CREATE SUBNET:1

Create subnet [Info](#)

VPC

VPC ID

Create subnets in this VPC.

vpc-03bf6dab171856c3f (my-vpc-01)



Associated VPC CIDRs

IPv4 CIDRs

25.0.0.0/16

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.

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.

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

IPv4 subnet CIDR block

256 IPs

You have successfully created 1 subnet: subnet-08ae3e646408b5cf1

Subnets (1) [Info](#)

Find resources by attribute or tag

Subnet ID : subnet-08ae3e646408b5cf1

Clear filters

Last updated less than a minute ago

Actions

Create subnet

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPs
<input type="checkbox"/>	public-subnet-1	subnet-08ae3e646408b5cf1	Available	vpc-03bf6dab171856c3f my-v...	25.0.0.0/24	–	251

CREATE SUBNET:2

Create subnet [Info](#)

VPC

VPC ID

Create subnets in this VPC.

Associated VPC CIDRs

IPv4 CIDRs

25.0.0.0/16

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.

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.

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

IPv4 subnet CIDR block

256 IPs

You have successfully created 1 subnet: subnet-0ea8c2bc50b5400b2

Subnets (1) [Info](#)

Find resources by attribute or tag

Subnet ID : subnet-0ea8c2bc50b5400b2

Clear filters

Last updated
less than a minute ago

Actions

Create subnet

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IP
<input type="checkbox"/>	public-subnet-2	subnet-0ea8c2bc50b5400b2	Available	vpc-03bf6dab171856c3f my-v...	25.0.25.0/24	-	251

CREATE SUBNET:3

Create subnet [Info](#)

VPC

VPC ID

Create subnets in this VPC.

Associated VPC CIDRs

IPv4 CIDRs

25.0.0.0/16

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.

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.

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

IPv4 subnet CIDR block

256 IPs

You have successfully created 1 subnet: subnet-014c8f50a585369be

Subnets (1) [Info](#)

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

Subnet ID : subnet-014c8f50a585369be

Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IP
<input type="checkbox"/>	private-subnet-1	subnet-014c8f50a585369be	Available	vpc-03bf6dab171856c3f my-v...	25.0.26.0/24	-	251

CREATE SUBNET:4

Create subnet [Info](#)

VPC

VPC ID

Create subnets in this VPC.

Associated VPC CIDRs

IPv4 CIDRs

Subnet 1 of 1

Subnet name

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

private-subnet-2

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.

US West (N. California) / us-west-1b

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

25.0.0.0/16

IPv4 subnet CIDR block

25.0.27.0/24256 IPs

You have successfully created 1 subnet: subnet-0adc8c04615a72de2

Subnets (1) [Info](#)

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

Subnet ID : subnet-0adc8c04615a72de2

Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available I
private-subnet-2	subnet-0adc8c04615a72de2	Available	vpc-03bf6dab171856c3f my-v...	25.0.27.0/24	-	251

CREATE SUBNET:5

VPC

VPC ID

Create subnets in this VPC.

vpc-03bf6dab171856c3f (my-vpc-01)

Associated VPC CIDRs

IPv4 CIDRs

25.0.0.0/16

Subnet 1 of 1

Subnet name

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

private-subnet-rds-1

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.

US West (N. California) / us-west-1a

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

25.0.0.0/16

IPv4 subnet CIDR block

25.0.24.0/24256 IPs

You have successfully created 1 subnet: subnet-0db035d56b27630ff

Subnets (1) [Info](#)

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

Subnet ID : subnet-0db035d56b27630ff

Clear filters

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IP
<input type="checkbox"/>	private-subnet-rds-1	subnet-0db035d56b27630ff	Available	vpc-03bf6dab171856c3f my-v...	25.0.24.0/24	-	251

CREATE SUBNET:6

VPC

VPC ID

Create subnets in this VPC.

vpc-03bf6dab171856c3f (my-vpc-01)

Associated VPC CIDRs

IPv4 CIDRs

25.0.0.0/16

Subnet 1 of 1

Subnet name

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

private-subnet-rds-2

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.

US West (N. California) / us-west-1b

IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

25.0.0.0/16

IPv4 subnet CIDR block

25.0.23.0/24

256 IPs

You have successfully created 1 subnet: subnet-0b4870b314ee15bd0

Subnets (1) [Info](#)

Find resources by attribute or tag

Subnet ID: subnet-0b4870b314ee15bd0

Clear filters

Last updated less than a minute ago

Actions

Create subnet

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IP
<input type="checkbox"/>	private-subnet-rds-2	subnet-0b4870b314ee15bd0	Available	vpc-03bf6dab171856c3f my-v...	25.0.23.0/24	-	251

Subnets (8) [Info](#)

Find resources by attribute or tag

Last updated less than a minute ago

Actions

Create subnet

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IP
<input type="checkbox"/>	-	subnet-0354e52b8c0560b1e	Available	vpc-0e4e3a5244cf87b2a	172.31.16.0/20	-	4091
<input type="checkbox"/>	-	subnet-0aeeea7fd0e064a71	Available	vpc-0e4e3a5244cf87b2a	172.31.0.0/20	-	4091
<input type="checkbox"/>	public-subnet-1	subnet-08ae3e646408b5cf1	Available	vpc-03bf6dab171856c3f my-v...	25.0.0.0/24	-	251
<input type="checkbox"/>	public-subnet-2	subnet-0ea8c2bc50b5400b2	Available	vpc-03bf6dab171856c3f my-v...	25.0.25.0/24	-	251
<input type="checkbox"/>	private-subnet-1	subnet-014c8f50a585369be	Available	vpc-03bf6dab171856c3f my-v...	25.0.26.0/24	-	251
<input type="checkbox"/>	private-subnet-2	subnet-0adcc8c04615a72de2	Available	vpc-03bf6dab171856c3f my-v...	25.0.27.0/24	-	251
<input type="checkbox"/>	private-subnet-rds-1	subnet-0db035d56b27630ff	Available	vpc-03bf6dab171856c3f my-v...	25.0.24.0/24	-	251
<input type="checkbox"/>	private-subnet-rds-2	subnet-0b4870b314ee15bd0	Available	vpc-03bf6dab171856c3f my-v...	25.0.23.0/24	-	251

CREATE INTERNET GATEWAY AND ATTACH TO VPC:

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.

igw-1

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

Q Name X

Value - optional

Q igw-1 X

Remove

Remove Name

Add new tag

You can add 49 more tags.

Cancel

Create internet gateway

The following Internet gateway was created: igw-08c601ffa658778a8 - igw-1. You can now attach to a VPC to enable the VPC to communicate with the Internet.

Attach to a VPC X

VPC > Internet gateways > igw-08c601ffa658778a8

igw-08c601ffa658778a8 / igw-1

Actions ▼

Details Info

Internet gateway ID igw-08c601ffa658778a8	State Detached	VPC ID -	Owner 471112914581
--	-------------------	-------------	-----------------------

The following Internet gateway was created: igw-08c601ffa658778a8 - igw-1. You can now attach to a VPC to enable the VPC to communicate with the Internet.

Attach to a VPC X

VPC > Internet gateways > Attach to VPC (igw-08c601ffa658778a8)

Attach to VPC (igw-08c601ffa658778a8) 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-03bf6dab171856c3f X

AWS Command Line Interface command

Cancel Attach internet gateway

igw-08c601ffa658778a8 / igw-1

Actions ▼

Details Info

Internet gateway ID igw-08c601ffa658778a8	State Attached	VPC ID vpc-03bf6dab171856c3f my-vpc-01	Owner 471112914581
--	-------------------	---	-----------------------

CREATE NAT GATEWAY

Create NAT gateway [Info](#)

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

NAT gateway settings

Name - optional

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

ngw-1

The name can be up to 256 characters long.

Subnet

Select a subnet in which to create the NAT gateway.

subnet-014c8f50a585369be (private-subnet-1)

Connectivity type

Select a connectivity type for the NAT gateway.

Public

☐ Private

Elastic IP allocation ID [Info](#)

Assign an Elastic IP address to the NAT gateway.

eipalloc-0d788c4a8c2e71bd4

Allocate Elastic IP






✔ NAT gateway nat-063020c52faebb898 | ngw-1 was created successfully.

VPC > NAT gateways > nat-063020c52faebb898

nat-063020c52faebb898 / ngw-1

Actions ▼

Details

<p>NAT gateway ID</p> <p> nat-063020c52faebb898</p> <p>NAT gateway ARN</p> <p> arn:aws:ec2:us-west-1:471112914581:natgateway/nat-063020c52faebb898</p> <p>VPC</p> <p> vpc-03bf6dab171856c3f / my-vpc-01</p>	<p>Connectivity type</p> <p>Public</p> <p>Primary public IPv4 address</p> <p>–</p> <p>Subnet</p> <p>subnet-014c8f50a585369be / private-subnet-1</p>	<p>State</p> <p> Pending</p> <p>Primary private IPv4 address</p> <p>–</p> <p>Created</p> <p> Sunday, August 4, 2024 at 13:37:51 GMT+5:30</p>	<p>State message Info</p> <p>–</p> <p>Primary network interface ID</p> <p>–</p> <p>Deleted</p> <p>–</p>
--	---	--	---

CREATE ROUTE TABLE:1

Public 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.

public-route-table

VPC

The VPC to use for this route table.

vpc-03bf6dab171856c3f (my-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

Value - optional

Q Name

X

Q public-route-table

X

Remove

Add new tag

You can add 49 more tags.

Cancel

Create route table

Route table rtb-0bc991119331373bf | public-route-table was created successfully.

VPC > Route tables > rtb-0bc991119331373bf

rtb-0bc991119331373bf / public-route-table

Actions

Details

Info

Route table ID

rtb-0bc991119331373bf

VPC

vpc-03bf6dab171856c3f | my-vpc-01

Main

No

Owner ID

471112914581

Explicit subnet associations

-

Edge associations

-

Here I edit the public route and attach internet gateway

VPC > Route tables > rtb-0bc991119331373bf

rtb-0bc991119331373bf / public-route-table

Actions

Details

Info

Route table ID

rtb-0bc991119331373bf

VPC

vpc-03bf6dab171856c3f | my-vpc-01

Main

No

Owner ID

471112914581

Explicit subnet associations

-

Edge associations

-

Set main route table

Edit subnet associations

Edit edge associations

Edit route propagation

Edit routes

Manage tags

Delete

Edit routes

Destination

25.0.0.0/16

Target

local

Status

Active

Propagated

No

Q 0.0.0.0/0

X

Internet Gateway

-

Remove

Q igw-08c601ffa658778a8

X

Add route

Cancel

Preview

Save changes

EDIT THE SUBNET ASSOCIATIONS AND ATTACH THE TWO PUBLIC SUBNETS TO PUBLIC ROUTE TABLE

Updated routes for rtb-0bc991119331373bf / public-route-table successfully

Details

VPC > Route tables > rtb-0bc991119331373bf

rtb-0bc991119331373bf / public-route-table

Actions

Details

Route table ID
rtb-0bc991119331373bf

VPC
vpc-03bf6dab171856c3f | my-vpc-01

Main
No

Owner ID
471112914581

Explicit subnet associations
-

Edge associations
-

Set main route table

Edit subnet associations

Edit edge associations

Edit route propagation

Edit routes

Manage tags

Delete

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/6)

Filter subnet associations

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/>	public-subnet-1	subnet-08ac3e646408b5cf1	25.0.0.0/24	-	Main (rtb-0fee20a6d265d2983)
<input checked="" type="checkbox"/>	public-subnet-2	subnet-0ea8c2bc50b5400b2	25.0.25.0/24	-	Main (rtb-0fee20a6d265d2983)
<input type="checkbox"/>	private-subnet-1	subnet-014c8f50a585369be	25.0.26.0/24	-	Main (rtb-0fee20a6d265d2983)
<input type="checkbox"/>	private-subnet-2	subnet-0ad3c8c04615a72de2	25.0.27.0/24	-	Main (rtb-0fee20a6d265d2983)
<input type="checkbox"/>	private-subnet-rds-1	subnet-0db035d56b27630ff	25.0.24.0/24	-	Main (rtb-0fee20a6d265d2983)
<input type="checkbox"/>	private-subnet-rds-2	subnet-0b4870b314ee15bd0	25.0.23.0/24	-	Main (rtb-0fee20a6d265d2983)

Selected subnets

subnet-08ac3e646408b5cf1 / public-subnet-1 subnet-0ea8c2bc50b5400b2 / public-subnet-2

Cancel

Save associations

Route tables (1/3)

Find resources by attribute or tag

Last updated less than a minute ago

Actions

Create route table

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-07428df14ab151455	-	-	Yes	vpc-0e4e3a5244cf87b2a	471112914581
<input checked="" type="checkbox"/>	public-route-table	rtb-0bc991119331373bf	2 subnets	-	No	vpc-03bf6dab171856c3f my-v...	471112914581

CREATE ROUTE TABLE:2

PRIVATE 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.

private-route-table

VPC

The VPC to use for this route table.

vpc-03bf6dab171856c3f (my-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

Value - optional

Q Name

X

Q private-route-table

X

Remove

Add new tag

You can add 49 more tags.

Cancel

Create route table

Route table rtb-0019248b907bce46c | private-route-table was created successfully.

VPC > Route tables > rtb-0019248b907bce46c

rtb-0019248b907bce46c / private-route-table

Actions

Details

Info

Route table ID

rtb-0019248b907bce46c

VPC

vpc-03bf6dab171856c3f | my-vpc-01

Main

No

Owner ID

471112914581

Explicit subnet associations

-

Edge associations

-

HERE I EDIT SUBNET ASSOCIATION AND ATTACH FOUR PRIVATE SUBNETS TO THE PRIVATE ROUTE TABLE

VPC > Route tables > rtb-0019248b907bce46c

rtb-0019248b907bce46c / private-route-table

Actions

Details

Info

Route table ID

rtb-0019248b907bce46c

VPC

vpc-03bf6dab171856c3f | my-vpc-01

Main

No

Owner ID

471112914581

Explicit subnet associations

-

Edge associations

-

Set main route table

Edit subnet associations

Edit edge associations

Edit route propagation

Edit routes

Manage tags

Delete

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (4/6)

Filter subnet associations

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	public-subnet-1	subnet-08ae3e646408b5cf1	25.0.0.0/24	-	rtb-0bc991119331373bf / public-route-table
<input type="checkbox"/>	public-subnet-2	subnet-0ea8c2b550b5400b2	25.0.25.0/24	-	rtb-0bc991119331373bf / public-route-table
<input checked="" type="checkbox"/>	private-subnet-1	subnet-014c8f50a585369be	25.0.26.0/24	-	Main (rtb-0fee20a6d265d2983)
<input checked="" type="checkbox"/>	private-subnet-2	subnet-0adc8c04615a72de2	25.0.27.0/24	-	Main (rtb-0fee20a6d265d2983)
<input checked="" type="checkbox"/>	private-subnet-rds-1	subnet-0db035d56b27630ff	25.0.24.0/24	-	Main (rtb-0fee20a6d265d2983)
<input checked="" type="checkbox"/>	private-subnet-rds-2	subnet-0b4870b314ee15bd0	25.0.23.0/24	-	Main (rtb-0fee20a6d265d2983)

Selected subnets

subnet-014c8f50a585369be / private-subnet-1 X subnet-0adc8c04615a72de2 / private-subnet-2 X subnet-0db035d56b27630ff / private-subnet-rds-1 X subnet-0b4870b314ee15bd0 / private-subnet-rds-2 X

Cancel Save associations

You have successfully updated subnet associations for rtb-0019248b907bce46c / private-route-table.

VPC > Route tables > rtb-0019248b907bce46c

rtb-0019248b907bce46c / private-route-table

Actions

Details info

Route table ID rtb-0019248b907bce46c	Main No	Explicit subnet associations 4 subnets	Edge associations -
VPC vpc-03bf6dab171856c3f my-vpc-01	Owner ID 471112914581		

NOW EDIT THE PRIVATE ROUTE TABLE AND ATTACH NAT GATEWAY

VPC > Route tables > rtb-0019248b907bce46c

rtb-0019248b907bce46c / private-route-table

Actions

Details info

Route table ID rtb-0019248b907bce46c	Main No	Explicit subnet associations 4 subnets	Edge associations -
VPC vpc-03bf6dab171856c3f my-vpc-01	Owner ID 471112914581		

Set main route table
Edit subnet associations
Edit edge associations
Edit route propagation
Edit routes
Manage tags
Delete

Edit routes

Destination	Target	Status	Propagated
25.0.0.0/16	local	Active	No
Q. 0.0.0.0/0 X	NAT Gateway	-	No
	Q. nat-063020c52faebb89d X		

Add route

Cancel Preview Save changes

Updated routes for rtb-0019248b907bce46c / private-route-table successfully

VPC > Route tables > rtb-0019248b907bce46c

rtb-0019248b907bce46c / private-route-table

Actions

Details info

Route table ID rtb-0019248b907bce46c	Main No	Explicit subnet associations 4 subnets	Edge associations -
VPC vpc-03bf6dab171856c3f my-vpc-01	Owner ID 471112914581		

HERE I GO TO ACTION AND EDIT SUBNET SETTINGS TO ENABLE AUTO ASSIGN PUBLIC IPV4 ADDRESS

Subnets (1/8) [Info](#)

Last updated 1 minute ago

Find resources by attribute or tag

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	-	subnet-0354e52b8c0560b1e	Available	vpc-0e4e3a5244cf87b2a	172.31.16.0/20
<input type="checkbox"/>	-	subnet-0ae0ea7fd0e064a71	Available	vpc-0e4e3a5244cf87b2a	172.31.0.0/20
<input checked="" type="checkbox"/>	public-subnet-1	subnet-08ae3e646408b5cf1	Available	vpc-03bf6dab171856c3f my-v...	25.0.0.0/24
<input type="checkbox"/>	public-subnet-2	subnet-0ea8c2bc50b5400b2	Available	vpc-03bf6dab171856c3f my-v...	25.0.25.0/24
<input type="checkbox"/>	private-subnet-1	subnet-014c8f50a585369be	Available	vpc-03bf6dab171856c3f my-v...	25.0.26.0/24
<input type="checkbox"/>	private-subnet-2	subnet-0a0c8c04615a72de2	Available	vpc-03bf6dab171856c3f my-v...	25.0.27.0/24
<input type="checkbox"/>	private-subnet-rds-1	subnet-0db035d56b27630ff	Available	vpc-03bf6dab171856c3f my-v...	25.0.24.0/24
<input type="checkbox"/>	private-subnet-rds-2	subnet-0b4870b314ee15bd0	Available	vpc-03bf6dab171856c3f my-v...	25.0.23.0/24

Actions

Create subnet

View details

Create flow log

Edit subnet settings

Edit IPv6 CIDRs

Edit network ACL association

Edit route table association

Edit CIDR reservations

Share subnet

Manage tags

Delete subnet

Edit subnet settings [Info](#)

Subnet

Subnet ID

subnet-08ae3e646408b5cf1

Name

public-subnet-1

Auto-assign IP settings [Info](#)

Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.

☒ Enable auto-assign public IPv4 address [Info](#)

☐ Enable auto-assign customer-owned IPv4 address [Info](#)
Option disabled because no customer owned pools found.

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 [Info](#)

☐ Enable resource name DNS AAAA record on launch [Info](#)

Hostname type [Info](#)

☐ Resource name

☒ IP name

You have successfully changed subnet settings:
• Enable auto-assign public IPv4 address

NOTE: HERE SAME PROCESS TO REMAINING FIVE SUBNETS

CREATE SECURITY GROUPS: 02

SECURITY GROUP:1

Create security group [info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name [info](#)

sec-group-1

Name cannot be edited after creation.

Description [info](#)

nothing

VPC [info](#)

vpc-03bf6dab171856c3f (my-vpc-01)

Inbound rules [info](#)

Type info	Protocol info	Port range info	Source info	Description - optional info	
SSH	TCP	22	Anywhere...	0.0.0.0/0	Delete
				0.0.0.0/0	
HTTP	TCP	80	Anywhere...	0.0.0.0/0	Delete
				0.0.0.0/0	

Add rule

Security group (sg-074adf85903afa3e7 | sec-group-1) was created successfully

[Details](#)

SECURITY GROUP:2

Create security group [info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name [info](#)

sec-group-2

Name cannot be edited after creation.

Description [info](#)

nothing

VPC [info](#)

vpc-03bf6dab171856c3f (my-vpc-01)

Inbound rules [info](#)

Type info	Protocol info	Port range info	Source info	Description - optional info	
SSH	TCP	22	Anywhere...	0.0.0.0/0	Delete
				0.0.0.0/0	
HTTP	TCP	80	Anywhere...	0.0.0.0/0	Delete
				0.0.0.0/0	

Add rule

Security group (sg-0655d1a9fa5574aec | sec-group-2) was created successfully

[Details](#)

NOW LAUNCH TWO TEMPLATES:

FIRST TEMPLATE NAME: public-template

Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - *required*

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.

Template version description

Max 255 chars

Auto Scaling guidance | [Info](#)


Select this if you intend to use this template with EC2 Auto Scaling


☐ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

Recents

Quick Start

Don't include
in launch
template

Amazon
Linux


Ubuntu


Windows


Red Hat


SUSE L




[Browse more AMIs](#)

Including AMIs from
AWS, Marketplace and
the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-0b36f2748d7665334 (64-bit (x86), uefi-preferred) / ami-09b373e652bc4f475 (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

▼ Instance type [Info](#) | [Get advice](#)

[Advanced](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand RHEL base pricing: 0.0282 USD per Hour
On-Demand SUSE base pricing: 0.0138 USD per Hour
On-Demand Windows base pricing: 0.0184 USD per Hour
On-Demand Linux base pricing: 0.0138 USD per Hour

☒ All generations

[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name

swethaa

 [Create new key pair](#)

▼ Network settings [Info](#)

Subnet [Info](#)

Don't include in launch template ▼

 [Create new subnet](#) 

When you specify a subnet, a network interface is automatically added to your template.

Firewall (security groups) [Info](#)

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.


☒ Select existing security group

☐ Create security group

Security groups [Info](#)

Select security groups ▼

sec-group-1 sg-074adf85903afa3e7 ✕
VPC: vpc-03bf6dab171856c3f

 [Compare security group rules](#)

► [Advanced network configuration](#)

 **Success**
Successfully created public-template(lt-0f5a00b347abc667e).

SECOND TEMPLATE NAME: private-template

Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - *required*

private-template

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.

Template version description

nothing

Max 255 chars

Auto Scaling guidance [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

☐ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

▼ Instance type Info | Get advice

Advanced

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand RHEL base pricing: 0.0282 USD per Hour
On-Demand SUSE base pricing: 0.0138 USD per Hour
On-Demand Windows base pricing: 0.0184 USD per Hour
On-Demand Linux base pricing: 0.0138 USD per Hour

☒ All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name

swethaa

Create new key pair

▼ Network settings Info

Subnet Info

Don't include in launch template

Create new subnet

When you specify a subnet, a network interface is automatically added to your template.

Firewall (security groups) Info

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.

☒ Select existing security group

☐ Create security group

Security groups Info

Select security groups

Compare security group rules

sec-group-2 sg-0655d1a9fa5574aec X

VPC: vpc-03bf6dab171856c3f

Success

Successfully created private-template(lt-0588f7ee0a086b644).

Launch Templates (2) Info

Search

1

<input type="checkbox"/>	Launch Template ID	Launch Template Name	Default Version	Latest Version	Create Time	Created By
<input type="checkbox"/>	lt-0f5a00b347abc667e	public-template	1	1	2024-08-04T08:21:34.000Z	arn:aws:iam::471112914581:root
<input type="checkbox"/>	lt-0588f7ee0a086b644	private-template	1	1	2024-08-04T08:23:17.000Z	arn:aws:iam::471112914581:root

LAUNCH AUTO SCALINGS GROUPS TWO:

FIRST AUTO SCALING GROUP NAME: autoscaling-public

Create Auto Scaling group

Get started with EC2 Auto Scaling by creating an Auto Scaling group.

Create Auto Scaling group

Choose launch template [Info](#)

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.

Name

Auto Scaling group name
Enter a name to identify the group.

autoscaling-public

Must be unique to this account in the current Region and no more than 255 characters.

Launch template [Info](#)

i For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

public-template ▼



Create a launch template [↗](#)

Network Info

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-03bf6dab171856c3f (my-vpc-01)
25.0.0.0/16




[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-1a | subnet-08ae3e646408b5cf1 (public-
subnet-1) 
25.0.0.0/24

us-west-1b | subnet-0ea8c2bc50b5400b2 (public-
subnet-2) 
25.0.25.0/24

[Create a subnet](#)

Load balancing [Info](#)

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 fronted by a load balancer.

☐ Attach to an existing load balancer

Choose from your existing load balancers.

☒ Attach to a new load balancer

Quickly create a basic load balancer to attach to your Auto Scaling group.

Attach to a new load balancer

Define a new load balancer to create for attachment to this Auto Scaling group.

Load balancer type

Choose from the load balancer types offered below. Type selection cannot be changed after the load balancer is created. If you need a different type of load balancer than those offered here, visit the [Load Balancing console](#).

☒ Application Load Balancer

HTTP, HTTPS

☐ Network Load Balancer

TCP, UDP, TLS

Load balancer name

Name cannot be changed after the load balancer is created.

autoscaling-public-1

Load balancer scheme

Scheme cannot be changed after the load balancer is created.

☐ Internal

☒ Internet-facing

VPC

vpc-03bf6dab171856c3f [↗](#)

my-vpc-01

Availability Zones and subnets

You must select a single subnet for each Availability Zone enabled. Only public subnets are available for selection to support DNS resolution.

☒ us-west-1b

subnet-0ea8c2bc50b5400b2 ▼

☒ us-west-1a

subnet-08ae3e646408b5cf1 ▼

Listeners and routing

If you require secure listeners, or multiple listeners, you can configure them from the [Load Balancing console](#) [↗](#) after your load balancer is created.

Protocol

HTTP

Port

80

Default routing (forward to)

Create a target group ▼

New target group name

An instance target group with default settings will be created.

autoscaling-public-1-tg

Desired capacity
Specify your group size.

2

Scaling [Info](#)

You can resize your Auto Scaling group manually or automatically to meet changes in demand.

Scaling limits

Set limits on how much your desired capacity can be increased or decreased.

Min desired capacity

2

Equal or less than desired capacity

Max desired capacity

5

Equal or greater than desired capacity

Auto Scaling groups (1) [Info](#)



Launch configurations

Launch templates [↗](#)

Actions [▼](#)

Create Auto Scaling group

Search your Auto Scaling groups

< 1 > ⚙

<input type="checkbox"/>	Name ▼	Launch template/configuration ↗ ▼	Instances ▼	Status ▼	Desired capacity ▼	Min ▼	Max ▼	Availability Zones ▼
<input type="checkbox"/>	autoscaling-public	public-template Version Default	0	Updating capacity...	2	2	5	us-west-1a, us-west-1b

SECOND AUTO SCALING GROUP NAME: autoscaling-private

Choose launch template [Info](#)

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.

Name

Auto Scaling group name

Enter a name to identify the group.

autoscaling-private

Must be unique to this account in the current Region and no more than 255 characters.

Launch template [Info](#)

- [i](#) For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template

Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

private-template



Create a launch template [↗](#)

Network [Info](#)

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-03bf6dab171856c3f (my-vpc-01)
25.0.0.0/16



[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-1a | subnet-014c8f50a585369be (private-
subnet-1) ✕
25.0.26.0/24

us-west-1b | subnet-0adc8c04615a72de2 (private-
subnet-2) ✕
25.0.27.0/24

us-west-1a | subnet-0db035d56b27630ff (private-
subnet-rds-1) ✕
25.0.24.0/24

us-west-1b | subnet-0b4870b314ee15bd0
(private-subnet-rds-2) ✕
25.0.23.0/24

[Create a subnet](#)

Load balancing [Info](#)

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 fronted by a load balancer.

☐ Attach to an existing load balancer

Choose from your existing load balancers.

☒ Attach to a new load balancer

Quickly create a basic load balancer to attach to your Auto Scaling group.

Attach to a new load balancer

Define a new load balancer to create for attachment to this Auto Scaling group.

Load balancer type

Choose from the load balancer types offered below. Type selection cannot be changed after the load balancer is created. If you need a different type of load balancer than those offered here, visit the [Load Balancing console](#).

☒ Application Load Balancer

HTTP, HTTPS

☐ Network Load Balancer

TCP, UDP, TLS

Load balancer name

Name cannot be changed after the load balancer is created.

autoscaling-private-1

Load balancer scheme

Scheme cannot be changed after the load balancer is created.

☒ Internal

☐ Internet-facing

VPC

vpc-03bf6dab171856c3f [↗](#)

my-vpc-01

Availability Zones and subnets

You must select a single subnet for each Availability Zone enabled. Only public subnets are available for selection to support DNS resolution.

☒ us-west-1b

subnet-0b4870b314ee15bd0 ▼

☒ us-west-1a

subnet-0db035d56b27630ff ▼

Listeners and routing

If you require secure listeners, or multiple listeners, you can configure them from the [Load Balancing console](#) [↗](#) after your load balancer is created.

Protocol

HTTP

Port

80

Default routing (forward to)

Create a target group ▼

New target group name

An instance target group with default settings will be created.

autoscaling-private-1-tg

Health check grace period [Info](#)

This time period delays the first health check until your instances finish initializing. It doesn't prevent an instance from terminating when placed into a non-running state.

30 seconds

Desired capacity

Specify your group size.

2

Scaling [Info](#)

You can resize your Auto Scaling group manually or automatically to meet changes in demand.

Scaling limits

Set limits on how much your desired capacity can be increased or decreased.

Min desired capacity

2

Equal or less than desired capacity

Max desired capacity

5

Equal or greater than desired capacity

Auto Scaling groups (2) [Info](#)

Search your Auto Scaling groups

<input type="checkbox"/>	Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
<input type="checkbox"/>	autoscaling-private	private-template Version Default	2	-	2	2	5	us-west-1a, us-west-1b
<input type="checkbox"/>	autoscaling-public	public-template Version Default	2	-	2	2	5	us-west-1a, us-west-1b

AUTOMATICALLY CREATED EC2 INSTANCES

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input type="checkbox"/>		i-0701c2c2ae28cee76	Running	t2.micro	Initializing	View alarms +	us-west-1a	-	54.177.95.72
<input type="checkbox"/>		i-0542ebf015b7ef9a8	Running	t2.micro	2/2 checks passed	View alarms +	us-west-1a	-	3.101.21.32
<input type="checkbox"/>		i-0c73561050a795e16	Running	t2.micro	2/2 checks passed	View alarms +	us-west-1b	-	50.18.76.89
<input type="checkbox"/>		i-09768de1f3e456f05	Running	t2.micro	Initializing	View alarms +	us-west-1b	-	13.56.156.174

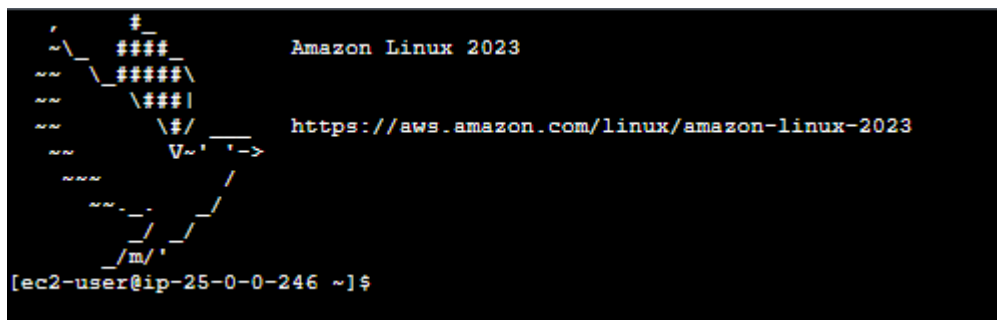
GIVE THE NAMES TO THE EC2 INSTANCES:

Instances (1/4) [Info](#)

Find Instance by attribute or tag (case-sensitive)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input type="checkbox"/>	private-1	i-0701c2c2ae28cee76	Running	t2.micro	Initializing	View alarms +	us-west-1a	-	54.177.95.72
<input type="checkbox"/>	public-1	i-0542ebf015b7ef9a8	Running	t2.micro	2/2 checks passed	View alarms +	us-west-1a	-	3.101.21.32
<input type="checkbox"/>	public-2	i-0c73561050a795e16	Running	t2.micro	2/2 checks passed	View alarms +	us-west-1b	-	50.18.76.89
<input checked="" type="checkbox"/>	private-2	i-09768de1f3e456f05	Running	t2.micro	Initializing	View alarms +	us-west-1b	-	13.56.156.174

PUBLIC1 INSTANCE CONNECT TO THE WEB:



```

Last login: Sun Aug  4 08:40:06 2024 from 13.52.6.116
[ec2-user@ip-25-0-0-246 ~]$ sudo -i
[root@ip-25-0-0-246 ~]# yum update -y
Last metadata expiration check: 0:25:13 ago on Sun Aug  4 08:31:59 2024.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-25-0-0-246 ~]# yum install nginx -y

```

```

Installed:
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch      gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64      libunwind-1.4.0-5.amzn2023.0.2.x86_64      nginx-1:1.24.0-1.amzn2023.0.2.x86_64
  nginx-core-1:1.24.0-1.amzn2023.0.2.x86_64              nginx-filestream-1:1.24.0-1.amzn2023.0.2.noarch    nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch

Complete!
[root@ip-25-0-0-246 ~]#

```

```

[root@ip-25-0-0-246 ~]# cd /usr/share/html
-bash: cd: /usr/share/html: No such file or directory
[root@ip-25-0-0-246 ~]# cd /usr/share/nginx/html
[root@ip-25-0-0-246 html]# ls
404.html  50x.html  icons  index.html  nginx-logo.png  poweredby.png
[root@ip-25-0-0-246 html]# rm index.html
rm: remove regular file 'index.html'? yes
[root@ip-25-0-0-246 html]# vi index.html
[root@ip-25-0-0-246 html]# systemctl restart nginx
[root@ip-25-0-0-246 html]#

```

EC2 > Instances > i-0542ebf015b7ef9a8

Instance summary for i-0542ebf015b7ef9a8 (public-1) [Info](#) [Refresh](#) [Connect](#) [Instance state](#) [Actions](#)

Updated 4 minutes ago

<p>Instance ID</p> <p>i-0542ebf015b7ef9a8 (public-1)</p> <p>IPv6 address</p> <p>—</p> <p>Hostname type</p> <p>ID www.in-25.0.0.246.us-west-1.compute.internal</p>	<p>Public IPv4 address copied</p> <p>3.101.21.32 open address</p> <p>Instance state</p> <p>Running</p> <p>Private IP DNS name (IPv4 only)</p> <p>in-25.0.0.246.us-west-1.compute.internal</p>	<p>Private IPv4 addresses</p> <p>25.0.0.246</p> <p>Public IPv4 DNS</p> <p>—</p>
---	---	---

Console Home | Console Home | SecurityGroup | VPC Console | Instance details | EC2 | us-west-1 | EC2 Instance Connect | us-west-1 | 3.101.21.32

← → ↺ ⚠ Not secure 3.101.21.32

this is nginx! pub

PUBLIC1 INSTANCE ATTACHED TO PRIVATE1 INSTANCE


```
[root@ip-25-0-25-32 ~]# cd /usr/share/nginx/html
[root@ip-25-0-25-32 html]# ls
404.html  50x.html  icons  index.html  nginx-logo.png  poweredby.png
[root@ip-25-0-25-32 html]# rm index.html
rm: remove regular file 'index.html'? yes
[root@ip-25-0-25-32 html]# vi index.html
[root@ip-25-0-25-32 html]# systemctl restart nginx
[root@ip-25-0-25-32 html]#
```

Instance ID i-0c73561050a795e16 (public-2)	Public IPv4 address 50.18.76.89 open address	Private IPv4 addresses 25.0.25.32
IPv6 address —	Public IPv4 address copied	Public IPv4 DNS —



this is nginx pub2

PUBLIC2 INSTANCE ATTACH TO PRIVATE2 INSTANCE

```
[root@ip-25-0-25-32 html]# vi swethaa.pem
[root@ip-25-0-25-32 html]# chmod 400 "swethaa.pem"
[root@ip-25-0-25-32 html]# ssh -i "swethaa.pem" ec2-user@25.0.23.188
The authenticity of host '25.0.23.188 (25.0.23.188)' can't be established.
ED25519 key fingerprint is SHA256:3CSFG4cjOyI29j/7Wnc208nJPOHsRcSddqYZbn1RVk4.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '25.0.23.188' (ED25519) to the list of known hosts.

#_
#####      Amazon Linux 2023
~\  _#####\
~~  \#####\
~~   \###|
~~    \#/      https://aws.amazon.com/linux/amazon-linux-2023
~~     V~'  ->
~~~~
~~  _-_-_-_-_-
~~ /m/ '

[ec2-user@ip-25-0-23-188 ~]$ sudo -i
[root@ip-25-0-23-188 ~]# ls
[root@ip-25-0-23-188 ~]#
```

CREATE DATABASE:

Create database

Choose a database creation method [Info](#)

☒ **Standard create**

You set all of the configuration options, including ones for availability, security, backups, and maintenance.

☐ **Easy create**

Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

☐ Aurora (MySQL Compatible)



☐ Aurora (PostgreSQL Compatible)



☒ **MySQL**



☐ MariaDB



Templates

Choose a sample template to meet your use case.

☐ **Production**

Use defaults for high availability and fast, consistent performance.

☐ **Dev/Test**

This instance is intended for development use outside of a production environment.

☒ **Free tier**

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.

[Info](#)

Settings

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

☒ **Managed in AWS Secrets Manager - *most secure***

RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☐ **Self managed**

Create your own password or have RDS create a password that you manage.

i If you manage the master user credentials in AWS Secrets Manager, additional charges apply. See [AWS Secrets Manager pricing](#). Additionally, some RDS features aren't supported. See [limitations here](#).

Select the encryption key [Info](#)

You can encrypt using the KMS key that Secrets Manager creates or a customer managed KMS key that you create.



[Add new key](#)

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

▼ Hide filters

☒ Show instance classes that support Amazon RDS Optimized Writes [Info](#)
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

☐ Include previous generation classes

- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ Burstable classes (includes t classes)

db.t3.micro

2 vCPUs 1 GiB RAM Network: 2,085 Mbps

Storage

Storage type [Info](#)

Provisioned IOPS SSD (io2) storage volumes are now available.

General Purpose SSD (gp2)

Baseline performance determined by volume size

Allocated storage [Info](#)

20

GiB

The minimum value is 20 GiB and the maximum value is 6,144 GiB

VPC security group (firewall) [Info](#)

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

☒ Choose existing

Choose existing VPC security groups

☐ Create new

Create new VPC security group

Existing VPC security groups

Choose one or more options

sec-group-1 ✕

sec-group-2 ✕

Availability Zone [Info](#)

us-west-1a

Certificate authority - optional [Info](#)

Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It is so by checking the server certificate that is automatically installed on all databases that you provision.

rds-ca-rsa2048-g1 (default)

Expiry: May 20, 2061

If you don't select a certificate authority, RDS chooses one for you.

RDS > Databases

Databases (1) Group resources Modify Actions Restore from S3 Create database

Filter by databases

DB identifier	Status	Role	Engine	Region & AZ	Size	Recommendations	CPU	Current activity	M
database-1	Available	Instance	MySQL Community	us-west-1a	db.t3.micro		9.60%	0 Connections	n

CREATE DB SUBNET GROUP:

Create DB subnet group

To create a new subnet group, give it a name and a description, and choose an existing VPC. You will then be able to add subnets related to that VPC.

Subnet group details

Name

You won't be able to modify the name after your subnet group has been created.

DB-subnet

Must contain from 1 to 255 characters. Alphanumeric characters, spaces, hyphens, underscores, and periods are allowed.

Description

nothing

VPC

Choose a VPC identifier that corresponds to the subnets you want to use for your DB subnet group. You won't be able to choose a different VPC identifier after your subnet group has been created.

my-vpc-01 (vpc-03bf6dab171856c3f)

Add subnets

Availability Zones

Choose the Availability Zones that include the subnets you want to add.

Choose an availability zone

us-west-1a us-west-1b

Subnets

Choose the subnets that you want to add. The list includes the subnets in the selected Availability Zones.

Select subnets

subnet-0b4870b314ee15bd0 (25.0.23.0/24)

subnet-0db035d56b27630ff (25.0.24.0/24)

For Multi-AZ DB clusters, you must select 3 subnets in 3 different Availability Zones.

Subnets selected (2)		
Availability zone	Subnet ID	CIDR block
us-west-1b	subnet-0b4870b314ee15bd0	25.0.23.0/24
us-west-1a	subnet-0db035d56b27630ff	25.0.24.0/24

Cancel

Create

Successfully created DB-subnet. [View subnet group](#)

RDS > Subnet groups

Subnet groups (2)

Filter by subnet group

<input type="checkbox"/>	Name	Description	Status	VPC
<input type="checkbox"/>	db-subnet	nothing	Complete	vpc-03bf6dab171856c3f
<input type="checkbox"/>	default-vpc-03bf6dab171856c3f	Created from the RDS Management Console	Complete	vpc-03bf6dab171856c3f

RDS > Databases > database-1

database-1

Summary

DB identifier database-1	Status Available	Role Instance	Engine MySQL Community
CPU 3.17%	Class db.t3.micro	Current activity 0 Connections	Region & AZ us-west-1a

Connectivity & security | Monitoring | Logs & events | Configuration | Maintenance & backups | Tags | Recommendations

Quick Actions - New

- Convert to Multi-AZ deployment
- Stop temporarily
- Reboot
- Delete
- Set up EC2 connection
- Set up Lambda connection
- Create read replica
- Create Aurora read replica
- Create Blue/Green Deployment - new

Set up EC2 connection [Info](#)

Select EC2 instance

Database
[database-1](#)

EC2 instance

Choose the EC2 instance to connect to this database. Only EC2 instances in the same VPC as the database are shown. If no EC2 instances in the same VPC are available, you can create a new EC2 instance.

[i-0542ebf015b7ef9a8](#)
public-1 us-west-1a

[Create EC2 instance](#)

Cancel Continue

EC2 > Security Groups > [sg-074adf85903afa3e7 - sec-group-1](#) > Edit inbound rules

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules [Info](#)

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0cc4e6055427d8b28	HTTP	TCP	80	Custom	<input type="text" value="0.0.0.0/0"/>
sgr-07226f69a83a5f809	SSH	TCP	22	Custom	<input type="text" value="0.0.0.0/0"/>
-	MySQL/Aurora	TCP	3306	Anywhere...	<input type="text" value="0.0.0.0/0"/>

Add rule

CREATE DB SNAPSHOT:

RDS > Snapshots > Take snapshot

Take DB Snapshot

Preferences

To take a DB Snapshot, choose a database and name your DB Snapshot.

Snapshot type

☒ DB instance

☐ DB cluster

DB instance

DB Instance Identifier. This is the unique key that identifies a DB Instance.

database-1

Snapshot name

Identifier for the DB Snapshot.

DB-SNAPSHOT

Snapshot identifier is case insensitive, but stored as all lower-case, as in "mysnapshot". Cannot be null, empty, or blank. Must contain from 1 to 255 alphanumeric characters or hyphens. First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens.

Cancel

Take snapshot

Snapshots

Manual | System | Shared with me | Public | Backup service | Exports in Amazon S3

Manual snapshots (1)

Filter by manual snapshots

Actions

Take snapshot

<input type="checkbox"/>	Snapshot name	DB instance or cluster	Snapshot creation time	DB Instance created time
<input type="checkbox"/>	db-snapshot	database-1	August 04, 2024, 15:36 (UTC+05:30)	August 04, 2024, 15:29 (UTC+05:30)