

Create VPC [info](#)

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

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.

IPv4 CIDR block [info](#)

- ☒ IPv4 CIDR manual input
- ☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

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

Activate Windows
Go to Settings to activate Windows.

aws

Services

Q Search

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VPC dashboard

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Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

You successfully created vpc-0790c94cb09b490e1 / My-VPC-P2

VPC > Your VPCs > vpc-0790c94cb09b490e1

vpc-0790c94cb09b490e1 / My-VPC-P2

Actions

Details

Info

VPC ID

vpc-0790c94cb09b490e1

Tenancy

Default

Default VPC

No

Network Address Usage metrics

Disabled

State

Available

DHCP option set

dopt-0faf905c8dbf05a94

IPv4 CIDR

20.20.0.0/16

Route 53 Resolver DNS Firewall rule groups

-

DNS hostnames

Disabled

Main route table

rtb-026b90ab1cc1f0be5

IPv6 pool

-

Owner ID

440968628646

DNS resolution

Enabled

Main network ACL

acl-08ee4a2d25411385e

IPv6 CIDR (Network border group)

-

Resource map

CIDRs

Flow logs

Tags

Integrations

Resource map

Info

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You have successfully created 3 subnets: subnet-05b609fa75a90e404, subnet-026432e42c75a914e, subnet-04936319e0f9b1e6f

Subnets (3)

Find resources by attribute or tag

Subnet ID : subnet-05b609fa75a90e404

Subnet ID : subnet-026432e42c75a914e

Subnet ID : subnet-04936319e0f9b1e6f

Clear filters

< 1 >

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	Public-01	subnet-05b609fa75a90e404	Available	vpc-0790c94cb09b490e1 My-...	20.20.1.0/24
<input type="checkbox"/>	Private-01	subnet-026432e42c75a914e	Available	vpc-0790c94cb09b490e1 My-...	20.20.3.0/24
<input type="checkbox"/>	Public-02	subnet-04936319e0f9b1e6f	Available	vpc-0790c94cb09b490e1 My-...	20.20.2.0/24

Select a subnet

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Internet gateway igw-0178514da4973f3ec successfully attached to vpc-0790c94cb09b490e1

Notifications

VPC > Internet gateways > igw-0178514da4973f3ec

igw-0178514da4973f3ec / AWS-P2-IGW

Actions

Details

Internet gateway ID	State	VPC ID	Owner
igw-0178514da4973f3ec	Attached	vpc-0790c94cb09b490e1 My VPC-P2	440968628646

Tags

Search tags

Manage tags

Key	Value
Name	AWS-P2-IGW

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NAT gateways

NAT gateway nat-0e11376893458d75d | AWS-P2-NGW was created successfully.

VPC > NAT gateways > nat-0e11376893458d75d

nat-0e11376893458d75d / AWS-P2-NGW

Actions

Details

NAT gateway ID nat-0e11376893458d75d	Connectivity type Public	State Pending	State message Info
NAT gateway ARN arn:aws:ec2:us-east-1:440968628646:natgateway/nat-0e11376893458d75d	Primary public IPv4 address -	Primary private IPv4 address -	Primary network interface ID -
VPC vpc-0790c94cb09b490e1 / My-VPC-P2	Subnet subnet-05b609fa75a90e404 / Public-01	Created Friday, September 13, 2024 at 21:43:59 GMT+5:30	Deleted -

Secondary IPv4 addresses

Monitoring

Tags

Secondary IPv4 addresses

Search

Edit secondary IPv4 address associations

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NAT gateways

Updated routes for rtb-0937fe7bd51157e77 / My-Route-Private successfully

Details

Route tables (1/4)

Info

Last updated less than a minute ago

Actions

Create route table

Find resources by attribute or tag

< 1 >

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-0c2240d52f5339ec1	-	-	Yes	vpc-031b5669f6b300b51
<input type="checkbox"/>	-	rtb-026b90ab1cc1f0be5	-	-	Yes	vpc-0790c94cb09b490e1
<input type="checkbox"/>	MY-Route-Public	rtb-039a1244ef34a7773	2 subnets	-	No	vpc-0790c94cb09b490e1
<input checked="" type="checkbox"/>	My-Route-Private	rtb-0937fe7bd51157e77	subnet-026432e42c75a9...	-	No	vpc-0790c94cb09b490e1

rtb-0937fe7bd51157e77 / My-Route-Private

DetailsRoutesSubnet associationsEdge associationsRoute propagationTags

Details

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Launch an instance

Info

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

Info

Name

My-AWS-P2-Public

Add additional tags

▼ Application and OS Images (Amazon Machine Image)

Info

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

macOS

Ubuntu

Windows

Red Hat

SUSE L

▼ Summary

Number of instances

Info

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...read more

ami-0e86e20dae9224db8

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

Cancel

Launch instance

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AMI Catalog

Instances (2)

Info

Last updated 1 minute ago

Refresh

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance state = running

Clear filters

< 1 >

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Put
<input type="checkbox"/>	My-AWS-P2-Private	i-0a3a8e634c9b8d3bc	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a	-
<input type="checkbox"/>	My-AWS-P2-Public	i-08d903e68c929d3c4	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a	-

Select an instance

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Amazon S3

Buckets

Account snapshot - updated every 24 hours

All AWS Regions

View Storage Lens dashboard

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose buckets

Directory buckets

General purpose buckets (2)

Info

All AWS Regions

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 >

	Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/>	elasticbeanstalk-us-east-1-440968628646	US East (N. Virginia) us-east-1	View analyzer for us-east-1	May 4, 2023, 07:56:13 (UTC+05:30)
<input type="radio"/>	my-aws-p2-buck	US East (N. Virginia) us-east-1	View analyzer for us-east-1	September 13, 2024, 22:19:26 (UTC+05:30)

This is my Application Page
About Us

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RDS

Create database

Create database

Choose a database creation method

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

Aurora (MySQL Compatible)



Aurora (PostgreSQL Compatible)



MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

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Amazon RDS

Dashboard

Databases

Query Editor

Performance insights

Snapshots

Exports in Amazon S3

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Custom engine versions

Zero-ETL integrations

New

Successfully created database my-p2rdsdb

View connection details

You can use settings from my-p2rdsdb to simplify configuration of suggested database add-ons while we finish creating your DB for you.

RDS

Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases (1)

Group resources

Modify

Actions

Restore from S3

Create database

Filter by databases

DB identifier	Status	Role	Engine	Region & AZ	Size	Recommendations	CPU
my-p2rdsdb	Available	Instance	MySQL Community	us-east-1a	db.t3.micro		-

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Imports from S3

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Subnet groups

Parameter groups

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Share your feedback on Amazon DynamoDB

Your feedback is an important part of helping us provide a better customer experience. Take this short survey to let us know how we're doing.

Share feedback

The employee_image_table table was created successfully.

DynamoDB > Tables

Tables (1)

Find tables

Any tag key

Any tag value

< 1 >

	Name	Status	Partition key	Sort key	Indexes	Deletion protection	Read capacity mode	Write capacity m
	employee_image_table	Active	empid (N)	-	0	Off	Provisioned (5)	Provisioned (5)

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New

Successfully attached mymainrole-sarthak to instance i-0a3a8e634c9b8d3bc

Instances (1/2)

Info

Last updated 5 minutes ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Put
<input checked="" type="checkbox"/>	My-AWS-P2-Private	i-0a3a8e634c9b8d3bc	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	-
<input type="checkbox"/>	My-AWS-P2-Public	i-08d903e68c929d3c4	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	-

i-0a3a8e634c9b8d3bc (My-AWS-P2-Private)

Details

Status and alarms

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AMI Catalog

Successfully created load balancer: My-AWS-P2ALB

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

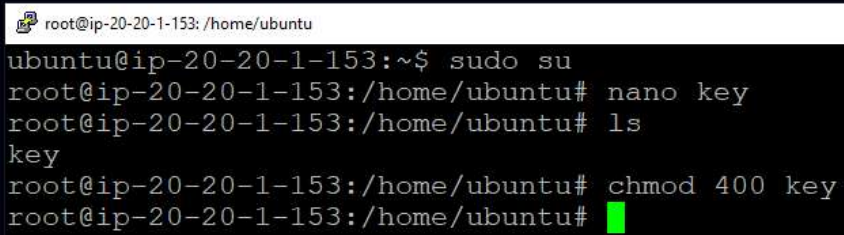
EC2 > Load balancers > My-AWS-P2ALB

My-AWS-P2ALB

Actions

Details

Load balancer type	Status	VPC	Load balancer IP address type
Application	Provisioning	vpc-0790c94cb09b490e1	IPv4
Scheme	Hosted zone	Availability Zones	Date created
Internet-facing	Z35SXD0TRQ7X7K	subnet-05b609fa75a90e404 us-east-1a (use1-az4)	September 13, 2024, 23:23 (UTC+05:30)
		subnet-04936319e0f9b1e6f us-east-1b (use1-az6)	
Load balancer ARN	DNS name		
arn:aws:elasticloadbalancing:us-east-1:440968628646:loadbalancer/app/My-AWS-P2ALB/36b148b03b1ff1d4	My-AWS-P2ALB-183318476.us-east-1.elb.amazonaws.com (A Record)		



A terminal window titled "root@ip-20-20-1-153: /home/ubuntu" with standard window controls. The terminal shows a user switching to root via "sudo su", then using "nano key" to create a file. After exiting nano, the user runs "ls" and sees "key". Finally, they run "chmod 400 key" to set permissions, and a green cursor is visible on the next line.

```
root@ip-20-20-1-153: /home/ubuntu
ubuntu@ip-20-20-1-153:~$ sudo su
root@ip-20-20-1-153:/home/ubuntu# nano key
root@ip-20-20-1-153:/home/ubuntu# ls
key
root@ip-20-20-1-153:/home/ubuntu# chmod 400 key
root@ip-20-20-1-153:/home/ubuntu#
```

ubuntu@ip-20-20-3-28: ~

Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-aws x86_64)

- * Documentation: <https://help.ubuntu.com>
- * Management: <https://landscape.canonical.com>
- * Support: <https://ubuntu.com/pro>

System information as of Fri Sep 13 18:35:04 UTC 2024

System load:	0.0	Processes:	104
Usage of /:	22.9% of 6.71GB	Users logged in:	0
Memory usage:	30%	IPv4 address for enX0:	20.20.3.28
Swap usage:	0%		

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: `sudo pro status`

The list of available updates is more than a week old.
To check for new updates run: `sudo apt update`

ubuntu@ip-20-20-3-28: ~/aws-code-main

```
Selecting previously unselected package python3-s3transfer.
Preparing to unpack .../python3-s3transfer_0.10.1-1ubuntu2_all.deb ...
Unpacking python3-s3transfer (0.10.1-1ubuntu2) ...
Selecting previously unselected package python3-boto3.
Preparing to unpack .../python3-boto3_1.34.46+dfsg-1ubuntu1_all.deb ...
Unpacking python3-boto3 (1.34.46+dfsg-1ubuntu1) ...
Setting up python3-jmespath (1.0.1-1) ...
Setting up python3-dateutil (2.8.2-3ubuntu1) ...
Setting up python3-botocore (1.34.46+repack-1ubuntu1) ...
Setting up python3-s3transfer (0.10.1-1ubuntu2) ...
Setting up python3-boto3 (1.34.46+dfsg-1ubuntu1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-20-20-3-28:~/aws-code-main$
```

```
ubuntu@ip-20-20-3-28: ~/aws-code-main
ERROR 1050 (42S01): Table 'employee' already exists
mysql> exit
Bye
ubuntu@ip-20-20-3-28:~$ ls
aws-code-main
ubuntu@ip-20-20-3-28:~$ cd aws-code-main
ubuntu@ip-20-20-3-28:~/aws-code-main$ ls
EmpApp.py  README.md  __pycache__  config.py  templates
ubuntu@ip-20-20-3-28:~/aws-code-main$ nano config.py
ubuntu@ip-20-20-3-28:~/aws-code-main$ sudo python3 EmpApp.py
* Serving Flask app 'EmpApp'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:80
* Running on http://20.20.3.28:80
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 140-640-947
20.20.2.95 - - [13/Sep/2024 21:19:55] "GET / HTTP/1.1" 200 -
20.20.1.155 - - [13/Sep/2024 21:20:12] "GET / HTTP/1.1" 200 -
```

EMPLOYEE DATABASE

GET EMPLOYEE
INFORMATION

Employee ID:

First Name:

Last Name:

Primary Skills:

Location:

Image: No file chosen

UPDATE DATABASE

About Us

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EMPLOYEE DATABASE

GET EMPLOYEE
INFORMATION

Employee ID:

0069

First Name:

Kamal

Last Name:

Sharma

Primary Skills:

AWS

Location:

India

Image: 873532-dev...rovement.jpg

UPDATE DATABASE

About Us

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SAVE SUCCESSFUL

Following Employee has been added to the database

Kamal Sharma

GO BACK

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my-aws-p2-buck

my-aws-p2-buck

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Objects (3)

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Copy URL

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Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Show versions

< 1 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 aboutus.html	html	September 13, 2024, 22:25:03 (UTC+05:30)	126.0 B	Standard
<input type="checkbox"/>	 emp-id-0069_image_file	-	September 14, 2024, 02:53:25 (UTC+05:30)	499.5 KB	Standard
<input type="checkbox"/>	 error.html	html	September 13, 2024, 22:25:05 (UTC+05:30)	147.0 B	Standard

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Any tag value

Find tables

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⚙

employee_image_table

▼ Scan or query items

☒ Scan

☐ Query

Select a table or index

Table - employee_image_table

Select attribute projection

All attributes

► Filters

Run

Reset

✔ Completed. Read capacity units consumed: 0.5

Items returned (1)

⌵

empid (Number)

⌵

image_url

⌵

⌵

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https://s3.amazonaws.com/my-aws-p2-buck/emp-id-0069/image_file/S

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