

aws

Services

Search

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Oregon

Sarthak Giri Goswami

VPC

Your VPCs

Create VPC

Create VPC

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

VPC settings

Resources to create

Create only the VPC resource or the VPC and other networking resources.

VPC only

VPC and more

Name tag auto-generation

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

Auto-generate

AWS Project1-Sarthak

IPv4 CIDR block

Determine the starting IP and the size of your VPC using CIDR notation.

10.0.20.0/16

65,536 IPs

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

Preview

VPC

Show details

Your AWS virtual network

AWS Project1-Sarthak-vpc

Subnets (2)

Subnets within this VPC

us-west-2a

AWS Project1-Sarthak-subnet-

us-west-2b

AWS Project1-Sarthak-subnet-

CloudShell

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IPv4 CIDR block

Info

No IPv6 CIDR block

Amazon-provided IPv6 CIDR block

Tenancy

Info

Default

Number of Availability Zones (AZs)

Info

Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.

1

2

3

Customize AZs

Number of public subnets

Info

The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.

0

2

Number of private subnets

Info

The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0

2

4

Customize subnets CIDR blocks

CloudShell

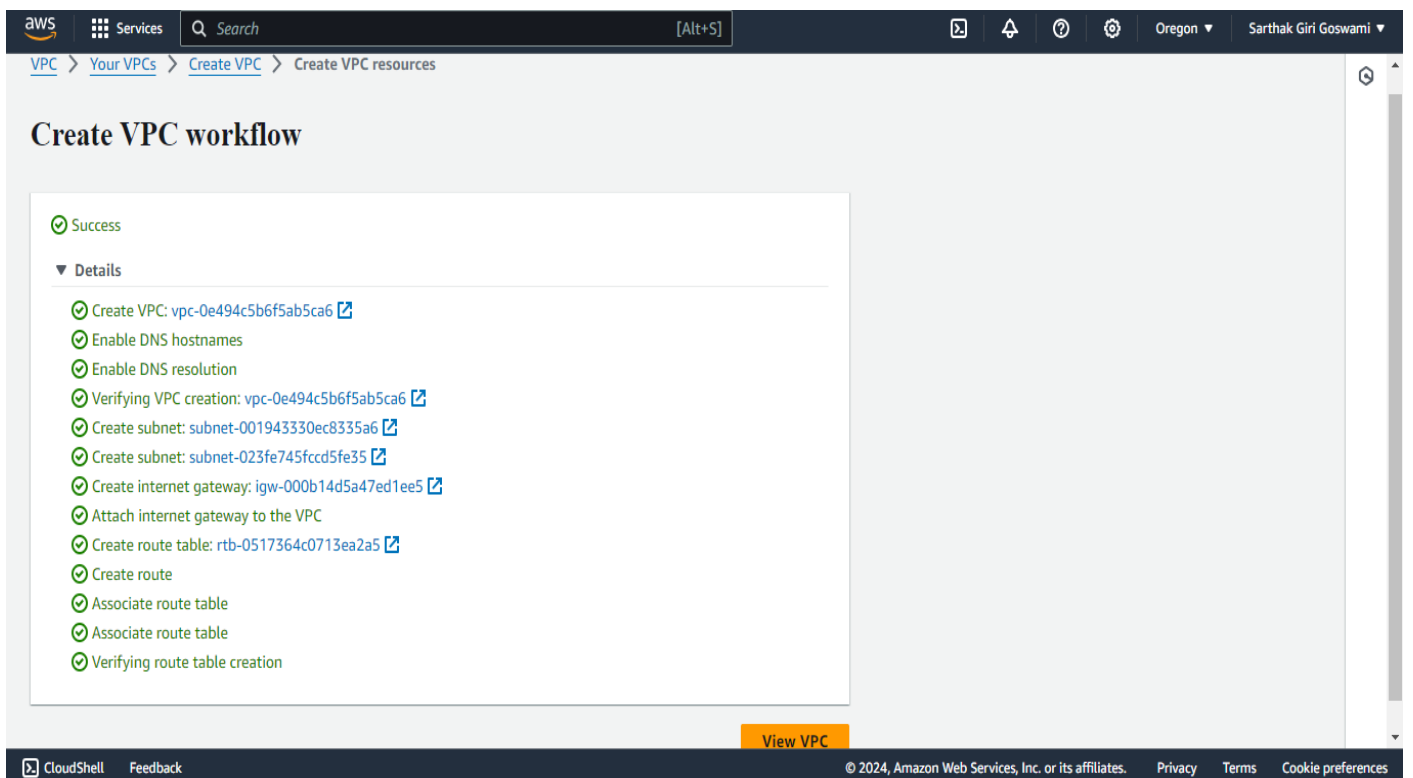
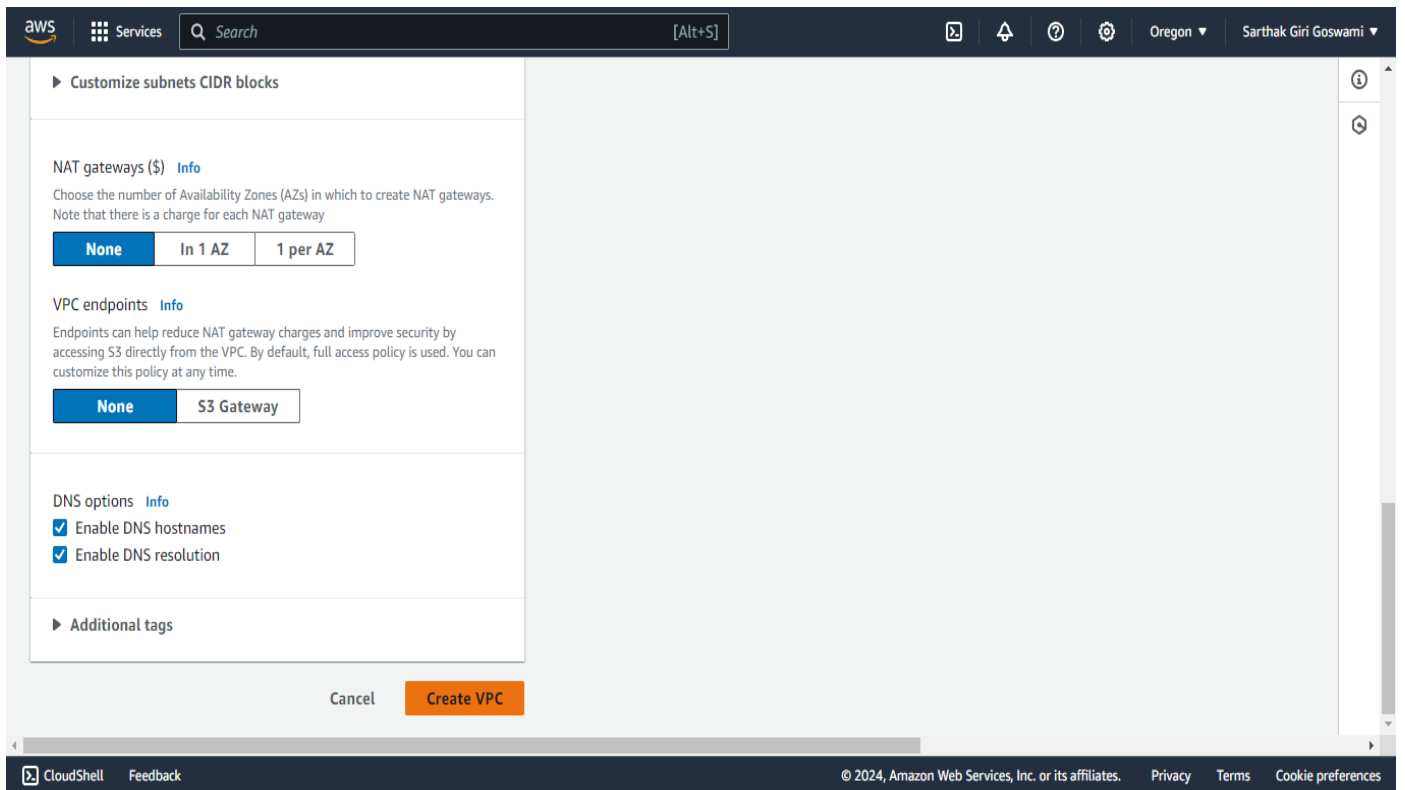
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The screenshot displays the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services' link, a search bar containing '[Alt+S]', and user information for 'Oregon' and 'Sarthak Giri Goswami'. On the left sidebar, under 'Virtual private cloud', the 'Your VPCs' section is active. The main content area shows the title 'vpc-0e494c5b6f5ab5ca6 / AWS Project1-Sarthak-vpc' with an 'Actions' dropdown menu. Below the title, there are two tabs: 'Details' (selected) and 'Info'. The 'Details' tab contains a table with four columns representing different attributes of the VPC.

Details Info			
VPC ID vpc-0e494c5b6f5ab5ca6	State Available	DNS hostnames Enabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-00471940e6113ef06	Main route table rtb-08c045df6a0b71a25	Main network ACL acl-02ee9de730bf15978
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 440968628646	

Below the table, there are five tabs: 'Resource map' (selected), 'CIDRs', 'Flow logs', 'Tags', and 'Integrations'. The 'Resource map' tab is currently selected, showing its header 'Resource map Info'.

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EC2

Instances

Launch an instance

Success

Successfully initiated launch of instance (i-06fd59ce63b697ffb)

Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

< 1 2 3 4 5 6 >

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Create billing alerts

Connect to your instance

Once your instance is running, log into it from your local computer.

Connect to instance

Learn more

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

Connect an RDS database

Create a new RDS database

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

Create EBS snapshot policy

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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

AWS Project1-Sarthak-EC2 Instance

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 Linux

macOS

Ubuntu

Windows

Red Hat

SUSE L

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances

Info

1

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, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

Review commands

CloudShell

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Usage of /: 23.2% of 6.71GB

Users logged in: 0

Memory usage: 20%

IPv4 address for enX0: 10.0.8.112

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 programs included with the Ubuntu system are free software;

the exact distribution terms for each program are described in the

individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by

applicable law.

To run a command as administrator (user "root"), use "`sudo <command>`".

See "`man sudo_root`" for details.

ubuntu@ip-10-0-8-112:~\$

i-06fd59ce63b697ffb (AWS Project1-Sarthak-EC2 Instance)

PublicIPs: 35.93.143.131 PrivateIPs: 10.0.8.112

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← → ↺

Not secure 35.93.143.131

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Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.


If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview





Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|   |-- ports.conf  
|-- mods-enabled  
|   |-- *.load  
|   |-- *.conf  
|-- conf-enabled
```

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```
Unpacking unzip (6.0-28ubuntu4) ...
Setting up unzip (6.0-28ubuntu4) ...
Processing triggers for man-db (2.12.0-4build2) ...
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-10-0-8-112:~$ ls
code.zip
ubuntu@ip-10-0-8-112:~$ unzip code.zip
Archive:  code.zip
  creating: 1243/images/
  inflating: 1243/images/1.png
  inflating: 1243/images/2.png
  inflating: 1243/index.php
ubuntu@ip-10-0-8-112:~$
```

i-06fd59ce63b697ffb (AWS Project1-Sarthak-EC2 Instance)
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Name:

Email:

Submit

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Name:

Email:

Submit

New record created successfully

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```
mysql> show tables;
+-----+
| data |
+-----+
1 row in set (0.00 sec)

mysql> show tabs;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'tabs' at line 1
mysql> show tables;
+-----+
| Tables_in_intel |
+-----+
| data |
+-----+
1 row in set (0.00 sec)

mysql> select * from data;
+-----+-----+
| firstname | email |
+-----+-----+
| abc | abc@gmail.com |
+-----+-----+
1 row in set (0.01 sec)

mysql>
```

i-06fd59ce63b697ffb (AWS Project1-Sarthak-EC2 Instance) ✕
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EC2 > Instances > i-06fd59ce63b697ffb > Create image

Create image

info

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID

i-06fd59ce63b697ffb (AWS Project1-Sarthak-EC2 Instance)

Image name

AWS Project1-Sarthak- EC2Image

Maximum 127 characters. Can't be modified after creation.

Image description - optional

Image description

Maximum 255 characters

No reboot

☒ Enable

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...	3000		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

Add volume

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Capacity

Reservations

Images

AMI Catalog

Elastic Block Store

Network & Security

Load Balancing

Auto Scaling

Amazon Machine Images (AMIs) (1)

Info

Owned by me

Find AMI by attribute or tag

Recycle Bin

EC2 Image Builder

Actions

Launch instance from AMI

	Name	AMI name	AMI ID	Source	Owner	Visibility	Status
<input type="checkbox"/>		AWS Project1-Sarthak- EC2Image	ami-0602c2a855cb3dce9	440968628646/AWS Project1-Sarthak- ...	440968628646	Private	Pend

Select an AMI

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Reservations

Images

AMIs

AMI Catalog

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Network & Security

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Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Target Groups

Trust Stores

Auto Scaling

Auto Scaling Groups

EC2 > Target groups

Target groups (1/1)

Filter target groups

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
AWSProject1-Sarthak-ASGALBTG	arn:aws:elasticloadbalanci...	80	HTTP	Instance	AWSProject1-Sarthak-ASGALB	vpc-0e494c5b6f5ab5ca6

Target group: AWSProject1-Sarthak-ASGALBTG

Details

Targets

Monitoring

Health checks

Attributes

Tags

Registered targets (3)

Anomaly mitigation: Not applicable

Deregister

Register targets

Filter targets

Instance ID	Name	Port	Zone	Health status	Health status details	Launch time	Anomaly detection re...
i-0a0a7619b98bf8a4b		80	us-west-2a	Healthy	-	April 27, 2024, 03:11 (U...	Normal
i-02710e10a73c18f04		80	us-west-2a	Healthy	-	April 27, 2024, 03:11 (U...	Normal
i-0f8247fa945680eb1		80	us-west-2b	Healthy	-	April 27, 2024, 03:11 (U...	Normal

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EC2 Dashboard

EC2 Global View

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Instances

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Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Instances (4/4)

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
i-0f8247fa945680eb1	i-0f8247fa945680eb1	Running	t2.micro	2/2 checks passed	View alarms	us-west-2b	ec2-35-166-161-5.us-w...	35.166.1
AWS Project1-Sarthak-EC2 In...	i-06fd59ce63b697ffb	Running	t2.micro	2/2 checks passed	View alarms	us-west-2a	ec2-35-93-143-131.us...	35.93.14
i-02710e10a73c18f04	i-02710e10a73c18f04	Running	t2.micro	2/2 checks passed	View alarms	us-west-2a	ec2-18-246-210-248.us...	18.246.2
i-0a0a7619b98bf8a4b	i-0a0a7619b98bf8a4b	Running	t2.micro	2/2 checks passed	View alarms	us-west-2a	ec2-52-11-156-11.us-w...	52.11.15

4 instances selected

Monitoring

Alarm recommendations

1h 3h 12h 1d 3d 1w Custom UTC timezone

CPU utilization (%)

Percent

4.67

2.33

0

20:45 21:00 21:15 21:30 21:45

Network in (bytes)

Bytes

33.1k

16.6k

0

20:45 21:00 21:15 21:30 21:45

Network out (bytes)

Bytes

25.0k

12.5k

0

20:45 21:00 21:15 21:30 21:45

Network packets in (count)

Count

205

103

0

20:45 21:00 21:15 21:30 21:45

Network packets out (count)

Count

0

0

0

20:45 21:00 21:15 21:30 21:45

CPU credit usage (count)

Count

0

0

0

20:45 21:00 21:15 21:30 21:45

CPU credit balance (count)

Count

0

0

0

20:45 21:00 21:15 21:30 21:45

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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

Subnets (2/2) Info

Find resources by attribute or tag

Name

Subnet ID

State

VPC

IPv4 CIDR

AWS Project1-Sarthak-subnet-public1-...

subnet-001943330ec8335a6

Available

vpc-0e494c5b6f5ab5ca6 | AWS ...

10.0.0.0/24

AWS Project1-Sarthak-subnet-public2-...

subnet-023fe745fccd5fe35

Available

vpc-0e494c5b6f5ab5ca6 | AWS ...

10.0.16.0/24

Subnets: subnet-001943330ec8335a6, subnet-023fe745fccd5fe35

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```
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use intel;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from data;
+-----+-----+
| firstname | email |
+-----+-----+
| abc       | abc@gmail.com |
| efg       | efg@gmail.com |
| hij       | hij@yahoo.com |
| xyz       | xyz@gmail.com |
| ok        | OK@GMAIL.COM |
| NICE      | nice@gmail.com |
+-----+-----+
7 rows in set (0.00 sec)

mysql>
```

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