

VPC > Your VPCs > Create VPC

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

Tenancy Info

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

X

Value - optional

X

Remove tag

Add tag

You can add 49 more tags

Cancel

Preview code

Create VPC

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Activities

Google Chrome

Apr 3 18:32

73 %

vpcs | VPC Console

Instances | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/vpccconsole/home?region=ap-south-1#vpcs:

gmail | Console Home... | YouTube | ChatGPT

All Bookmarks

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

shreyashdemo

EC2 | VPC | Billing and Cost Manage...

VPC dashboard

EC2 Global View

Filter by VPC:

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Security

Network ACLs

Security groups

PrivateLink and Lattice

Getting started Updated

Endpoints Updated

Endpoint services

Service networks Updated

Lattice services

Resource configurations New

Your VPCs (1/2)

Info

Last updated about 1 hour ago

Actions

Create VPC

Search

	Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
<input type="checkbox"/>	main-VPC	<a href="#">vpc-086acf965e03b88ed</a>	Available	Off	172.31.0.0/16	-	<a href="#">dopt-0d4c2acd2159d6...</a>	<a href="#">rtb-018542cf50b...</a>
<input checked="" type="checkbox"/>	my-vpc	<a href="#">vpc-048ac18cdb202b214</a>	Available	Off	192.168.0.0/16	-	<a href="#">dopt-0d4c2acd2159d6...</a>	<a href="#">rtb-02275d78005...</a>

vpc-048ac18cdb202b214 / my-vpc

Details | Resource map | CIDRs | Flow logs | Tags | Integrations

Details

VPC ID

[vpc-048ac18cdb202b214](#)

DNS resolution

Enabled

Main network ACL

[acl-0ca6deeb8aaecba7d](#)

State

Available

Tenancy

default

Default VPC

No

Block Public Access

Off

DHCP option set

[dopt-0d4c2acd2159d6b46](#)

IPv4 CIDR

192.168.0.0/16

DNS hostnames

Disabled

Main route table

[rtb-02275d7800523728a](#)

IPv6 pool

-

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

VPC > Subnets > Create subnet

📘 ⓘ 🔄 🖨

Create subnet ⓘ

VPC

VPC ID

Create subnets in this VPC.

vpc-048ac18cdb202b214 (my-vpc) ▼

Associated VPC CIDRs

IPv4 CIDRs

192.168.0.0/16

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.

web-subnet

The name can be up to 256 characters long.

Availability Zone ⓘ

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

Asia Pacific (Mumbai) / ap-south-1a ▼

IPv4 VPC CIDR block ⓘ

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

192.168.0.0/16 ▼

IPv4 subnet CIDR block

192.168.16.0/20 4,096 IPs

< > ^ v

▼ Tags - optional

Key

Q Name ✕

Value - optional

Q web-subnet ✕

Remove

Add new tag

You can add 49 more tags.

Remove

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Activities

Google Chrome

Apr 3 18:34

72 %

subnets | VPC Console

Instances | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#subnets:

gmail | Console Home... | YouTube | ChatGPT

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

shreyashdemo

EC2 | VPC | Billing and Cost Manage...

VPC dashboard

EC2 Global View

Filter by VPC:

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Security

Network ACLs

Security groups

PrivateLink and Lattice

Getting started Updated

Endpoints Updated

Endpoint services

Service networks Updated

Lattice services

Resource configurations New

Subnets (1/5) Info

Find resources by attribute or tag

	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR	IPv6 CIDR	IPv6 C
<input type="checkbox"/>	db-subnet	subnet-02c49c5462a752681	Available	vpc-048ac18cdb202b214   my-...	Off	192.168.16.0/24	-	-
<input type="checkbox"/>	-	subnet-0d13bc377f21851cc	Available	vpc-086acf965e03b88ed   main...	Off	172.31.16.0/20	-	-
<input type="checkbox"/>	-	subnet-088dc469bd35b3774	Available	vpc-086acf965e03b88ed   main...	Off	172.31.32.0/20	-	-
<input checked="" type="checkbox"/>	web-subnet	subnet-046f804c3504b308c	Available	vpc-048ac18cdb202b214   my-...	Off	192.168.0.0/20	-	-
<input type="checkbox"/>	-	subnet-0015550bb08d693bc	Available	vpc-086acf965e03b88ed   main...	Off	172.31.0.0/20	-	-

subnet-046f804c3504b308c / web-subnet

Details

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details

Subnet ID

subnet-046f804c3504b308c

IPv4 CIDR

192.168.0.0/20

Availability Zone

ap-south-1a

Route table

Subnet ARN

arn:aws:ec2:ap-south-1:943143228347:subnet/subnet-046f804c3504b308c

Available IPv4 addresses

4091

Availability Zone ID

aps1-az1

State

Available

IPv6 CIDR

-

Network border group

ap-south-1

Default subnet

Block Public Access

Off

IPv6 CIDR association ID

-

VPC

vpc-048ac18cdb202b214 | my-vpc

Auto-assign public IPv4 address

CloudShell | Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. | Privacy | Terms | Cookie preferences

# 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.

my-rt

**VPC**  
The VPC to use for this route table.

vpc-048ac18cdb202b214 (my-vpc) ▼

### 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**

🔍 my-rt ✕

Remove

Add new tag

You can add 49 more tags.

Cancel

Create route table

🖥️ CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

### Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/2)

🔍 Filter subnet associations

< 1 > ⚙️

<input type="checkbox"/>	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	db-subnet	subnet-02c49c5462a752681	192.168.16.0/24	–	Main (rtb-02275d7800523728a / my-rt)
<input checked="" type="checkbox"/>	web-subnet	subnet-046f804c3504b308c	192.168.0.0/20	–	rtb-0c1d9022c6d9d1e2d / my-rt-2

Selected subnets

subnet-046f804c3504b308c / web-subnet ✕

Cancel

Save associations

☰

VPC dashboard <

EC2 Global View 📄

Filter by VPC: ▾

▼ Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

▼ Security

Network ACLs

Security groups

▼ PrivateLink and Lattice

Getting started [Updated](#)

Endpoints [Updated](#)

Endpoint services

Service networks [Updated](#)

Lattice services

Resource configurations [New](#)

Internet gateways (2) [Info](#)

🔄 Actions ▾

Create internet gateway

🔍 Search

<input type="checkbox"/>	Name ▾	Internet gateway ID ▾	State ▾	VPC ID ▾	Owner ▾
<input type="checkbox"/>	Main-IGW	<a href="#">igw-0a7ded7c7809e3397</a>	✔ Attached	<a href="#">vpc-086acf965e03b88ed</a>   <a href="#">main-VPC</a>	943143228347
<input type="checkbox"/>	my-igw	<a href="#">igw-0185f819204067c74</a>	✔ Attached	<a href="#">vpc-048ac18cdb202b214</a>   <a href="#">my-vpc</a>	943143228347

Select an internet gateway above

📄 🖨️ 📧

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)



### Edit routes

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	Active	No
	igw-0185f819204067c74		
<div>Add route</div>			



VPC dashboard

EC2 Global View

Filter by VPC:

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Security

Network ACLs

Security groups

PrivateLink and Lattice

Getting started Updated

Endpoints Updated

Endpoint services

Service networks Updated

Lattice services

Resource configurations New

Resource gateways New

Target groups

DNS firewall

You have successfully changed subnet settings:

Enable auto-assign public IPv4 address

Subnets (1/5)

Find resources by attribute or tag

	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR association ID	Availi
<input type="checkbox"/>	db-subnet	subnet-02c49c5462a752681	Available	vpc-048ac18cdb202b214   my-...	Off	192.168.16.0/24	-	-	251
<input type="checkbox"/>	-	subnet-0d13bc377f21851cc	Available	vpc-086acf965e03b88ed   main...	Off	172.31.16.0/20	-	-	4091
<input type="checkbox"/>	-	subnet-088dc469bd35b3774	Available	vpc-086acf965e03b88ed   main...	Off	172.31.32.0/20	-	-	4091
<input checked="" type="checkbox"/>	web-subnet	subnet-046f804c3504b308c	Available	vpc-048ac18cdb202b214   my-...	Off	192.168.0.0/20	-	-	4091
<input type="checkbox"/>	-	subnet-0015550bb08d693bc	Available	vpc-086acf965e03b88ed   main...	Off	172.31.0.0/20	-	-	4091

subnet-046f804c3504b308c / web-subnet

Details | Flow logs | Route table | Network ACL | CIDR reservations | Sharing | Tags

Route table: rtb-0c1d9022c6d9d1e2d / my-rt-2

Edit route table association

Routes (2)

Filter routes

Destination	Target
192.168.0.0/16	local
0.0.0.0/0	igw-0185f819204067c74

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

EC2 > Instances > Launch an Instance

▼ 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 - required

demoaws

▼

Create new key pair

▼ Network settings Info

VPC - required Info

vpc-048ac18cdb202b214 (my-vpc)

192.168.0.0/16

▼

Subnet Info

subnet-046f804c3504b308c

VPC: vpc-048ac18cdb202b214 Owner: 943143228347 Availability Zone: ap-south-1a Zone type: Availability Zone IP addresses available: 4091 CIDR: 192.168.0.0/20

web-subnet

▼

Create new subnet

Auto-assign public IP Info

Enable

▼

Additional charges apply when outside of free tier allowance

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.

Create security group

Select existing security group

Security group name - required

launch-wizard-9

▼

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

Description - required Info

launch-wizard-9 created 2025-04-03T13:08:15.056Z

▼

Inbound Security Group Rules

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

Type Info

ssh

▼

Protocol Info

TCP

▼

Port range Info

22

▼

Source type Info

Anywhere

▼

Source Info

Add CIDR, prefix list or security group

▼

Description - optional Info

e.g. SSH for admin desktop

▼

Remove

▼ Summary

Number of instances Info

1

▼

Software Image (AMI)

Amazon Linux 2023 AMI 2023.7.2...read more

ami-002f6e91abff6eb96

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 of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch Instance

Preview code

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Activities

Google Chrome

Apr 3 18:44

67 %

VPC | ap-south-1

Instances | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:

gmailConsole Home...YouTubeChatGPT

awsSearch[Alt+S]

EC2VPCBilling and Cost Manage...

EC2 > Instances

EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Target Groups

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

All states

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs	Mo
<input checked="" type="checkbox"/>	web-server	i-0575c1609890743d8	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a	-	15.206.172.2	-	-	dis
<input type="checkbox"/>	db-server	i-0cd7b0a60d46c546d	Running	t2.micro	Initializing	View alarms +	ap-south-1b	-	-	-	-	dis

i-0575c1609890743d8 (web-server)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary Info

Instance ID

i-0575c1609890743d8

IPv6 address

-

Hostname type

IP name: ip-192-168-11-208.ap-south-1.compute.internal

Answer private resource DNS name

-

Auto-assigned IP address

-

Public IPv4 address

15.206.172.2 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-192-168-11-208.ap-south-1.compute.internal

Instance type

t2.micro

VPC ID

-

Private IPv4 addresses

192.168.11.208

Public IPv4 DNS

-

Elastic IP addresses

-

AWS Compute Optimizer finding

-

CloudShellFeedback

© 2025, Amazon Web Services, Inc. or its affiliates. PrivacyTermsCookie preferences

```
[student@192 ~]$ scp -i ./Downloads/demoaws.pem ./Downloads/demoaws.pem ec2-user@15.206.172.2:demoaws.pem
[student@192 ~]$ scp -i ./Downloads/demoaws.pem ./Downloads/file.sh ec2-user@15.206.172.2:file.sh
[student@192 ~]$ ssh -i ./Downloads/demoaws.pem ec2-user@15.206.172.2
#
~\##### Amazon Linux 2023
~~~\#####
~~~\###|
~~~\#/ https://aws.amazon.com/linux/amazon-linux-2023
~~~V~'-'>
~~~~
~~~~_._'-'
~~~~_/_/-'
Last login: Thu Apr 3 13:16:18 2025 from 106.195.12.9
[ec2-user@ip-192-168-11-208 ~]$ ls
demoaws.pem  file.sh
[ec2-user@ip-192-168-11-208 ~]$
```

ActivitiesTerminal

Apr 3 18:49

ec2-user@ip-192-168-11-208:~

146 kB/s | 15 kB00:00

```
[ec2-user@ip-192-168-11-208 ~]$ sudo dnf install nginx php mariadb105-server -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.

=====
Package                                Architecture      Version           Repository        Size
=====
Installing:
mariadb105-server                      x86_64            3:10.5.25-1.amzn2023.0.1  amazonlinux      11 M
nginx                                  x86_64            1:1.26.3-1.amzn2023.0.1  amazonlinux      33 k
php8.4                                 x86_64            8.4.5-1.amzn2023.0.1    amazonlinux      17 k
Installing dependencies:
apr                                    x86_64            1.7.5-1.amzn2023.0.4    amazonlinux      129 k
apr-util                              x86_64            1.6.3-1.amzn2023.0.1    amazonlinux      98 k
generic-logos-httpd                  noarch            18.0.0-12.amzn2023.0.3  amazonlinux      19 k
gperftools-libs                      x86_64            2.9.1-1.amzn2023.0.3    amazonlinux     308 k
httpd-core                           x86_64            2.4.62-1.amzn2023       amazonlinux      1.4 M
httpd-filesystem                     noarch            2.4.62-1.amzn2023       amazonlinux      14 k
httpd-tools                          x86_64            2.4.62-1.amzn2023       amazonlinux      81 k
libbrotli                             x86_64            1.0.9-4.amzn2023.0.2    amazonlinux     315 k
libsodium                             x86_64            1.0.19-4.amzn2023       amazonlinux     176 k
libunwind                             x86_64            1.4.0-5.amzn2023.0.2    amazonlinux      66 k
libxslt                               x86_64            1.1.43-1.amzn2023.0.1    amazonlinux     183 k
mailcap                               noarch            2.1.49-3.amzn2023.0.3    amazonlinux      33 k
mariadb-connector-c                  x86_64            3.3.10-1.amzn2023.0.1    amazonlinux     211 k
mariadb-connector-c-config            noarch            3.3.10-1.amzn2023.0.1    amazonlinux      9.9 k
mariadb105                           x86_64            3:10.5.25-1.amzn2023.0.1  amazonlinux     1.6 M
mariadb105-common                    x86_64            3:10.5.25-1.amzn2023.0.1  amazonlinux      29 k
mariadb105-errmsg                    x86_64            3:10.5.25-1.amzn2023.0.1  amazonlinux     213 k
mysql-selinux                         noarch            1.0.4-2.amzn2023.0.3    amazonlinux      36 k
nginx-core                           x86_64            1:1.26.3-1.amzn2023.0.1  amazonlinux     670 k
nginx-filesystem                     noarch            1:1.26.3-1.amzn2023.0.1  amazonlinux      9.6 k
nginx-mimetypes                      noarch            2.1.49-3.amzn2023.0.3    amazonlinux      21 k
perl-B                                x86_64            1.80-477.amzn2023.0.6    amazonlinux     179 k
perl-DBD-MariaDB                     x86_64            1.22-1.amzn2023.0.4      amazonlinux     153 k
perl-DBI                             x86_64            1.643-7.amzn2023.0.3     amazonlinux     700 k
perl-Data-Dumper                     x86_64            2.174-460.amzn2023.0.2    amazonlinux      55 k
perl-File-Copy                       noarch            2.34-477.amzn2023.0.6     amazonlinux      20 k
perl-FileHandle                      noarch            2.03-477.amzn2023.0.6     amazonlinux      16 k
perl-Math-BigInt                     noarch            1:1.9998.39-2.amzn2023.0.2  amazonlinux     202 k
perl-Math-BigRat                     noarch            0.2614-458.amzn2023.0.2    amazonlinux      39 k
perl-Math-Complex                    noarch            1.59-477.amzn2023.0.6     amazonlinux      47 k
perl-Sys-Hostname                    x86_64            1.23-477.amzn2023.0.6     amazonlinux      18 k
perl-base                             noarch            2.27-477.amzn2023.0.6     amazonlinux      17 k
php8.4-cli                           x86_64            8.4.5-1.amzn2023.0.1     amazonlinux     3.8 M
php8.4-common                        x86_64            8.4.5-1.amzn2023.0.1     amazonlinux     797 k
php8.4-process                       x86_64            8.4.5-1.amzn2023.0.1     amazonlinux      53 k
php8.4-xml                           x86_64            8.4.5-1.amzn2023.0.1     amazonlinux     972 k
Installing weak dependencies:
apr-util-openssl                     x86_64            1.6.3-1.amzn2023.0.1     amazonlinux      17 k
httpd                                x86_64            2.4.62-1.amzn2023       amazonlinux      48 k
mariadb105-backup                    x86_64            3:10.5.25-1.amzn2023.0.1  amazonlinux     6.3 M
mariadb105-cracklib-password-check    x86_64            3:10.5.25-1.amzn2023.0.1  amazonlinux      15 k
mariadb105-gssapi-server              x86_64            3:10.5.25-1.amzn2023.0.1  amazonlinux      17 k
```



```
Activities Terminal Apr 3 18:51 ec2-user@ip-192-168-11-208:~

php8.4-pdo-8.4.5-1.amzn2023.0.1.x86_64 php8.4-process-8.4.5-1.amzn2023.0.1.x86_64 php8.4-sodium-8.4.5-1.amzn2023.0.1.x86_64
php8.4-xml-8.4.5-1.amzn2023.0.1.x86_64

Complete!
[ec2-user@ip-192-168-11-208 ~]$ sudo service nginx start
Redirecting to /bin/systemctl start nginx.service
[ec2-user@ip-192-168-11-208 ~]$ sudo systemctl enable nginx.service
sudo: systemctl: command not found
[ec2-user@ip-192-168-11-208 ~]$ sudo systemctl enable nginx.service
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
[ec2-user@ip-192-168-11-208 ~]$ sudo systemctl enable php-fpm.service
Created symlink /etc/systemd/system/multi-user.target.wants/php-fpm.service → /usr/lib/systemd/system/php-fpm.service.
[ec2-user@ip-192-168-11-208 ~]$ sudo service nginx status
Redirecting to /bin/systemctl status nginx.service
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: disabled)
   Drop-In: /usr/lib/systemd/system/nginx.service.d
            └─php-fpm.conf
   Active: active (running) since Thu 2025-04-03 13:19:25 UTC; 1min 34s ago
     Main PID: 23524 (nginx)
       Tasks: 2 (limit: 1111)
      Memory: 2.5M
         CPU: 61ms
    CGroup: /system.slice/nginx.service
            └─23524 "nginx: master process /usr/sbin/nginx"
              └─23527 "nginx: worker process"

Apr 03 13:19:25 ip-192-168-11-208.ap-south-1.compute.internal systemd[1]: Starting nginx.service - The nginx HTTP and reverse proxy server...
Apr 03 13:19:25 ip-192-168-11-208.ap-south-1.compute.internal nginx[23417]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Apr 03 13:19:25 ip-192-168-11-208.ap-south-1.compute.internal nginx[23417]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Apr 03 13:19:25 ip-192-168-11-208.ap-south-1.compute.internal systemd[1]: Started nginx.service - The nginx HTTP and reverse proxy server.
[ec2-user@ip-192-168-11-208 ~]$ sudo service php-fpm status
Redirecting to /bin/systemctl status php-fpm.service
● php-fpm.service - The PHP FastCGI Process Manager
   Loaded: loaded (/usr/lib/systemd/system/php-fpm.service; enabled; preset: disabled)
   Active: active (running) since Thu 2025-04-03 13:19:25 UTC; 1min 43s ago
     Main PID: 23414 (php-fpm)
   Status: "Processes active: 0, idle: 5, Requests: 0, slow: 0, Traffic: 0.00req/sec"
       Tasks: 6 (limit: 1111)
      Memory: 10.4M
         CPU: 57ms
    CGroup: /system.slice/php-fpm.service
            └─23414 "php-fpm: master process (/etc/php-fpm.conf)"
              └─23468 "php-fpm: pool www"
                └─23469 "php-fpm: pool www"
                  └─23470 "php-fpm: pool www"
                    └─23471 "php-fpm: pool www"
                      └─23472 "php-fpm: pool www"

Apr 03 13:19:25 ip-192-168-11-208.ap-south-1.compute.internal systemd[1]: Starting php-fpm.service - The PHP FastCGI Process Manager...
Apr 03 13:19:25 ip-192-168-11-208.ap-south-1.compute.internal systemd[1]: Started php-fpm.service - The PHP FastCGI Process Manager.
[ec2-user@ip-192-168-11-208 ~]$
```

ActivitiesTerminalApr 3 19:04ec2-user@ip-192-168-11-208:/usr/share/nginx/html57 %

GNU nano 8.3form.html

```
<!DOCTYPE HTML>
<html>
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Stylish Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .container {
      background: white;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
      width: 350px;
    }
    h2 {
      text-align: center;
      color: #333;
    }
    label {
      font-weight: bold;
      display: block;
      margin-top: 10px;
    }
    input, textarea {
      width: 100%;
      padding: 8px;
      margin-top: 5px;
      border: 1px solid #ccc;
      border-radius: 5px;
      font-size: 14px;
    }
    input:focus, textarea:focus {
      border-color: #007BFF;
      outline: none;
    }
    .gender-group {
      display: flex;
      justify-content: space-between;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <div class="container">
    <h2>Stylish Form</h2>
    <div>
      <label>Name</label>
      <input type="text">
    </div>
    <div>
      <label>Email</label>
      <input type="text">
    </div>
    <div>
      <label>Password</label>
      <input type="password">
    </div>
    <div>
      <label>Confirm Password</label>
      <input type="password">
    </div>
    <div>
      <input type="checkbox" /> Male
      <input type="checkbox" /> Female
    </div>
    <div>
      <input type="button" value="Submit" />
    </div>
  </div>
</body>
</html>
```

[ Read 95 lines ]

^G Help	^O Write Out	^F Where Is	^K Cut	^T Execute	^C Location	M-U Undo	M-A Set Mark	M-I To Bracket	M-B Previous	◀ Back
^X Exit	^R Read File	^N Replace	^U Paste	^J Justify	^/_ Go To Line	M-E Redo	M-6 Copy	^B Where Was	M-F Next	▶ Forward



ActivitiesTerminalApr 3 19:04ec2-user@ip-192-168-11-208:/usr/share/nginx/html57 %

GNU nano 8.3submit.php

<?php  
// Database credentials  
\$servername = "database-1.ccjtp6srfafk.us-east-1.rds.amazonaws.com";  
\$username = "admin";  
\$password = "admin\$123";  
\$dbname = "mydb";  
  
// Create connection  
\$conn = mysqli\_connect(\$servername, \$username, \$password, \$dbname);  
  
// Check connection  
if (!\$conn) {  
 die("Connection failed: " . mysqli\_connect\_error());  
}  
  
// Validate form data  
if (\$\_SERVER["REQUEST\_METHOD"] == "POST") {  
 \$name = mysqli\_real\_escape\_string(\$conn, \$\_POST["name"]);  
 \$email = mysqli\_real\_escape\_string(\$conn, \$\_POST["email"]);  
 \$website = mysqli\_real\_escape\_string(\$conn, \$\_POST["website"]);  
 \$comment = mysqli\_real\_escape\_string(\$conn, \$\_POST["comment"]);  
 \$gender = mysqli\_real\_escape\_string(\$conn, \$\_POST["gender"]);  
  
 // Check if required fields are empty  
 if (empty(\$name) || empty(\$email) || empty(\$gender)) {  
 die("Error: Name, Email, and Gender are required fields.");  
 }  
  
 // Validate email format  
 if (!filter\_var(\$email, FILTER\_VALIDATE\_EMAIL)) {  
 die("Error: Invalid email format.");  
 }  
  
 // Prepare SQL statement  
 \$sql = "INSERT INTO users (name, email, website, comment, gender) VALUES (?, ?, ?, ?, ?)";  
 \$stmt = mysqli\_prepare(\$conn, \$sql);  
  
 if (\$stmt) {  
 mysqli\_stmt\_bind\_param(\$stmt, "sssss", \$name, \$email, \$website, \$comment, \$gender);  
 if (mysqli\_stmt\_execute(\$stmt)) {  
 echo "New record created successfully";  
 } else {  
 echo "Error: " . mysqli\_stmt\_error(\$stmt);  
 }  
 mysqli\_stmt\_close(\$stmt);  
 } else {  
 echo "Error: " . mysqli\_error(\$conn);  
 }  
}

[ Read 53 lines ]  
^G Help ^O Write Out ^F Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-I To Bracket M-B Previous ◀ Back  
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/\_ Go To Line M-E Redo M-6 Copy ^B Where Was M-F Next ▶ Forward

ActivitiesTerminal

Apr 3 19:12

52 %

ec2-user@ip-192-168-11-208:/usr/share/nginx/html

```
[ec2-user@ip-192-168-11-208 html]$ sudo nano form.html
[ec2-user@ip-192-168-11-208 html]$ sudo service nginx reload
Redirecting to /bin/systemctl reload nginx.service
[ec2-user@ip-192-168-11-208 html]$ sudo nano submit.php
[ec2-user@ip-192-168-11-208 html]$ sudo service nginx reload
Redirecting to /bin/systemctl reload nginx.service
[ec2-user@ip-192-168-11-208 html]$ sudo yum install php-mysqldb -y
Last metadata expiration check: 0:23:25 ago on Thu Apr 3 13:18:52 2025.
Dependencies resolved.

=====
Package                                Architecture      Version            Repository          Size
=====
Installing:
php8.4-mysqldb                        x86_64            8.4.5-1.amzn2023.0.1  amazonlinux        157 k

Transaction Summary
=====
Install 1 Package

Total download size: 157 k
Installed size: 438 k
Downloading Packages:
php8.4-mysqldb-8.4.5-1.amzn2023.0.1.x86_64.rpm                                1.3 MB/s | 157 kB    00:00
-----
Total                                                                    1.0 MB/s | 157 kB    00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :
  Installing     : php8.4-mysqldb-8.4.5-1.amzn2023.0.1.x86_64                1/1
  Running scriptlet: php8.4-mysqldb-8.4.5-1.amzn2023.0.1.x86_64                1/1
  Verifying      : php8.4-mysqldb-8.4.5-1.amzn2023.0.1.x86_64                1/1

Installed:
  php8.4-mysqldb-8.4.5-1.amzn2023.0.1.x86_64

Complete!
[ec2-user@ip-192-168-11-208 html]$
```

```
# Amazon Linux 2023
```

<https://aws.amazon.com/linux/amazon-linux-2023>

Dependencies resolved.

```
61 MB/s | 35 MB 00:00
147 kB/s | 15 kB 00:00
```

| Package                                   | Architecture | Version                    | Repository  | Size  |
|---|--------------|----------------------------|-------------|-------|
| Installing:                               |              |                            |             |       |
| <b>mariadb105-server</b>                  | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 11 M  |
| Installing dependencies:                  |              |                            |             |       |
| <b>mariadb-connector-c</b>                | x86_64       | 3.3.10-1.amzn2023.0.1      | amazonlinux | 211 k |
| <b>mariadb-connector-c-config</b>         | noarch       | 3.3.10-1.amzn2023.0.1      | amazonlinux | 9.9 k |
| <b>mariadb105</b>                         | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 1.6 M |
| <b>mariadb105-common</b>                  | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 29 k  |
| <b>mariadb105-errmsg</b>                  | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 213 k |
| <b>mysql-selinux</b>                      | noarch       | 1.0.4-2.amzn2023.0.3       | amazonlinux | 36 k  |
| <b>perl-B</b>                             | x86_64       | 1.80-477.amzn2023.0.6      | amazonlinux | 179 k |
| <b>perl-DBD-MariaDB</b>                   | x86_64       | 1.22-1.amzn2023.0.4        | amazonlinux | 153 k |
| <b>perl-DBI</b>                           | x86_64       | 1.643-7.amzn2023.0.3       | amazonlinux | 700 k |
| <b>perl-Data-Dumper</b>                   | x86_64       | 2.174-460.amzn2023.0.2     | amazonlinux | 55 k  |
| <b>perl-File-Copy</b>                     | noarch       | 2.34-477.amzn2023.0.6      | amazonlinux | 20 k  |
| <b>perl-FileHandle</b>                    | noarch       | 2.03-477.amzn2023.0.6      | amazonlinux | 16 k  |
| <b>perl-Math-BigInt</b>                   | noarch       | 1:1.9998.39-2.amzn2023.0.2 | amazonlinux | 202 k |
| <b>perl-Math-BigRat</b>                   | noarch       | 0.2614-458.amzn2023.0.2    | amazonlinux | 39 k  |
| <b>perl-Math-Complex</b>                  | noarch       | 1.59-477.amzn2023.0.6      | amazonlinux | 47 k  |
| <b>perl-Sys-Hostname</b>                  | x86_64       | 1.23-477.amzn2023.0.6      | amazonlinux | 18 k  |
| <b>perl-base</b>                          | noarch       | 2.27-477.amzn2023.0.6      | amazonlinux | 17 k  |
| Installing weak dependencies:             |              |                            |             |       |
| <b>mariadb105-backup</b>                  | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 6.3 M |
| <b>mariadb105-cracklib-password-check</b> | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 15 k  |
| <b>mariadb105-gssapi-server</b>           | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 17 k  |
| <b>mariadb105-server-utils</b>            | x86_64       | 3:10.5.25-1.amzn2023.0.1   | amazonlinux | 216 k |

## Transaction Summary

```
Install 22 Packages
```

### 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 <a href="#">Info</a> | Protocol <a href="#">Info</a> | Port range <a href="#">Info</a> | Source <a href="#">Info</a> | Description - optional <a href="#">Info</a>   |                               |
|------------------------|---------------------------|-------------------------------|---------------------------------|-----------------------------|---|-------------------------------|
| sg-r01a5162600a7704ad  | SSH                       | TCP                           | 22                              | Custom                      | <div><div>Q</div><div>0.0.0.0/0</div><div>X</div></div>   | <div></div> <div>Delete</div> |
| sg-r0a665e3d8b5798cf3  | HTTP                      | TCP                           | 80                              | Custom                      | <div><div>Q</div><div>0.0.0.0/0</div><div>X</div></div>   | <div></div> <div>Delete</div> |
| -                      | Custom TCP                | TCP                           | 3306                            | Custom                      | <div><div>Q</div><div>sg-0dd85d15a890d151b</div><div>X</div></div> <div>sg-0dd85d15a890d151b</div> <div>X</div> | <div></div> <div>Delete</div> |

Add rule

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

X

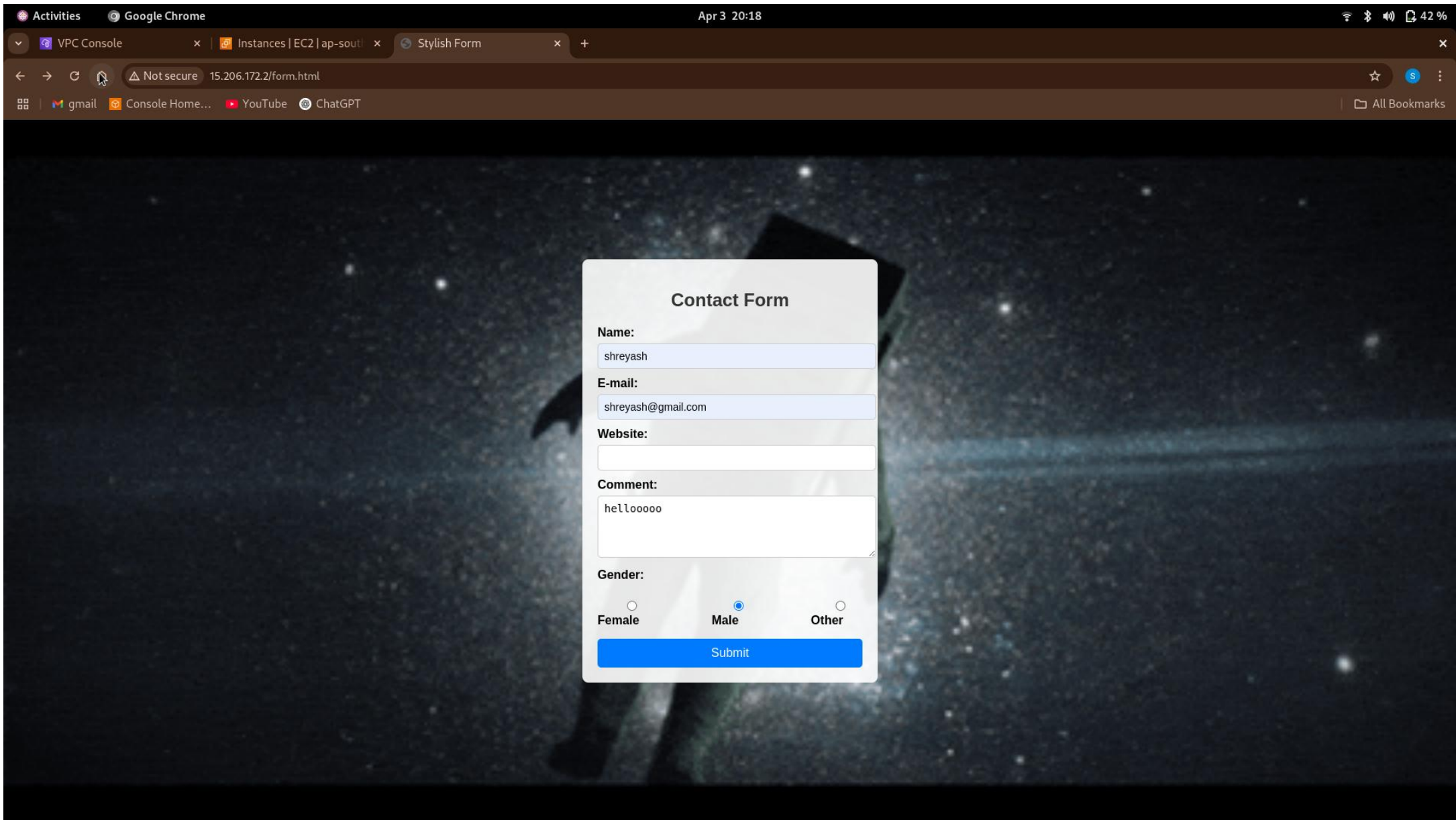
Cancel

Preview changes

Save rules

```
Activities Terminal Apr 3 20:01 ec2-user@ip-192-168-16-38:~  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
MariaDB [(none)]> create user 'shreyash'@'192.168.11.208' identified by 'Pass@123';  
Query OK, 0 rows affected (0.002 sec)  
  
MariaDB [(none)]> ^C  
;  
;  
ERROR: No query specified  
  
MariaDB [(none)]> alter user 'root'@'localhost' identified by 'Pass@123';  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'by 'Pass@123'' at line 1  
MariaDB [(none)]> alter user 'root'@'localhost' identified by 'Pass@123';  
  > ;  
  > ^C  
;  
;  
;  
  > ;  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'Pass@123';  
;  
;' at line 1  
MariaDB [(none)]> alter user 'root'@'localhost' identified by 'Pass@123';  
Query OK, 0 rows affected (0.002 sec)  
  
MariaDB [(none)]> create database mydb;  
Query OK, 1 row affected (0.000 sec)  
  
MariaDB [(none)]> grant all privileges on mydb.* to 'shreyash'@'92.168.11.208';  
ERROR 1133 (28000): Can't find any matching row in the user table  
MariaDB [(none)]> grant all privileges on mydb.* to 'shreyash'@'92.168.11.208';  
ERROR 1133 (28000): Can't find any matching row in the user table  
MariaDB [(none)]> CREATE USER 'shreyash'@'92.168.11.208' IDENTIFIED BY 'your_password';  
Query OK, 0 rows affected (0.002 sec)  
  
MariaDB [(none)]> grant all privileges on mydb.* to 'shreyash'@'92.168.11.208';  
Query OK, 0 rows affected (0.002 sec)  
  
MariaDB [(none)]> CREATE USER 'shreyash'@'192.168.11.208' IDENTIFIED BY 'Pass@123';  
ERROR 1396 (HY000): Operation CREATE USER failed for 'shreyash'@'192.168.11.208'  
MariaDB [(none)]> grant all privileges on mydb.* to 'shreyash'@'192.168.11.208';  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [(none)]> create table student(id int primary key auto_increment, name varchar(100), email varchar(100), website varchar(100), comment varchar(100), gender varchar(100));  
ERROR 1046 (3D000): No database selected  
MariaDB [(none)]> use mydb;  
Database changed  
MariaDB [mydb]> create table student(id int primary key auto_increment, name varchar(100), email varchar(100), website varchar(100), comment varchar(100), gender varchar(100));  
Query OK, 0 rows affected (0.011 sec)  
  
MariaDB [mydb]> █
```





Activities

Google Chrome

Apr 3 20:19

42 %

VPC Console

Instances | EC2 | ap-sout

15.206.172.2/submit.php

+

←

→

↺

🏠

⚠ Not secure

15.206.172.2/submit.php

☆

🔒

⋮

📦

gmail

Console Home...

YouTube

ChatGPT

All Bookmarks

New record created successfully



```
Activities Terminal Apr 3 20:24 ec2-user@ip-192-168-11-208:~

[ec2-user@ip-192-168-11-208 ~]$ sudo mysql -u shreyash -p -h192.168.16.38
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 7
Server version: 10.5.25-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'database' at line 1
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mydb |
+-----+
2 rows in set (0.001 sec)

MariaDB [(none)]> use mydb;
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
MariaDB [mydb]> select * from student;
+-----+-----+-----+-----+-----+-----+
| id | name | email | website | comment | gender |
+-----+-----+-----+-----+-----+-----+
| 1 | shreyash | shreyash@gmail.com | | hellooooo | male |
| 2 | shreyash | shreyash@gmail.com | | hellooooo | male |
| 3 | rohit | shreyash@gmail.com | | hellooooo | male |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [mydb]> 
```