

Create a new Linux Instance with 200GB boot volume using terraform and deploy PostgreSQL latest version using terraform in the same code and make sure to deploy EC2 instance in private subnet only using AWS console .

Make sure to validate the boot volume is 200GB. You can use above VPC only no need to create a new VPC.

The screenshot displays the AWS Management Console interface for EC2 instances. The top navigation bar shows the user is logged in as 'shivani' in the 'N. Virginia' region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and various instance types like Spot Requests, Savings Plans, and Reserved Instances. The main content area shows a list of instances under the heading 'Instances (1/2)'. Two instances are listed:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Public_subnet...	i-03f7debbff96c5f0f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-85-231-20
Private_subne...	i-06e1cfe1357734423	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-233-238-5

Below the list, the details for the instance 'i-06e1cfe1357734423 (Private\_subnet\_EC2)' are shown. The 'Instance summary' tab is active, displaying the following information:

- Instance ID: i-06e1cfe1357734423 (Private\_subnet\_EC2)
- Public IPv4 address: 3.233.238.58 | [open address](#)
- Private IPv4 addresses: 172.16.2.206
- Instance state: Running
- Public IPv4 DNS: ec2-3-233-238-58.compute-1.amazonaws.com | [open address](#)
- Private IP DNS name (IPv4 only):
- Answer private resource DNS name:

The bottom of the screenshot shows the Windows taskbar with the time 20:42 on 24-02-2022.

How To Instal x Instances | EC x AWS Create x Launch Meel x Automate the x centos - The x linux - EC2 in x Could not re x Error with ter x +

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:v=3

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N. Virginia shivani

New EC2 Experience Tell us what you think

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EC2 Global View  
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Tags  
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Instances  
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Elastic Block Store

Instances (1/2) Info

Search

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Instance: i-06e1cfe1357734423 (Private\_subnet\_EC2)

Root device name  
/dev/xvda

Root device type  
EBS

EBS optimization  
disabled

Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-08e66a30702814829	/dev/xvda	200	Attached	Thu Feb 24 2022 20:34:10 ...	No	-

Recent root volume replacement tasks

Replace root volume

Feedback English (US)

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ec2-user@ip-172-16-2-206~

login as: ec2-user

Authenticating with public key "imported-openssh-key"

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Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
8 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-16-2-206 ~]$ sudo vi key.pem
[ec2-user@ip-172-16-2-206 ~]$ sudo chmod 400 key.pem
[ec2-user@ip-172-16-2-206 ~]$ sudo ssh -i key.pem ec2-user@172.16.2.206
The authenticity of host '172.16.2.206 (172.16.2.206)' can't be established.
ECDSA key fingerprint is SHA256:F5012acP*2Qg27pJlDjYEM4CH2yduMr62w8+ve+LdsU.
ECDSA key fingerprint is MD5:a8:66:73:b0:5f:61:66:d1:b8:30:2b:3e:f5:9d:f1:9d.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.16.2.206' (ECDSA) to the list of known hosts.

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Amazon Linux 2 AMI

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8 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-16-2-206 ~]$ sudo systemctl enable postgresql
[ec2-user@ip-172-16-2-206 ~]$ sudo systemctl start postgresql
[ec2-user@ip-172-16-2-206 ~]$ sudo systemctl status postgresql
● postgresql.service - PostgreSQL database server
   Loaded: loaded (/usr/lib/systemd/system/postgresql.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2022-02-24 15:07:00 UTC; 3min 46s ago
     Main PID: 3417 (postmaster)
    CGroup: /system.slice/postgresql.service
            └─3417 /usr/bin/postmaster -D /var/lib/pgsql/data
               └─3420 postgres: logger
                  └─3422 postgres: checkpoint
                     └─3423 postgres: background writer
                        └─3424 postgres: walwriter
                           └─3425 postgres: autovacuum launcher
                              └─3426 postgres: stats collector
                                 └─3427 postgres: logical replication launcher

Feb 24 15:07:00 ip-172-16-2-206.ec2.internal systemd[1]: Starting PostgreSQL database server...
Feb 24 15:07:00 ip-172-16-2-206.ec2.internal postmaster[3417]: 2022-02-24 15:07:00.594 UTC [3417] LOG: listening on IPv4 address "0.0.0.0", port 5432
Feb 24 15:07:00 ip-172-16-2-206.ec2.internal postmaster[3417]: 2022-02-24 15:07:00.594 UTC [3417] LOG: listening on IPv6 address ":::", port 5432
Feb 24 15:07:00 ip-172-16-2-206.ec2.internal postmaster[3417]: 2022-02-24 15:07:00.596 UTC [3417] LOG: listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
Feb 24 15:07:00 ip-172-16-2-206.ec2.internal postmaster[3417]: 2022-02-24 15:07:00.599 UTC [3417] LOG: listening on Unix socket "/tmp/.s.PGSQL.5432"
Feb 24 15:07:00 ip-172-16-2-206.ec2.internal postmaster[3417]: 2022-02-24 15:07:00.610 UTC [3417] LOG: redirecting log output to logging collector process.
Feb 24 15:07:00 ip-172-16-2-206.ec2.internal postmaster[3417]: 2022-02-24 15:07:00.610 UTC [3417] HINT: Future log output will appear in directory "log".
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Type here to search

2041 24-02-2022

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AWS Linux AMI
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[ec2-user@ip-172-16-2-206 ~]$ sudo su - postgres
-bash-4.2$ psql
psql (11.12)
Type "help" for help.

postgres=# \l
               List of databases
+----+-----+-----+-----+-----+
| Name | Owner | Encoding | Collate | CType   | Access privileges |
+----+-----+-----+-----+-----+
| postgres | postgres | UTF8      | en_US.UTF-8 | en_US.UTF-8 | =c/postgres+       |
| template0 | postgres | UTF8      | en_US.UTF-8 | en_US.UTF-8 | =c/postgres+Ctc/postgres+ |
| template1 | postgres | UTF8      | en_US.UTF-8 | en_US.UTF-8 | =c/postgres+Ctc/postgres+ |
+----+-----+-----+-----+-----+
(3 rows)

postgres=#

```