

LINUX MODULE

SUBMITTED BY- ADESH ARUN ADHAV

SUBMITTED TO – VIKUL SIR

DATE -2/12/2024

BATCH NO. -SA2409031

L5 – CREATE TWO EC2 UBUNTU INSTANCE TO ESTABLISH SSH CONNECTION AND SCP THE FILES FROM ONE INSTANCE TO ANOTHER

STEP 1- LAUNCH TWO EC2 INSTANCE

(KEEP SAME KEY PAIR FOR TWO INSTANCE)

STEP2- CONNECT TWO THE FIRST INSTANCE

- CONNECT THE INSTANCE
- CREATE THE SAME FILE NAME AS THAT OF KEY PAIR
 - COPY KEY PAIR TO THE CREATED FILE
- CHANGE THE MOOD OF FILE TO READ WRITE AND EXECUTE
(`chmod 700 aaa.pem`)

STEP 3- MAKE SSH CONNECTION

- COPY THE SSH CONNECTION LINK FROM SECOND INSTANCE
 - PASTE THE LINK IN FIRST INSTANCE
- (`ssh -i "aaa.pem" ubuntu@ec2-65-0-20-120.ap-south-1.compute.amazonaws.com`)

STEP 4- TRANSFER THE FILE TROUGH SCP

(`scp -i aaa.pem file1 ubuntu@65.0.20.120:/home/ubuntu`)

Check the file

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EC2

EC2 > Instances > Launch an instance

Success

Successfully initiated launch of instances (i-0531db37321b8987d, i-02208bec19f75d895)

Launch log

Next Steps

What would you like to do next with these instances, 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.

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

Learn more

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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Usage of /: 22.9% of 6.71GB Users logged in: 0
Memory usage: 22% IPv4 address for enx0: 172.31.2.123
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
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-172-31-2-123:~\$

i-02208bec19f75d895 (LINUX)
PublicIPs: 13.201.75.235 PrivateIPs: 172.31.2.123

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EC2

Usage of /: 22.9% of 6.71GB Users logged in: 0
Memory usage: 22% IPv4 address for enx0: 172.31.4.57
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
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-172-31-4-57:~\$

i-0531db37321b8987d (LINUX1)
PublicIPs: 65.0.20.120 PrivateIPs: 172.31.4.57

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EC2 > Instances > i-0531db37321b8987d > Connect to instance

Connect to instance info

Connect to your instance i-0531db37321b8987d (LINUX1) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-0531db37321b8987d (LINUX1)

1. Open an SSH client.

2. Locate your private key file. The key used to launch this instance is aaa.pem

3. Run this command, if necessary, to ensure your key is not publicly viewable.

chmod 400 "aaa.pem"

4. Connect to your instance using its Public DNS:

ec2-65-0-20-120.ap-south-1.compute.amazonaws.com

Command copied

ssh -i "aaa.pem" ubuntu@ec2-65-0-20-120.ap-south-1.compute.amazonaws.com

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

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```
welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

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

System information as of Mon Dec  2 16:32:32 UTC 2024

System load:  0.0           Processes:            111
Usage of /:   23.1% of 6.71GB Users logged in:        1
Memory usage: 21%          IPv4 address for enX0: 172.31.4.57
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

last login: Mon Dec  2 16:27:53 2024 from 13.233.177.4
ubuntu@ip-172-31-4-57:~$
```

i-02208bec19f75d895 (LINUX)

PublicIPs: 13.201.75.235 PrivateIPs: 172.31.2.123

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ee https://ubuntu.com/esm or run: sudo pro status

he list of available updates is more than a week old.
o check for new updates run: sudo apt update

ast login: Mon Dec 2 16:27:53 2024 from 13.233.177.4
buntu@ip-172-31-4-57:~\$ ls
buntu@ip-172-31-4-57:~\$ sudo su
oot@ip-172-31-4-57:/home/ubuntu# ls
oot@ip-172-31-4-57:/home/ubuntu# ls
oot@ip-172-31-4-57:/home/ubuntu# touch file1
oot@ip-172-31-4-57:/home/ubuntu# ls
file1
oot@ip-172-31-4-57:/home/ubuntu# scp -i aaa.pem file1 ubuntu@65.0.20.120:/home/ubuntu
arning: Identity file aaa.pem not accessible: No such file or directory.
he authenticity of host '65.0.20.120 (65.0.20.120)' can't be established.
D25519 key fingerprint is SHA256:8jURMcUyqKH5K3yRLoXBmdA+8XSCZzC6yuMkoj15amQ.
his key is not known by any other names.
re you sure you want to continue connecting (yes/no/[fingerprint])? yes
arning: Permanently added '65.0.20.120' (ED25519) to the list of known hosts.
buntu@65.0.20.120: Permission denied (publickey).
cp: Connection closed
oot@ip-172-31-4-57:/home/ubuntu# ls
file1
oot@ip-172-31-4-57:/home/ubuntu#

i-02208bec19f75d895 (LINUX)

PublicIPs: 13.201.75.235 PrivateIPs: 172.31.2.123

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buntu@ip-172-31-4-57:~\$ ls
file1
buntu@ip-172-31-4-57:~\$

i-0531db37321b8987d (LINUX1)

PublicIPs: 65.0.20.120 PrivateIPs: 172.31.4.57

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