

AWS Solutions Architect Certification Training

support@intellipaat.com - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

DevOps-Module5-Ansible-Assignment-1 COMPLETED by Nagesha KS

Please check the following screenshots for each question.

Tasks To Be Performed:

1. Setup Ansible cluster with 3 nodes
2. On slave 1 install Java
3. On slave 2 install MySQL server

Do the above tasks using Ansible Playbooks

Instances | EC2 | us-east-2

nagesha1995's Profile | Docker

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:sort=tag:Name

aws

Services

Search

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Ohio

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EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations

New

Images

AMIs

AMI Catalog

Elastic Block Store

Instances (1/3) Info

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

Running

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input checked="" type="checkbox"/>	Nagesha-ansible-master	i-0915746ee1434b64c	Running	t2.micro	2/2 checks passed	View alarms
<input type="checkbox"/>	Nagesha-ansible-slave-1	i-003f806a982b49d6f	Running	t2.micro	Initializing	View alarms
<input type="checkbox"/>	Nagesha-ansible-slave-2	i-085fcb70f3520493a	Running	t2.micro	Initializing	View alarms

i-0915746ee1434b64c (Nagesha-ansible-master)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary Info

Instance ID

i-0915746ee1434b64c (Nagesha-ansible-master)

Public IPv4 address

3.17.28.224 | open address

Private IPv4 addresses

172.31.42.213

IPv6 address

-

Instance state

Running

Public IPv4 DNS

ec2-3-17-28-224.us-east-2.compute.amazonaws.com

CloudShell

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04-09-2024

Instances | EC2 | us-east-2

nagesha1995's Profile | Docker

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:sort=tag:Name

aws

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EC2 Dashboard

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AMIs

AMI Catalog

Elastic Block Store

Instances (1/3)

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

Running

1

Find Instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	Nagesha-ansible-master	i-0915746ee1434b64c	Running	t2.micro	2/2 checks passed	View alarms
<input checked="" type="checkbox"/>	Nagesha-ansible-slave-1	i-003f806a982b49d6f	Running	t2.micro	Initializing	View alarms
<input type="checkbox"/>	Nagesha-ansible-slave-2	i-085fcb70f3520493a	Running	t2.micro	Initializing	View alarms

i-003f806a982b49d6f (Nagesha-ansible-slave-1)

DetailsStatus and alarmsMonitoringSecurityNetworkingStorageTags

Instance summary

Instance ID

i-003f806a982b49d6f (Nagesha-ansible-slave-1)

Public IPv4 address

3.19.142.188 | open address

Private IPv4 addresses

172.31.32.173

IPv6 address

Instance state

Running

Public IPv4 DNS

ec2-3-19-142-188.us-east-2.compute.amazonaws.com

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Instances | EC2 | us-east-2

nagesha1995's Profile | Docker

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:sort=tag:Name

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EC2 Dashboard

EC2 Global View

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Instances

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Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations

New

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AMIs

AMI Catalog

Elastic Block Store

Instances (1/3) info

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

Running

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	Nagesha-ansible-master	i-0915746ee1434b64c	Running	t2.micro	2/2 checks passed	View alarms
<input type="checkbox"/>	Nagesha-ansible-slave-1	i-003f806a982b49d6f	Running	t2.micro	Initializing	View alarms
<input checked="" type="checkbox"/>	Nagesha-ansible-slave-2	i-085fcb70f3520493a	Running	t2.micro	Initializing	View alarms

i-085fcb70f3520493a (Nagesha-ansible-slave-2)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary info

Instance ID

i-085fcb70f3520493a (Nagesha-ansible-slave-2)

Public IPv4 address

18.225.5.71 | open address

Private IPv4 addresses

172.31.38.216

IPv6 address

-

Instance state

Running

Public IPv4 DNS

ec2-18-225-5-71.us-east-2.compute.amazonaws.com

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Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

nagesha1995's Profile | Docker

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0915746ee1434b64c&osUser=ubuntu®ion=us-east-2...

Relaunch to update

aws

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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-172-31-42-213:~\$

i-0915746ee1434b64c (Nagesha-ansible-master)

PublicIPs: 3.17.28.224 PrivateIPs: 172.31.42.213

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Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-

nagesha1995's Profile | Docker

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us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0915746ee1434b64c&osUser=ubuntu®ion=us-east-2...

Relaunch to update

aws

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Get:25 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.1 kB]
Get:26 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:27 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:28 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.8 kB]
Get:29 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:30 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Get:31 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [291 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [13.3 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [2327 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [400 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [584 B]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [899 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [175 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [19.2 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.2 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7588 B]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [228 B]
Fetched 33.4 MB in 5s (7179 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
51 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-42-213:~\$

i-0915746ee1434b64c (Nagesha-ansible-master)

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04-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

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us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0915746ee1434b64c&osUser=ubuntu®ion=us-east-2...

Relaunch to update

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Description:

Ansible is a radically simple IT automation platform that makes your applications and systems easier to deploy. Avoid writing scripts or custom code to deploy and update your applications— automate in a language that approaches plain English, using SSH, with no agents to install on remote systems.

http://ansible.com/

If you face any issues while installing Ansible PPA, file an issue here:
<https://github.com/ansible-community/ppa/issues>
More info: <https://launchpad.net/~ansible/+archive/ubuntu/ansible>
Adding repository.
Adding deb entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
Adding key to /etc/apt/trusted.gpg.d/ansible-ubuntu-ansible.gpg with fingerprint 6125E2A8C77F2818FB7BD15B93C4A3FD7BB9C367
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:5 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy InRelease [18.0 kB]
Get:6 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main amd64 Packages [1116 B]
Get:7 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main Translation-en [752 B]
Fetched 19.9 kB in 1s (17.9 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-42-213:~\$

i-0915746ee1434b64c (Nagesha-ansible-master)

PublicIPs: 3.17.28.224 PrivateIPs: 172.31.42.213

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Windows Taskbar

System Tray

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

nagesha1995's Profile | Docker

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0915746ee1434b64c&osUser=ubuntu®ion=us-east-2...

Relaunch to update

aws

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ansible-core python3-jmespath python3-kerberos python3-nacl python3-ntlm-auth python3-packaging python3-paramiko python3-requests-kerberos python3-requests-ntlm python3-resolvlib python3-winrm python3-xlrd python3-xmldict sshpass

Suggested packages:

python-nacl-doc python3-gssapi python3-invoke

The following NEW packages will be installed:

ansible ansible-core python3-jmespath python3-kerberos python3-nacl python3-ntlm-auth python3-packaging python3-paramiko python3-requests-kerberos python3-requests-ntlm python3-resolvlib python3-winrm python3-xlrd python3-xmldict sshpass

0 upgraded, 14 newly installed, 0 to remove and 51 not upgraded.

Need to get 18.5 MB of archives.

After this operation, 203 MB of additional disk space will be used.

Do you want to continue? [Y/n] Y

Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 python3-packaging all 21.3-1 [30.7 kB]

Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-resolvlib all 0.8.1-1 [23.6 kB]

Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 python3-jmespath all 0.10.0-1 [21.7 kB]

Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-kerberos amd64 1.1.14-3.1build5 [23.0 kB]

Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 python3-nacl amd64 1.5.0-2 [63.1 kB]

Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-ntlm-auth all 1.4.0-1 [20.4 kB]

Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3-paramiko all 2.9.3-0ubuntu1.2 [134 kB]

Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-requests-kerberos all 0.12.0-2 [11.9 kB]

Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-requests-ntlm all 1.1.0-1.1 [6160 B]

Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-xlrd all 0.12.0-2 [12.6 kB]

Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-winrm all 0.3.0-2 [21.7 kB]

Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 sshpass amd64 1.09-1 [11.7 kB]

19% [Connected to ppa.launchpadcontent.net (185.125.190.80)]

i-0915746ee1434b64c (Nagesha-ansible-master)

PublicIPs: 3.17.28.224 PrivateIPs: 172.31.42.213

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Instances | EC2 | us-east-2 x EC2 Instance Connect | us-east-2 x nagesha1995's Profile | Docker x +

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0915746ee1434b64c&osUser=ubuntu®ion=us-east-2... ☆ N Relaunch to update ⋮

aws Services Search [Alt+S] Ohio Nagesha KS

```
Setting up python3-xlrd (0.12.0-2) ...
Setting up python3-packaging (21.3-1) ...
Setting up python3-jmespath (0.10.0-1) ...
Setting up python3-requests-karberos (0.12.0-2) ...
Setting up python3-nacl (1.5.0-2) ...
Setting up python3-requests-ntlm (1.1.0-1.1) ...
Setting up ansible-core (2.16.10-1ppa~jammy) ...
Setting up python3-winrm (0.3.0-2) ...
Setting up ansible (9.9.0-1ppa~jammy) ...
Setting up python3-paramiko (2.9.3-0ubuntu1.2) ...
Processing triggers for man-db (2.10.2-1) ...
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-172-31-42-213:~$
```

i-0915746ee1434b64c (Nagesha-ansible-master)

PublicIPs: 3.17.28.224 PrivateIPs: 172.31.42.213

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22:17
04-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-e

EC2 Instance Connect | us-e

EC2 Instance Connect | us-e

Installing Ansible on specific

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0b38aab77a9b30eae&osUser=ubuntu&sshPort=2...

aws

Services

Search

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Ohio

Nagesha%20K5

Description:

Ansible is a radically simple IT automation platform that makes your applications and systems easier to deploy. Avoid writing scripts or custom code to deploy and update your applications— automate in a language that approaches plain English, using SSH, with no agents to install on remote systems.

http://ansible.com/

If you face any issues while installing Ansible PPA, file an issue here:
<https://github.com/ansible-community/ppa/issues>
More info: <https://launchpad.net/~ansible/+archive/ubuntu/ansible>
Adding repository.
Adding deb entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
Adding key to /etc/apt/trusted.gpg.d/ansible-ubuntu-ansible.gpg with fingerprint 6125E2A8C77F2818FB7BD15B93C4A3FD7BB9C367
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:5 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy InRelease [18.0 kB]
Get:6 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main amd64 Packages [1116 B]
Get:7 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main Translation-en [752 B]
Fetched 19.9 kB in 1s (18.7 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-45-87:~\$

i-0b38aab77a9b30eae (Nagesha-ansible-master)

PublicIPs: 3.18.221.201 PrivateIPs: 172.31.45.87

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Windows taskbar icons: File Explorer, Edge, Word, etc.

System tray: 14:34, 05-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

Installing Ansible on specific instance

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0b38aab77a9b30eae&osUser=ubuntu&sshPort=22

aws

Services

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[Alt+S]

Ohio

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Setting up ansible-core (2.16.10-lppa-jammy) ...
Setting up python3-winrm (0.3.0-2) ...
Setting up ansible (9.9.0-lppa-jammy) ...
Setting up python3-paramiko (2.9.3-0ubuntu1.2) ...
Processing triggers for man-db (2.10.2-1) ...
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-172-31-45-87:~\$ sudo apt install ansible
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ansible is already the newest version (9.9.0-lppa-jammy).
0 upgraded, 0 newly installed, 0 to remove and 56 not upgraded.
ubuntu@ip-172-31-45-87:~\$

i-0b38aab77a9b30eae (Nagesha-ansible-master)

PublicIPs: 3.18.221.201 PrivateIPs: 172.31.45.87

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05-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

Installing Ansible on specific...

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0b38aab77a9b30eae&osUser=ubuntu&sshPort=22

aws

Services

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[Alt+S]

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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-172-31-45-87:~\$ sudo apt install ansible

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

ansible is already the newest version (9.9.0-1ppa~jammy).

0 upgraded, 0 newly installed, 0 to remove and 56 not upgraded.

ubuntu@ip-172-31-45-87:~\$ cd ~/.ssh/

-bash: cd: ~/.ssh/: No such file or directory

ubuntu@ip-172-31-45-87:~\$ cd ~/.ssh/

ubuntu@ip-172-31-45-87:~/.ssh\$ ls

authorized_keys id_rsa id_rsa.pub

ubuntu@ip-172-31-45-87:~/.ssh\$

i-0b38aab77a9b30eae (Nagesha-ansible-master)

PublicIPs: 3.18.221.201 PrivateIPs: 172.31.45.87

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05-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-e

EC2 Instance Connect | us-e

EC2 Instance Connect | us-e

Installing Ansible on specific

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0b38aab77a9b30eae&osUser=ubuntu&sshPort=2...

aws

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Ohio

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Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:e7Ljm3ElxAYeMKiwwkF2PLoNPBgEV/Coe17iRK/X0h4 ubuntu@ip-172-31-45-87
The key's randomart image is:
+---[RSA 3072]-----+
|o+...ooo.
|o+... ..o
|++o.*+
|+*.o . o
|. * + o 8 . .
|. * + o . o
| + o E o
| . o.O
| . * o
+-----[SHA256]-----+
ubuntu@ip-172-31-45-87:~/.ssh\$ ls
authorized_keys id_rsa id_rsa.pub
ubuntu@ip-172-31-45-87:~/.ssh\$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCraYH1sO/IFapx29nA0gCTOK+qeJ8Hm+MF+7KdDT7A32dMGOMPamODn49d69KHdBH1m9LFjdiFiUWI8zC/54iT5HR9PKkX+f42Z6+65ZR7Z
3Y8cSvGjE9ZYBvz8yEBvbq75+PXfKZ3lwaJqVojvJOD9eu2r3GCGotnAQD+KBfLWto/3dNRL0H9FrcBdIg8wYdQOHpxTcOMs+ekiSRohE4N8cJYcIBck0piqD7NhqAcHM5nKljHThEmthbOe
0P23Hjoh7PHncI/ui7LinZQ/JC9x039t8oTsc+kEWr6Po0/LF2EkOTcHLfkQmCGPKOTgudg8rftMHefI+zHPao+bjWbGptJJYYW9ouQYfU4clCIOvp0qXJ9FKrs6zT7VmjevEi+KDeN+3wC6G
CNJGYDP4y3ivvdFrs5/lnKb8zr4hkm8nvnPCYnuk89I25CU/KmG1MqH+9264ZE5Dg6dq65vV9SAAmo2cUiF0wJI3PX/dzftaJf+ypOUnEqvCKaW6P9vU= ubuntu@ip-172-31-45-87
ubuntu@ip-172-31-45-87:~/.ssh\$

i-0b38aab77a9b30eae (Nagesha-ansible-master)

PublicIPs: 3.18.221.201 PrivateIPs: 172.31.45.87

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05-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-e

EC2 Instance Connect | us-e

EC2 Instance Connect | us-e

Installing Ansible on specific

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0852781de69f1dd0c&osUser=ubuntu&sshPort=2...

aws

Services

Search

[Alt+S]

Ohio

Nagesha%20K5

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-172-31-36-85:~$ cd .ssh/
ubuntu@ip-172-31-36-85:~/.ssh$ ls -l
total 4
-rw----- 1 ubuntu ubuntu 397 Sep  5 04:01 authorized_keys
ubuntu@ip-172-31-36-85:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-36-85:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-36-85:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-36-85:~/.ssh$
```

i-0852781de69f1dd0c (Nagesha-ansible-slave-1)

PublicIPs: 3.144.129.209 PrivateIPs: 172.31.36.85

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05-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

Installing Ansible on specific...

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-04e722bef9861c6e9&osUser=ubuntu&sshPort=22... Error

aws Services Search [Alt+S]

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-172-31-34-134:~\$ cd .sh/
-bash: cd: .sh/: No such file or directory
ubuntu@ip-172-31-34-134:~\$ cd .ssh/
ubuntu@ip-172-31-34-134:~/.ssh\$ ls -l
total 4
-rw----- 1 ubuntu ubuntu 397 Sep 5 04:02 authorized_keys
ubuntu@ip-172-31-34-134:~/.ssh\$ sudo nano authorized_keys
ubuntu@ip-172-31-34-134:~/.ssh\$

i-04e722bef9861c6e9 (Nagesha-ansible-slave-2)

PublicIPs: 18.216.94.129 PrivateIPs: 172.31.34.134

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15:04
05-09-2024

Instances | EC2 | us-east-2 | EC2 Instance Connect | EC2 Instance Connect | EC2 Instance Connect | Installing Ansible on | in aws, authorized_key | Error

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0b38aab77a9b30eae&osUser=ubuntu&sshPort=22

aws Services Search [Alt+S] Ohio Nagesha%20KS

```
ubuntu@ip-172-31-45-87:~/.ssh$ ssh ubuntu@3.144.129.209
The authenticity of host '3.144.129.209 (3.144.129.209)' can't be established.
ED25519 key fingerprint is SHA256:YaKrMWx4dFhBw1NNK1twCAROFx6RMftyiCi09FK7adI.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.144.129.209' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1022-aws x86_64)

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

System information as of Thu Sep  5 09:49:04 UTC 2024

System load:  0.0          Processes:            99
Usage of /:   22.3% of 7.57GB   Users logged in:     1
Memory usage: 22%          IPv4 address for eth0: 172.31.36.85
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.
```

i-0b38aab77a9b30eae (Nagesha-ansible-master)
PublicIPs: 3.18.221.201 PrivateIPs: 172.31.45.87

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15:21
05-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect

EC2 Instance Connect

EC2 Instance Connect

Installing Ansible on

in aws, authorized_key

Error

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0b38aab77a9b30eae&osUser=ubuntu&sshPort=22

aws

Services

Search

[Alt+S]

Ohio

Nagesha%20KS

System load: 0.0

Processes: 99

Usage of /: 22.3% of 7.57GB

Users logged in: 1

Memory usage: 22%

IPv4 address for eth0: 172.31.36.85

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: Thu Sep 5 08:44:26 2024 from 3.16.146.5

ubuntu@ip-172-31-36-85:~\$ ls -l

total 0

ubuntu@ip-172-31-36-85:~\$ exit

logout

Connection to 3.144.129.209 closed.

ubuntu@ip-172-31-45-87:~/.ssh\$

i-0b38aab77a9b30eae (Nagesha-ansible-master)

PublicIPs: 3.18.221.201 PrivateIPs: 172.31.45.87

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Windows taskbar icons: File Explorer, Edge, Firefox, VS Code, etc.

System tray: 15:22, 05-09-2024

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

EC2 Instance Connect | us-east-2

Installing Ansible on specific...

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0b38aab77a9b30eae&osUser=ubuntu&sshPort=22

aws

Services

Search

[Alt+S]

Ohio

Nagesha%20K5

```
ubuntu@ip-172-31-45-87:~$ sudo nano /etc/ansible/hosts
ubuntu@ip-172-31-45-87:~$ cat /etc/ansible/hosts
(Slave1)
172.31.36.85
(Slave2)
172.31.34.134
ubuntu@ip-172-31-45-87:~$
```

i-0b38aab77a9b30eae (Nagesha-ansible-master)

PublicIPs: 3.18.221.201 PrivateIPs: 172.31.45.87

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Windows Taskbar

System Tray

Instances | EC2 | us-east-2

EC2 Instance Connect | us-east-2

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-08c60b2325e38641a&osUser=ubuntu®ion=us-east-2&sshPort=22

Search [Alt+S]

Ohio Nagesha KS

```
ubuntu@ip-172-31-38-147:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-38-147:~$ ls -l
total 0
ubuntu@ip-172-31-38-147:~$ sudo python3 --version
Python 3.10.12
ubuntu@ip-172-31-38-147:~$ sudo apt update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1988 kB]
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [349 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [17.8 kB]
Get:14 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [2386 kB]
Get:15 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [410 kB]
Get:16 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [616 B]
Get:17 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1123 kB]
```

i-08c60b2325e38641a (Nagesha-Ansible-Master)

PublicIPs: 18.116.202.248 PrivateIPs: 172.31.38.147

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19:27
05-09-2024

Ansible Commands

launch 3 EC2 instances and name them as follows:

Nagesha-Ansible-Master

Nagesha-Ansible-Slave-1

Nagesha-Ansible-Slave-2

SSH connection

create playbook

play1.yaml in the master (control machine)

java and mysql are provided in play1.yaml

java in slave-1

mysql in slave2

Python is pre-requisite for Ansible

Java is pre-requisite for Jenkins

python3 --version ## check python version

sudo python3 --version

sudo apt update

sudo apt install software-properties-common

sudo add-apt-repository --yes --update ppa:ansible/ansible

sudo apt install ansible

cd .ssh/

ls

ssh-keygen

ls

```
sudo cat id_rsa
```

so, now we know that id_rsa is a private key and id_rsa.pub is public key

```
cat id_rsa.pub
```

go to Nagesha-ansible-slave-1 EC2 server

```
cd .ssh/
```

```
ls
```

we get authorized_keys file

```
sudo nano authorized_keys
```

the trainer was adding the commands to codeshare.io so that the learners can download in their local machines but within 24 hours only

go to Nagesha-ansible-slave-2 EC2 server

```
cd .ssh/
```

```
ls
```

we get authorized_keys file

```
sudo nano authorized_keys
```

the trainer was adding the commands to codeshare.io so that the learners can download in their local machines but within 24 hours only

do not delete or overwrite the above authorized_keys. just paste copy here. Let public and private be in this file

copy slave-1 ec2 server public ip and

go to master ec2 server

```
ssh ubuntu@3.144.129.209 ## public ip of slave-1
```

connection is successfully established

now you are in master ec2 server

```
cd
```

```
pwd
```

```
cd /etc/ansible/
```

```
pwd
```

```
ls -l
```

```
copy private IP of both slave-1 and slave-2 to hosts inside master ec2 server
```

```
sudo nano hosts
```

```
172.31.36.85
```

```
172.31.34.134
```

```
ansible -m ping all
```

```
go to master ec2 server
```

```
## to create playbook java in slave-1 and mysql in slave-2
```

```
go to home directory
```

```
cd # this will take you to home directory /home/ubuntu
```

```
now you are in /home/ubuntu
```

```
sudo nano play1.yaml
```

```
---
```

```
==task for Slave1
```

```
hosts:
```

```
go to master ec2 server
```

```
sudo nano /etc/ansible/hosts
```

```
(Slave1)
```

```
172.31.36.85
```

```
(Slave2)
```

```
172.31.34.134
```

```
sudo nano play1.yaml
```

```
---
```

```
== name: Install Java on Slave1
```

```
hosts: Slave1
```

```
become: true
```

```
tasks:
```

- name: Update apt cache
apt:
 update_cache: yes

- name: Install Java
apt:
 name: openjdk-11-jdk
 state: latest

=- name: Install MySQL on Slave2

hosts: Slave2

become: true

tasks:

- name: Update apt cache
apt:
 update_cache: yes

- name: Install MySQL
apt:
 name: mysql-server
 state: latest

ansible-playbook play1.yaml --syntax-check

if no bug then, now do a dry run by running the play1.yaml script

ansible-playbook play1.yaml --check

master ec2 server

sudo apt update

slave-1

sudo apt update


```
# slave-2  
sudo apt update
```

now execute playbook normally in master ec2 server
ansible-playbook play1.yaml