Capstone Project

DevOps Certification Training

Instances (1/3) Info

	Name	Instance ID	Instance state		Instance type	▽	S
☐	ser-Master	i-03df54dafce1aaf38	⊘ Running ⊕ ⊖		t2.micro		
☐	ser-Slave1	i-086cea93384d783f9	⊘ Running ⊕ ⊖		t2.micro		
☑	ser-Slave2	i-0872924ce1f299eee	⊘ Running ⊕ ⊖		t2.micro		

```
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 6125E2A8C77F2818FB7BD15B93C4A3FD7BB9C36
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-1.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 [1120 B]
Get:7 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy/main Translation-en [752 B]
Fetched 19.9 kB in 1s (21.9 kB/s)
Reading package lists... Done
root@ip-172-31-82-114:/home/ubuntu# sudo apt install ansible
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ansible-core python3-jmespath python3-kerberos python3-nacl python3-ntlm-auth python3-paramiko python3-requests-kerber
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-paramiko python3-request
  sshpass
0 upgraded, 13 newly installed, 0 to remove and 31 not upgraded.
Need to get 19.2 MB of archives.
After this operation, 213 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

i-03df54dafce1aaf38 (ser-Master)

PublicIPs: 18.204.215.181   PrivateIPs: 172.31.82.114

```
Enter file in which to save the key (/root/.ssh/id_rsa): Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:tyVqRyj98krTcV03uCWTujqW9hfRIgGfMqkW4rra/NM root@ip-172-31-82-114
The key's randomart image is:
+---[RSA 3072]----+
|        ..        |
|       o.. o      |
|    . . + o.=.oo|
|   . ..o.o..+=oo|
|    ..oS =.+.+    |
|   . . .* *..     |
|    . . * *.  .   |
|   o .. E X.  .   |
|  ..+... +o+..    |
+----[SHA256]-----+
root@ip-172-31-82-114:/home/ubuntu# cat /root/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQC3RYXbqQv2OQCezzYC5uo232RjZaouyRi2aa2UIe8LRvSI+Gfv9z7vUIEeA/gwjTfoCQd4IONF3KiWtqphf/knujmjtMujJA8cdrm4H/CCd+9g4QnThqOJV
pfzUhpiwOHO8PJ3XmO4dQGWOMOv1L3MlLySe1gM8SXmOC53elNgMo80Im4d7P1gAkwiPA94k7h45c1AOtHujp3GPRRTUWsS2Tvls+ygEpbub20BKT2qVRx/ORonkU/n9i76g3k8H1DCgOlNl1TAdkkIBjE32E0
w3112GIIw2lAbDYoWssGNMvsVh00bphz0APHdQdw8BZjx+ZHv/Rn0UsK1cqm3QkPtBYWIgfTc1p1VnPwQsmuK3sg7IeXHLrMto5SjAFyqqWk8nfz//de9EF+RUS3akApXir3k= root@ip-172-31-82-114
root@ip-172-31-82-114:/home/ubuntu#
```

i-03df54dafce1aaf38 (ser-Master)

PublicIPs: 18.204.215.181   PrivateIPs: 172.31.82.114

```
  GNU nano 6.2                                                          authorized_keys *
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQCrdZFdEp21sqewtT7NPQ834Sx5DSIpFhmcj2YqXKI0yl2jM0NOkD7y85Cvy+V8m7kp8RCxiopqt8GVPJF9Ac1OBkXr1e24bfiruPIobblXsZ2ari6qqoee2ErnK7RRMBQUtGXRfPXnuKN
SLQPbyuu1L0d9a0UeAPRGo99tRkDFCU4jm9YU097/vMu/OolfU33BIPX6giZgBUmSiCFN/P1Fyp8nz2INrbhtg4AbaklA4JkyUpvQ9X+CuNdza9w+BmXn9wmtXwGhj6cISxRsIyj5rTwAb9rrXF2E= root@ip-172-31-81-82
```


i-0872924ce1f299eee (ser-Slave2)
PublicIPs: 52.87.237.30   PrivateIPs: 172.31.81.82

```
+----[SHA256]-----+
root@ip-172-31-80-155:/home/ubuntu# cat /root/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDWYF1tnKDCXogpuResQ+UCwy4QPC03L4WjHDsQ63M2//qHx//YYKF15rkwDHFDwyDx3
c5hdc5fy/5KDfBeE66unQkFEhMfpBIQxvJAIjOH4jPBWVHxDCAcmKsGtA7zpcjVT7V4M1fsuqbh6Gz+OA3HLqCUUmBl1rVgRxVKkepPsf
tRxRbkd+4AnyfeZKMUQQJeVcJ2Ym8Lrizrj85Ov61jU+0okMp7uZeF6Viw0V1Fi4kU1zdYWw/V3KpG38KNwi6grNIF2iyD0pQVnXgoHW3
root@ip-172-31-80-155:/home/ubuntu# cd .ssh
root@ip-172-31-80-155:/home/ubuntu/.ssh# ls
authorized_keys
root@ip-172-31-80-155:/home/ubuntu/.ssh# nano authorized_keys
root@ip-172-31-80-155:/home/ubuntu/.ssh#
```

i-086cea93384d783f9 (ser-Slave1)

PublicIPs: 3.94.9.229   PrivateIPs: 172.31.80.155

```
  GNU nano 6.2
[Slave]
172.31.80.155
172.31.81.82


# This is the default ansible 'hosts' file.
#
# It should live in /etc/ansible/hosts
#
#   - Comments begin with the '#' character
#   - Blank lines are ignored
#   - Groups of hosts are delimited by [header] elements
#   - You can enter hostnames or ip addresses
#   - A hostname/ip can be a member of multiple groups

# Ex 1: Ungrouped hosts, specify before any group headers:

## green.example.com
## blue.example.com
## 192.168.100.1
## 192.168.100.10

# Ex 2: A collection of hosts belonging to the 'webservers' group:

## [webservers]
## alpha.example.org
## beta.example.org
## 192.168.1.100
## 192.168.1.110
```

```
ubuntu@ip-172-31-91-243:/etc/ansible$ sudo nano hosts
ubuntu@ip-172-31-91-243:/etc/ansible$ ansible all -m ping
[WARNING]: Platform linux on host 172.31.94.136 is using the discovered Python interpreter at /usr/bin/python3.10, but future inst
See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
172.31.94.136 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.10"
    },
    "changed": false,
    "ping": "pong"
}
[WARNING]: Platform linux on host 172.31.26.98 is using the discovered Python interpreter at /usr/bin/python3.10, but future insta
See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
172.31.26.98 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3.10"
    },
    "changed": false,
    "ping": "pong"
}
ubuntu@ip-172-31-91-243:/etc/ansible$ 
```

i-08927dfe3d367cfe8 (master)

PublicIPs: 3.87.5.140   PrivateIPs: 172.31.91.243

```
  GNU nano 6.2

---
- name: task for master
  hosts: localhost
  become: true
  tasks:
  - name: excuting scrpit on master
  script: master.sh
  -name: task for slave
  hosts: slave
  become: true
  tasks:
  - name: excuting script on slave
  script: slave.sh
```

```
ubuntu@ip-172-31-91-243:~$ ansible-playbook play.yaml --check

PLAY [Task for master] *******************************************************************************
*******************************************************

TASK [Gathering Facts] *******************************************************************************
*******************************************************
ok: [localhost]

TASK [Executing script on master] *******************************************************************************
*******************************************
skipping: [localhost]

PLAY [Task for slave] *******************************************************************************
*******************************************************

TASK [Gathering Facts] *******************************************************************************
*******************************************************
[WARNING]: Platform linux on host 172.31.94.136 is using the discovered Python interpreter at /usr/bin/python3.10, but futu
Python interpreter could change the meaning of that path.
See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.94.136]
[WARNING]: Platform linux on host 172.31.26.98 is using the discovered Python interpreter at /usr/bin/python3.10, but futur
ython interpreter could change the meaning of that path.
See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.26.98]

TASK [Executing script on slave] *******************************************************************************
*******************************************
skipping: [172.31.26.98]
skipping: [172.31.94.136]

PLAY RECAP *******************************************************************************
*******************************************************
172.31.26.98              : ok=1    changed=0    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
172.31.94.136             : ok=1    changed=0    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
localhost                 : ok=1    changed=0    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0

ubuntu@ip-172-31-91-243:~$
```

i-08927dfe3d367cfe8 (master)

PublicIPs: 3.87.5.140   PrivateIPs: 172.31.91.243

```
        "Scanning processes... [==============================           ]",
        "Scanning processes... [===============================          ]",
        "Scanning processes... [================================         ]",
        "Scanning processes... [=================================        ]",
        "Scanning processes... [==================================       ]",
        "Scanning processes... [===================================      ]",
        "Scanning processes... [====================================     ]",
        "Scanning processes... [=====================================    ]",
        "Scanning processes... [======================================   ]",
        "Scanning processes... [=======================================  ]",
        "Scanning processes... [========================================]",
        "Scanning processes...                                           ",
        "Scanning linux images... [                                      ]",
        "Scanning linux images... [=================                     ]",
        "Scanning linux images... [==============================        ]",
        "Scanning linux images... [======================================]",
        "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."
    ]

LAY RECAP ***********************************************************************************************************
****************************************************
72.31.26.98                : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
72.31.94.136               : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
ocalhost                   : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

buntu@ip-172-31-91-243:~$
```

i-08927dfe3d367cfe8 (master)

PublicIPs: 3.87.5.140   PrivateIPs: 172.31.91.243

```
Last login: Wed Feb  5 11:12:24 2025 from 172.31.91.243
ubuntu@ip-172-31-94-136:~$ java --version
openjdk 11.0.26 2025-01-21
OpenJDK Runtime Environment (build 11.0.26+4-post-Ubuntu-1ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.26+4-post-Ubuntu-1ubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-94-136:~$ docker --version
Docker version 26.1.3, build 26.1.3-0ubuntu1~22.04.1
ubuntu@ip-172-31-94-136:~$ jenkins --version
jenkins: command not found
ubuntu@ip-172-31-94-136:~$
```

i-01e14cf02732913e8 (slave1)

PublicIPs: 44.204.185.17   PrivateIPs: 172.31.94.136

```
Last login: Wed Feb  5 11:12:24 2025 from 172.31.91.243
ubuntu@ip-172-31-94-136:~$ java --version
openjdk 11.0.26 2025-01-21
OpenJDK Runtime Environment (build 11.0.26+4-post-Ubuntu-1ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.26+4-post-Ubuntu-1ubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-94-136:~$ docker --version
Docker version 26.1.3, build 26.1.3-0ubuntu1~22.04.1
ubuntu@ip-172-31-94-136:~$ jenkins --version
jenkins: command not found
ubuntu@ip-172-31-94-136:~$  jenkins --version
jenkins: command not found
ubuntu@ip-172-31-94-136:~$
```

i-01e14cf02732913e8 (slave1)

PublicIPs: 44.204.185.17   PrivateIPs: 172.31.94.136

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

[   ]

Continue

Nodes

Nodes							+ New Node Configure Monitors ↻

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
🖥	Built-In Node	Linux (amd64)	In sync	4.38 GiB	❗ 0 B	4.38 GiB	0ms ⚙
🖥	slave1	Linux (amd64)	In sync	4.89 GiB	❗ 0 B	4.89 GiB	41ms ⚙
🖥	slave2	Linux (amd64)	In sync	4.89 GiB	❗ 0 B	4.89 GiB	78ms ⚙
	last checked	8.2 sec	8.2 sec	8.2 sec	8.2 sec	8.2 sec	8.2 sec

Nodes
Clouds

Build Queue   ⌄
No builds in the queue.

Build Executor Status   ⌄
🖥 Built-In Node   0/2
🖥 slave1   0/1
🖥 slave2   0/1

Icon: S   M   L   Legend

project Public
forked from hshar/website

Pin   Watch 0

dev   2 Branches   0 Tags   Go to file t   Add file   Code

This branch is 1 commit ahead of hshar/website:master .   Contribute   Sync fork

rabeeht2 Create dockerfile   227658a · 1 hour ago   3 Commits

images   final   6 years ago
dockerfile   Create dockerfile   1 hour ago
index.html   modified   6 years ago

README

Add a README
Help people interested in this repository understand your project by adding a README.

Add a README

General

Access
Collaborators
Moderation options

Code and automation
Branches
Tags
Rules
Actions
Webhooks
Environments
Codespaces
Pages

Security
Code security
Deploy keys
Secrets and variables

Integrations

Webhooks / Manage webhook

Settings   Recent Deliveries

3f0e82b0-e3eb-11ef-935d-01dd87157ef2 ping   2025-02-05 23:31:39

Hello world!