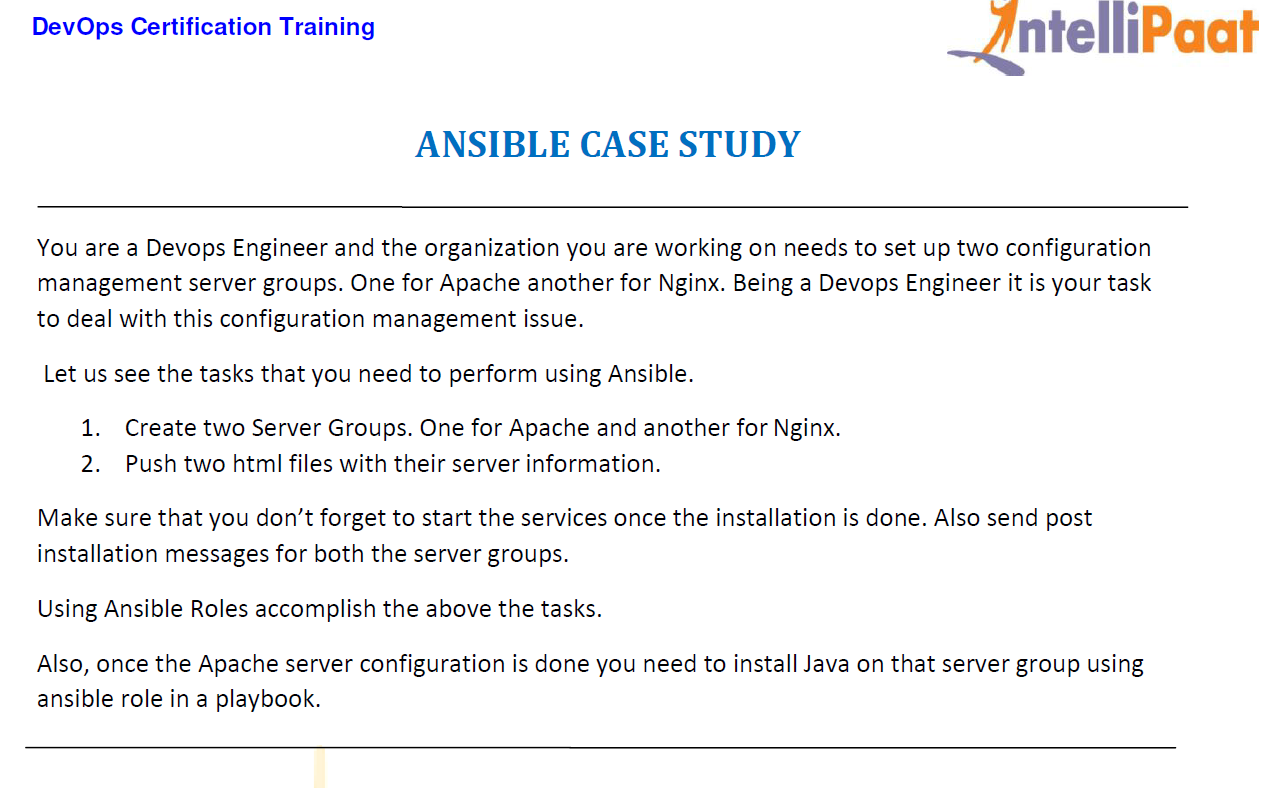
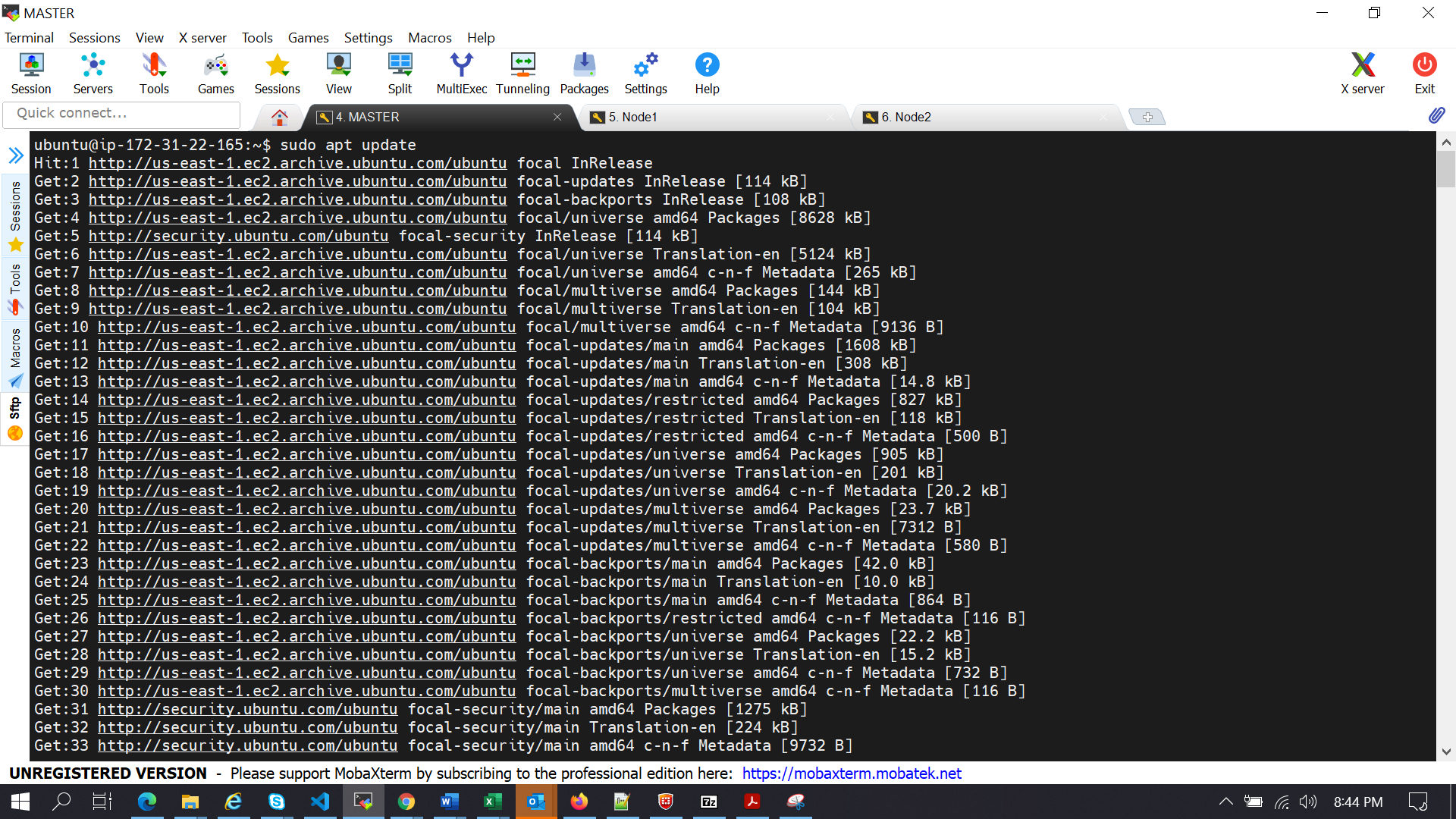
Case Study – Ansible:

Module-5



Solution steps:

1. First of all create three ubuntu instances and make one master and two slaves nodes.



1. Now install Ansible on master and then connect master with both slaves using ssh-keygen keys.
2. So here we will control all the operations on host nodes from controller/master node.

Below are the commands used in the solution:

1 clear

2 sudo apt update

3 sudo apt install software-properties-common

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

5 sudo apt install ansible

6 cd .ssh

7 ls

8 ssh-keygen

9 ls

10 cat id\_rsa.pub

11 cd

12 cd /etc/ansible/

13 ls -lrt

14 sudo nano hosts

15 ansible -m ping apacheserver

16 ansible -m ping nginxserver

17 cd roles/

18 ls

19 sudo ansible-galaxy init role1

20 cd role1/1

21 cd role1/

22 ls

23 cd tasks/

24 ls

25 cat main.yml

26 sudo nano install.yml

27 sudo nano copy.yml

28 sudo nano service.yml

29 sudo nano main.yml

30 cd ../../..

31 sudo nano play.yml

32 ansible-playbook play.yml --syntax-check

33 sudo nano /etc/ansible/roles/role1/tasks/install.yml

34 ansible-playbook play.yml --syntax-check

35 sudo nano /etc/ansible/roles/role1/tasks/copy.yml

36 cd

37 sudo nano index.html

38 cd /etc/ansible/

39 ansible-playbook play.yml --syntax-check

40 sudo nano /etc/ansible/roles/role1/tasks/copy.yml

41 ansible-playbook play.yml --syntax-check

42 ansible-playbook play.yml

43 ls -lrt

44 cat play.yml

45 cd roles/

46 ls

47 cat role1

48 history

49 sudo ansible-galaxy init role2

50 ls

51 cd role2/

52 ls

53 cd tasks/

54 ls

55 nano main.yml

56 cd ../../../

57 ls

58 cd roles/

59 cd role1/

60 ls

61 cd tasks/

62 ls

63 cat copy.yml

64 cat install.yml

65 cat main.yml

66 cat service.yml

67 ls

68 cd ../../

69 cd role2/

70 ls

71 cd tasks/

72 ls

73 nano install.yml

74 sudo nano install.yml

75 sudo nano copy.yml

76 sudo nano main.yml

77 ls

78 sudo nano service.yml

79 ls

80 cd ../../../

81 sudo nano play.yml

82 ansible-playbook play.yml --syntax-check

83 sudo nano /play.yml

84 nano play.yml

85 cat play.yml

86 ansible-playbook play.yml --syntax-check

87 sudo nano play.yml

88 ansible-playbook play.yml --syntax-check

89 ansible-playbook play.yml

EXECUTION OUTPUT:

MASTER:

ubuntu@ip-172-31-22-165:~$ sudo apt update

Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease

Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]

Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]

Get:5 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]

Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]

Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]

Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]

Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]

Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]

Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1608 kB]

Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [308 kB]

Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [14.8 kB]

Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [827 kB]

Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [118 kB]

Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [500 B]

Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [905 kB]

Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [201 kB]

Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [20.2 kB]

Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [23.7 kB]

Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7312 B]

Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [580 B]

Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [42.0 kB]

Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [10.0 kB]

Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [864 B]

Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]

Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [22.2 kB]

Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [15.2 kB]

Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [732 B]

Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]

Get:31 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1275 kB]

Get:32 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [224 kB]

Get:33 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [9732 B]

Get:34 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [773 kB]

Get:35 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [110 kB]

Get:36 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [504 B]

Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [680 kB]

Get:38 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [117 kB]

Get:39 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [13.2 kB]

Get:40 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [20.7 kB]

Get:41 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [5196 B]

Get:42 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [500 B]

Fetched 22.0 MB in 4s (5593 kB/s)

Reading package lists... Done

Building dependency tree

Reading state information... Done

78 packages can be upgraded. Run 'apt list --upgradable' to see them.

ubuntu@ip-172-31-22-165:~$ sudo apt install software-properties-common

Reading package lists... Done

Building dependency tree

Reading state information... Done

software-properties-common is already the newest version (0.99.9.8).

software-properties-common set to manually installed.

0 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.

ubuntu@ip-172-31-22-165:~$ sudo add-apt-repository --yes --update ppa:ansible/ansible

Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease

Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease

Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease

Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease

Get:5 http://ppa.launchpad.net/ansible/ansible/ubuntu focal InRelease [18.0 kB]

Get:6 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 Packages [1128 B]

Get:7 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main Translation-en [756 B]

Fetched 19.9 kB in 1s (26.0 kB/s)

Reading package lists... Done

ubuntu@ip-172-31-22-165:~$ sudo apt install ansible

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

ansible-core python3-bcrypt python3-jmespath python3-kerberos python3-ntlm-auth python3-packaging python3-paramiko python3-pyparsing

python3-requests-kerberos python3-requests-ntlm python3-resolvelib python3-winrm python3-xmltodict sshpass

Suggested packages:

python3-gssapi python-pyparsing-doc

The following NEW packages will be installed:

ansible ansible-core python3-bcrypt python3-jmespath python3-kerberos python3-ntlm-auth python3-packaging python3-paramiko python3-pyparsing

python3-requests-kerberos python3-requests-ntlm python3-resolvelib python3-winrm python3-xmltodict sshpass

0 upgraded, 15 newly installed, 0 to remove and 78 not upgraded.

Need to get 23.2 MB of archives.

After this operation, 303 MB of additional disk space will be used.

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

Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-pyparsing all 2.4.6-1 [61.3 kB]

Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-packaging all 20.3-1 [26.8 kB]

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3-jmespath all 0.9.4-2ubuntu1 [21.5 kB]

Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-kerberos amd64 1.1.14-3.1build1 [22.6 kB]

Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-ntlm-auth all 1.1.0-1 [19.6 kB]

Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-bcrypt amd64 3.1.7-2ubuntu1 [30.4 kB]

Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 python3-paramiko all 2.6.0-2 [122 kB]

Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-requests-kerberos all 0.12.0-2 [11.9 kB]

Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-requests-ntlm all 1.1.0-1 [6004 B]

Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-xmltodict all 0.12.0-1 [12.6 kB]

Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 python3-winrm all 0.3.0-2 [21.7 kB]

Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 sshpass amd64 1.06-1 [10.5 kB]

Get:13 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 python3-resolvelib all 0.5.4-2ppa~focal [12.6 kB]

Get:14 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 ansible-core all 2.12.2-1ppa~focal [941 kB]

Get:15 http://ppa.launchpad.net/ansible/ansible/ubuntu focal/main amd64 ansible all 5.4.0-1ppa~focal [21.9 MB]

Fetched 23.2 MB in 3s (8551 kB/s)

Selecting previously unselected package python3-pyparsing.

(Reading database ... 63895 files and directories currently installed.)

Preparing to unpack .../00-python3-pyparsing\_2.4.6-1\_all.deb ...

Unpacking python3-pyparsing (2.4.6-1) ...

Selecting previously unselected package python3-packaging.

Preparing to unpack .../01-python3-packaging\_20.3-1\_all.deb ...

Unpacking python3-packaging (20.3-1) ...

Selecting previously unselected package python3-resolvelib.

Preparing to unpack .../02-python3-resolvelib\_0.5.4-2ppa~focal\_all.deb ...

Unpacking python3-resolvelib (0.5.4-2ppa~focal) ...

Selecting previously unselected package ansible-core.

Preparing to unpack .../03-ansible-core\_2.12.2-1ppa~focal\_all.deb ...

Unpacking ansible-core (2.12.2-1ppa~focal) ...

Selecting previously unselected package ansible.

Preparing to unpack .../04-ansible\_5.4.0-1ppa~focal\_all.deb ...

Unpacking ansible (5.4.0-1ppa~focal) ...

Selecting previously unselected package python3-jmespath.

Preparing to unpack .../05-python3-jmespath\_0.9.4-2ubuntu1\_all.deb ...

Unpacking python3-jmespath (0.9.4-2ubuntu1) ...

Selecting previously unselected package python3-kerberos.

Preparing to unpack .../06-python3-kerberos\_1.1.14-3.1build1\_amd64.deb ...

Unpacking python3-kerberos (1.1.14-3.1build1) ...

Selecting previously unselected package python3-ntlm-auth.

Preparing to unpack .../07-python3-ntlm-auth\_1.1.0-1\_all.deb ...

Unpacking python3-ntlm-auth (1.1.0-1) ...

Selecting previously unselected package python3-bcrypt.

Preparing to unpack .../08-python3-bcrypt\_3.1.7-2ubuntu1\_amd64.deb ...

Unpacking python3-bcrypt (3.1.7-2ubuntu1) ...

Selecting previously unselected package python3-paramiko.

Preparing to unpack .../09-python3-paramiko\_2.6.0-2\_all.deb ...

Unpacking python3-paramiko (2.6.0-2) ...

Selecting previously unselected package python3-requests-kerberos.

Preparing to unpack .../10-python3-requests-kerberos\_0.12.0-2\_all.deb ...

Unpacking python3-requests-kerberos (0.12.0-2) ...

Selecting previously unselected package python3-requests-ntlm.

Preparing to unpack .../11-python3-requests-ntlm\_1.1.0-1\_all.deb ...

Unpacking python3-requests-ntlm (1.1.0-1) ...

Selecting previously unselected package python3-xmltodict.

Preparing to unpack .../12-python3-xmltodict\_0.12.0-1\_all.deb ...

Unpacking python3-xmltodict (0.12.0-1) ...

Selecting previously unselected package python3-winrm.

Preparing to unpack .../13-python3-winrm\_0.3.0-2\_all.deb ...

Unpacking python3-winrm (0.3.0-2) ...

Selecting previously unselected package sshpass.

Preparing to unpack .../14-sshpass\_1.06-1\_amd64.deb ...

Unpacking sshpass (1.06-1) ...

Setting up python3-ntlm-auth (1.1.0-1) ...

Setting up python3-bcrypt (3.1.7-2ubuntu1) ...

Setting up python3-resolvelib (0.5.4-2ppa~focal) ...

Setting up python3-kerberos (1.1.14-3.1build1) ...

Setting up sshpass (1.06-1) ...

Setting up python3-xmltodict (0.12.0-1) ...

Setting up python3-pyparsing (2.4.6-1) ...

Setting up python3-jmespath (0.9.4-2ubuntu1) ...

Setting up python3-requests-kerberos (0.12.0-2) ...

Setting up python3-paramiko (2.6.0-2) ...

Setting up python3-requests-ntlm (1.1.0-1) ...

Setting up python3-packaging (20.3-1) ...

Setting up python3-winrm (0.3.0-2) ...

Setting up ansible-core (2.12.2-1ppa~focal) ...

Setting up ansible (5.4.0-1ppa~focal) ...

Processing triggers for man-db (2.9.1-1) ...

ubuntu@ip-172-31-22-165:~$ cd .ssh

ubuntu@ip-172-31-22-165:~/.ssh$ ls

authorized\_keys

ubuntu@ip-172-31-22-165:~/.ssh$ ssh-keygen

Generating public/private rsa key pair.

Enter file in which to save the key (/home/ubuntu/.ssh/id\_rsa):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Passphrases do not match. Try again.

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

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:HfY21unSLlO53/bHfiaTjJee8aX26/sN8xyp886Outw ubuntu@ip-172-31-22-165

The key's randomart image is:

+---[RSA 3072]----+

| |

| |

| o |

| o o . . |

| S . = o. |

| o +o .|

| .+\*B.|

| . =+&X@|

| +oE@^^|

+----[SHA256]-----+

ubuntu@ip-172-31-22-165:~/.ssh$ ls

authorized\_keys id\_rsa id\_rsa.pub

ubuntu@ip-172-31-22-165:~/.ssh$ cat id\_rsa.pub

ssh-rsa  ubuntu@ip-172-31-22-165

ubuntu@ip-172-31-22-165:~/.ssh$ cd

ubuntu@ip-172-31-22-165:~$ cd /etc/ansible/

ubuntu@ip-172-31-22-165:/etc/ansible$ ls -lrt

total 12

-rw-r--r-- 1 root root 1018 Jan 31 20:26 hosts

-rw-r--r-- 1 root root 614 Jan 31 20:26 ansible.cfg

drwxr-xr-x 2 root root 4096 Feb 1 17:52 roles

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano hosts

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible -m ping apacheserver

The authenticity of host 'ip-172-31-20-135 (172.31.20.135)' can't be established.

ECDSA key fingerprint is SHA256:HCoKsqD4dfyKnifFRDVBeTTNiGNVLoWQX4F8duLj6Dk.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

ip-172-31-20-135 | SUCCESS => {

"ansible\_facts": {

"discovered\_interpreter\_python": "/usr/bin/python3"

},

"changed": false,

"ping": "pong"

}

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible -m ping nginxserver

The authenticity of host 'ip-172-31-17-122 (172.31.17.122)' can't be established.

ECDSA key fingerprint is SHA256:eV7xnjp6W4Mc4fZGkIxIhyhg8wth9ZFJCYpN/bjeM0k.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

ip-172-31-17-122 | SUCCESS => {

"ansible\_facts": {

"discovered\_interpreter\_python": "/usr/bin/python3"

},

"changed": false,

"ping": "pong"

}

ubuntu@ip-172-31-22-165:/etc/ansible$ cd roles/

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ ls

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ sudo ansible-galaxy init role1

- Role role1 was created successfully

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ cd role1/1

-bash: cd: role1/1: No such file or directory

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ cd role1/1

-bash: cd: role1/1: No such file or directory

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ cd role1/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1$ ls

README.md defaults files handlers meta tasks templates tests vars

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1$ cd tasks/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ ls

main.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ cat main.yml

---

# tasks file for role1

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ sudo nano install.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ sudo nano copy.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ sudo nano service.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ sudo nano main.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ cd ../../..

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

ERROR! We were unable to read either as JSON nor YAML, these are the errors we got from each:

JSON: Expecting value: line 1 column 1 (char 0)

Syntax Error while loading YAML.

could not find expected ':'

The error appears to be in '/etc/ansible/roles/role1/tasks/install.yml': line 4, column 12, but may

be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

apt: name=apache2 update\_cache=yes state=latest

^ here

There appears to be both 'k=v' shorthand syntax and YAML in this task. Only one syntax may be used.

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano /etc/ansible/roles/role1/tasks/install.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

ERROR! this task 'copy' has extra params, which is only allowed in the following modules: ansible.legacy.raw, ansible.legacy.import\_role, group\_by, include\_role, import\_tasks, ansible.windows.win\_shell, ansible.builtin.raw, ansible.builtin.import\_tasks, ansible.builtin.win\_shell, command, ansible.legacy.win\_shell, ansible.legacy.include, add\_host, win\_command, ansible.legacy.include\_vars, include, ansible.builtin.include\_role, include\_tasks, ansible.legacy.shell, ansible.builtin.group\_by, meta, ansible.builtin.script, ansible.builtin.shell, ansible.builtin.command, script, ansible.builtin.include\_vars, shell, ansible.legacy.group\_by, ansible.legacy.import\_tasks, ansible.legacy.add\_host, ansible.legacy.meta, ansible.legacy.command, ansible.legacy.script, ansible.builtin.win\_command, ansible.legacy.include\_role, ansible.builtin.meta, ansible.builtin.include, ansible.builtin.include\_tasks, ansible.builtin.import\_role, include\_vars, ansible.legacy.set\_fact, raw, ansible.builtin.set\_fact, ansible.legacy.include\_tasks, win\_shell, ansible.builtin.add\_host, set\_fact, ansible.legacy.win\_command, ansible.windows.win\_command, import\_role

The error appears to be in '/etc/ansible/roles/role1/tasks/copy.yml': line 2, column 3, but may

be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

---

- name: copying files from mastermachine to slave 1

^ here

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano /etc/ansible/roles/role1/tasks/copy.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ cd

ubuntu@ip-172-31-22-165:~$ sudo nano index.html

ubuntu@ip-172-31-22-165:~$ cd /etc/ansible/

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

ERROR! this task 'copy' has extra params, which is only allowed in the following modules: script, import\_tasks, ansible.legacy.import\_role, import\_role, ansible.builtin.win\_command, ansible.legacy.add\_host, ansible.legacy.include\_role, ansible.builtin.add\_host, ansible.builtin.command, ansible.builtin.shell, ansible.legacy.include\_tasks, shell, ansible.windows.win\_shell, command, win\_shell, ansible.builtin.group\_by, ansible.builtin.include\_role, win\_command, ansible.builtin.include\_tasks, ansible.builtin.set\_fact, include, raw, ansible.legacy.group\_by, meta, ansible.builtin.include, ansible.builtin.include\_vars, ansible.builtin.script, ansible.builtin.import\_role, ansible.legacy.script, ansible.legacy.win\_shell, ansible.legacy.import\_tasks, ansible.legacy.set\_fact, ansible.builtin.raw, include\_role, ansible.legacy.win\_command, group\_by, ansible.legacy.command, add\_host, set\_fact, include\_tasks, ansible.windows.win\_command, ansible.legacy.meta, ansible.builtin.win\_shell, ansible.legacy.shell, ansible.legacy.include\_vars, include\_vars, ansible.builtin.meta, ansible.builtin.import\_tasks, ansible.legacy.raw, ansible.legacy.include

The error appears to be in '/etc/ansible/roles/role1/tasks/copy.yml': line 2, column 3, but may

be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

---

- name: copying files from mastermachine to slave 1

^ here

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano /etc/ansible/roles/role1/tasks/copy.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

playbook: play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

PLAY [apacheserver] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [role1 : installing apache2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-20-135]

TASK [role1 : copying files from mastermachine to slave 1] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-20-135]

TASK [role1 : restart apache2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-20-135]

PLAY RECAP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ip-172-31-20-135 : ok=4 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

ubuntu@ip-172-31-22-165:/etc/ansible$ ls -lrt

total 16

-rw-r--r-- 1 root root 614 Jan 31 20:26 ansible.cfg

-rw-r--r-- 1 root root 1081 Mar 2 13:50 hosts

drwxr-xr-x 3 root root 4096 Mar 2 13:52 roles

-rw-r--r-- 1 root root 46 Mar 2 13:58 play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ cat play.yml

---

- hosts: apacheserver

roles:

- role1

ubuntu@ip-172-31-22-165:/etc/ansible$ cd roles/

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ ls

role1

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ cat role1

cat: role1: Is a directory

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ history

1 clear

2 sudo apt update

3 sudo apt install software-properties-common

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

5 sudo apt install ansible

6 cd .ssh

7 ls

8 ssh-keygen

9 ls

10 cat id\_rsa.pub

11 cd

12 cd /etc/ansible/

13 ls -lrt

14 sudo nano hosts

15 ansible -m ping apacheserver

16 ansible -m ping nginxserver

17 cd roles/

18 ls

19 sudo ansible-galaxy init role1

20 cd role1/1

21 cd role1/

22 ls

23 cd tasks/

24 ls

25 cat main.yml

26 sudo nano install.yml

27 sudo nano copy.yml

28 sudo nano service.yml

29 sudo nano main.yml

30 cd ../../..

31 sudo nano play.yml

32 ansible-playbook play.yml --syntax-check

33 sudo nano /etc/ansible/roles/role1/tasks/install.yml

34 ansible-playbook play.yml --syntax-check

35 sudo nano /etc/ansible/roles/role1/tasks/copy.yml

36 cd

37 sudo nano index.html

38 cd /etc/ansible/

39 ansible-playbook play.yml --syntax-check

40 sudo nano /etc/ansible/roles/role1/tasks/copy.yml

41 ansible-playbook play.yml --syntax-check

42 ansible-playbook play.yml

43 ls -lrt

44 cat play.yml

45 cd roles/

46 ls

47 cat role1

48 history

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ ^C

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ sudo ansible-galaxy init role2

- Role role2 was created successfully

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ ls

role1 role2

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ cd role2/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2$ ls

README.md defaults files handlers meta tasks templates tests vars

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2$ cd tasks/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ ls

main.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ nano main.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ cd ../../../

ubuntu@ip-172-31-22-165:/etc/ansible$ ls

ansible.cfg hosts play.yml roles

ubuntu@ip-172-31-22-165:/etc/ansible$ cd roles/

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ cd role1/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1$ ls

README.md defaults files handlers meta tasks templates tests vars

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1$ cd tasks/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ ls

copy.yml install.yml main.yml service.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ cat copy.yml

---

- name: copying files from mastermachine to slave 1

copy: src=/home/ubuntu/index.html dest=/var/www/html/

become: true

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ cat install.yml

---

- name: installing apache2

apt: name=apache2 update\_cache=yes state=latest

become: true

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ cat main.yml

---

# tasks file for role1

- include: install.yml

- include: copy.yml

- include: service.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ cat service.yml

---

- name: restart apache2

service: name=apache2 state=restarted

become: true

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ ls

copy.yml install.yml main.yml service.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role1/tasks$ cd ../../

ubuntu@ip-172-31-22-165:/etc/ansible/roles$ cd role2/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2$ ls

README.md defaults files handlers meta tasks templates tests vars

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2$ cd tasks/

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ ls

main.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ nano install.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ sudo nano install.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ sudo nano copy.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ sudo nano main.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ ls

copy.yml install.yml main.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ sudo nano service.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ ls

copy.yml install.yml main.yml service.yml

ubuntu@ip-172-31-22-165:/etc/ansible/roles/role2/tasks$ cd ../../../

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

ERROR! We were unable to read either as JSON nor YAML, these are the errors we got from each:

JSON: Expecting value: line 1 column 1 (char 0)

Syntax Error while loading YAML.

but found another document

The error appears to be in '/etc/ansible/play.yml': line 5, column 1, but may

be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

- role1

---

^ here

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano /play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ nano play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ cat play.yml

---

- hosts: apacheserver

roles:

- role1

---

- hosts: nginxserver

roles:

- role2

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

ERROR! We were unable to read either as JSON nor YAML, these are the errors we got from each:

JSON: Expecting value: line 1 column 1 (char 0)

Syntax Error while loading YAML.

but found another document

The error appears to be in '/etc/ansible/play.yml': line 5, column 1, but may

be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

- role1

---

^ here

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

playbook: play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

PLAY [apacheserver] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [role1 : installing apache2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [role1 : copying files from mastermachine to slave 1] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [role1 : restart apache2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-20-135]

PLAY [nginxserver] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-17-122]

TASK [role2 : installing nginx] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-17-122]

TASK [role2 : copying files from mastermachine to slave 2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-17-122]

TASK [role2 : restart nginx] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-17-122]

PLAY RECAP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ip-172-31-17-122 : ok=4 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

ip-172-31-20-135 : ok=4 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

**NODES:**

ubuntu@ip-172-31-17-122:~$ cd .ssh

ubuntu@ip-172-31-17-122:~/.ssh$ ls

authorized\_keys

ubuntu@ip-172-31-17-122:~/.ssh$ sudo nano authorized\_keys

ubuntu@ip-172-31-17-122:~/.ssh$ cat authorized\_keys

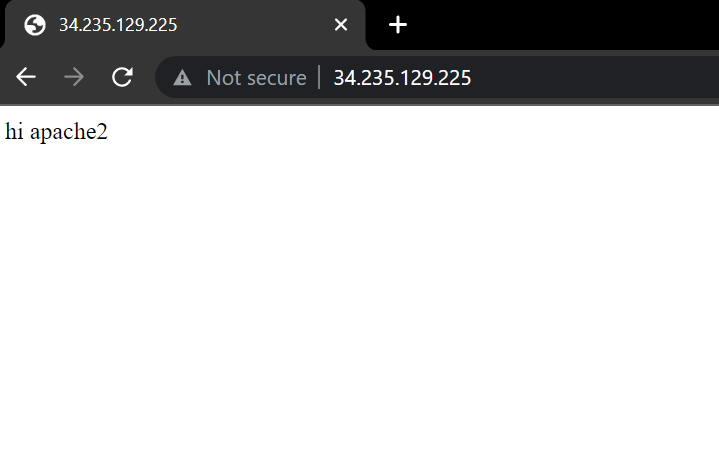
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDMEIjUsh9ADzNmpGOBYAGNvzUYTtppGn3dkn/WXw5CLgyiBw8idtQYeKUHObYzvzNh5XSNfFIDKC94wD8pfCgp4uO+I8bRbJQv5MppMCtudzs1EPjhDT3IQ6T4JJF/FTcYYOWN41+cKyyO6NLwS+88ONR/gR81RAmx2CtWwGsv3CzzSMwX92iWc5TNWWlFImLxu0mehGo8VV4fBxzIHzd+jXLH9x2C6bs5MmTFhZT0wWhZSOf5NSGZVtToN7t5u1Y5jUreh9/+qjxZYLZ98eTR1cOpONItLKY6J36yTxv4mR1/Yg5TuX7guBMyEWTKLQAUz5BITVoMyF6iyJAaOvPf Nvirginia

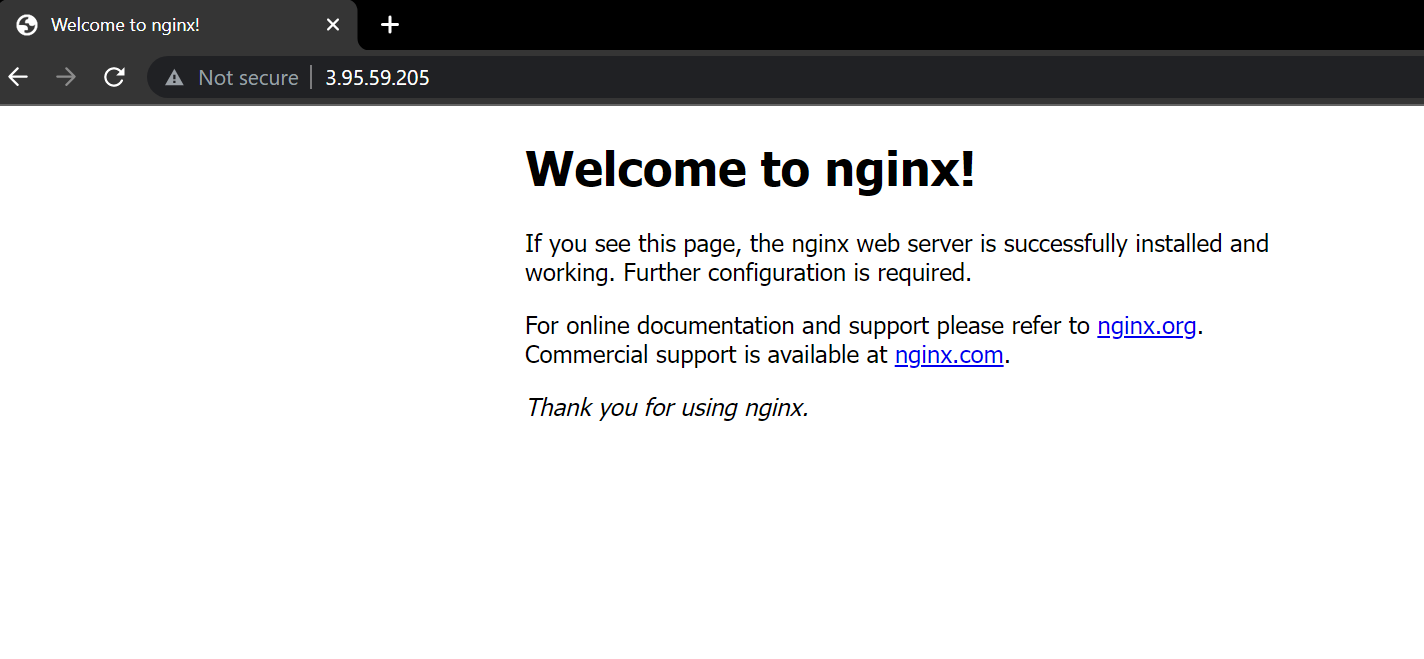
ssh-rsa  ubuntu@ip-172-31-22-165

ubuntu@ip-172-31-17-122:~/.ssh$ hostname

ip-172-31-17-122

[ubuntu@ip-172-31-17-122:~/.ssh$](mailto:ubuntu@ip-172-31-17-122:~/.ssh$)





Now on both the slaves Java is installed and checked :y

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ sudo nano play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ cat play.yml

---

- hosts: apacheserver

roles:

- role1

- hosts: nginxserver

roles:

- role2

- hosts: apacheserver

tasks:

- name: Task - 1 Update APT package manager repositories cache

become: true

apt:

update\_cache: yes

- name: Task -2 Install Java using Ansible

become: yes

apt:

name: "{{ packages }}"

state: present

vars:

packages:

- openjdk-11-jdk

- hosts: nginxserver

tasks:

- name: Task - 1 Update APT package manager repositories cache

become: true

apt:

update\_cache: yes

- name: Task -2 Install Java using Ansible

become: yes

apt:

name: "{{ packages }}"

state: present

vars:

packages:

- openjdk-11-jdk

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml --syntax-check

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

playbook: play.yml

ubuntu@ip-172-31-22-165:/etc/ansible$ ansible-playbook play.yml

[DEPRECATION WARNING]: "include" is deprecated, use include\_tasks/import\_tasks instead. This feature will be removed in version 2.16. Deprecation

warnings can be disabled by setting deprecation\_warnings=False in ansible.cfg.

PLAY [apacheserver] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [role1 : installing apache2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [role1 : copying files from mastermachine to slave 1] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [role1 : restart apache2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-20-135]

PLAY [nginxserver] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-17-122]

TASK [role2 : installing nginx] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-17-122]

TASK [role2 : copying files from mastermachine to slave 2] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-17-122]

TASK [role2 : restart nginx] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-17-122]

PLAY [apacheserver] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-20-135]

TASK [Task - 1 Update APT package manager repositories cache] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-20-135]

TASK [Task -2 Install Java using Ansible] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-20-135]

PLAY [nginxserver] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [ip-172-31-17-122]

TASK [Task - 1 Update APT package manager repositories cache] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-17-122]

TASK [Task -2 Install Java using Ansible] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [ip-172-31-17-122]

PLAY RECAP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ip-172-31-17-122 : ok=7 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

ip-172-31-20-135 : ok=7 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

Screenshots of whole installation:

