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Section: CPE31S4	Instructor: Dr. Taylar

```
andayalyka@managenode:~$ git clone https://github.com/andayalyka/Andaya_PrelimEx
am.git
```
Description: cloning the repository Andaya_PrelimExam

```
  GNU nano 2.9.3                        inventory

[Virtual Machines]
192.168.56.102 ansible_python_interpreter=/usr/bin/python3
192.168.56.102 apache_package=apache2 php_package=libapache2-mod-php
192.168.56.104 apache_package=httpd php_package=php
```
Description: inventory in ubuntu

```
  GNU nano 2.9.3                       ansible.cfg

[defaults]

inventory = inventory
host_key_checking = False

deprecation_warning = False

remote_user = andayalyka
private_key_files = ~/.ssh/id_rsa.pub
```
Description: this is the created ansible

```
  GNU nano 2.9.3                                                          config.yaml

---
- hosts: all
  become: true
  vars:
      ansible_python_interpreter: /usr/bin/python3
  tasks:

  - name: install python3 for Ubuntu
    apt:
      name:
        - python3
      state: latest
    when: ansible_distribution == "Ubuntu"

  - name: Install Java OpenJDK
    apt:
      name: openjdk-11-jdk
      state: latest
    when: ansible_distribution == "Ubuntu"

  - name: install and upgrade pip for Ubuntu
    pip:
      name: pip
      extra_args: --upgrade
      executable: pip3
    when: ansible_distribution == "Ubuntu"

  - name: install Java OpendJDK
    dnf:
      name: java-11-openjdk-devel
      state: latest
    when: ansible_distribution == "CentOS"

  - name: install python3 for CentOS
    dnf:
      name:
        - python3
      state: latest
    when: ansible_distribution == "CentOS"

  - name: install and upgrade pip for CentOS
    pip:
      name: pip
      extra_args: --upgrade
      executable: pip3
    when: ansible_distribution == "CentOS"
```

Description: commands in config.yaml file

```
andayalyka@managenode:~/Andaya_PrelimExam$ ansible-playbook --ask-become-pass config.yaml
[DEPRECATION WARNING]: Ansible will require Python 3.8 or newer on the controller starting with Ansible 2.12. Current version: 3.6.9
 (default, Mar 10 2023, 16:46:00) [GCC 8.4.0]. This feature will be removed from ansible-core in version 2.12. Deprecation warnings
can be disabled by setting deprecation_warnings=False in ansible.cfg.
BECOME password:

PLAY [all] *********************************************************************************************************************

TASK [Gathering Facts] *********************************************************************************************************
ok: [192.168.56.104]
ok: [192.168.56.102]

TASK [install python3 for Ubuntu] *********************************************************************************************
skipping: [192.168.56.104]
ok: [192.168.56.102]

TASK [Install Java OpenJDK] ****************************************************************************************************
skipping: [192.168.56.104]
ok: [192.168.56.102]

TASK [install and upgrade pip for Ubuntu] *************************************************************************************
skipping: [192.168.56.104]
ok: [192.168.56.102]

TASK [install Java OpendJDK] ***************************************************************************************************
skipping: [192.168.56.102]
ok: [192.168.56.104]

TASK [install python3 for CentOS] *********************************************************************************************
skipping: [192.168.56.102]
ok: [192.168.56.104]

TASK [install and upgrade pip for CentOS] *************************************************************************************
skipping: [192.168.56.102]
ok: [192.168.56.104]

PLAY RECAP *********************************************************************************************************************
192.168.56.102             : ok=4    changed=0    unreachable=0    failed=0    skipped=3    rescued=0    ignored=0
192.168.56.104             : ok=4    changed=0    unreachable=0    failed=0    skipped=3    rescued=0    ignored=0
```

Description: success installing of python and java.

```
andayalyka@managenode:~/Andaya_PrelimExam$ python3 --version
Python 3.6.9
andayalyka@managenode:~/Andaya_PrelimExam$ java -version
openjdk version "11.0.19" 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu118.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu118.04.1, mixed mode, sharing)
```

Description: python and java in ubuntu

```
[andayalyka@localhost Andaya_PrelimExam]$ python3 --version
Python 3.6.8
[andayalyka@localhost Andaya_PrelimExam]$ java -version
openjdk version "1.8.0_382"
OpenJDK Runtime Environment (build 1.8.0_382-b05)
OpenJDK 64-Bit Server VM (build 25.382-b05, mixed mode)
```

Description: python and java in centos