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TO : GAMUTIANS
FROM : GEETHA
SUBJECT : **ANSIBLE NOTES**
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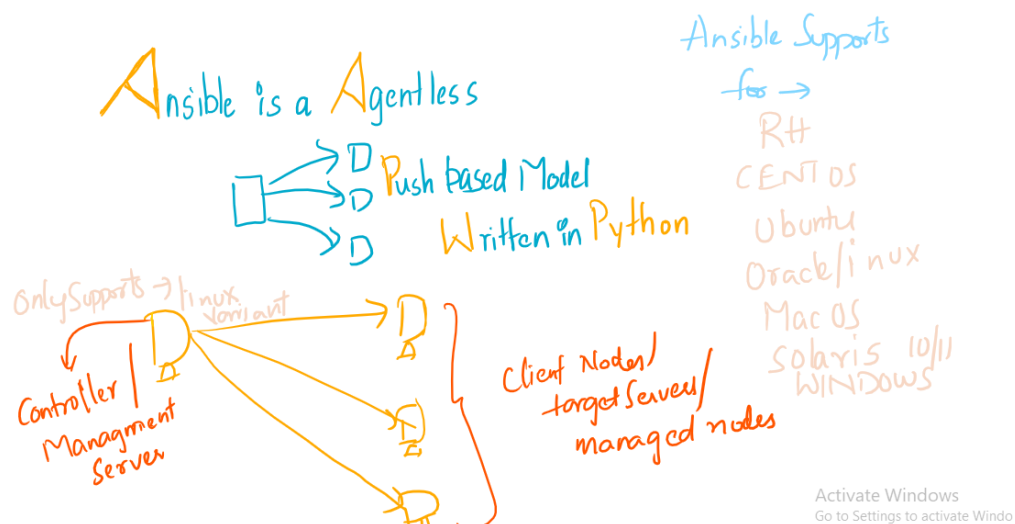
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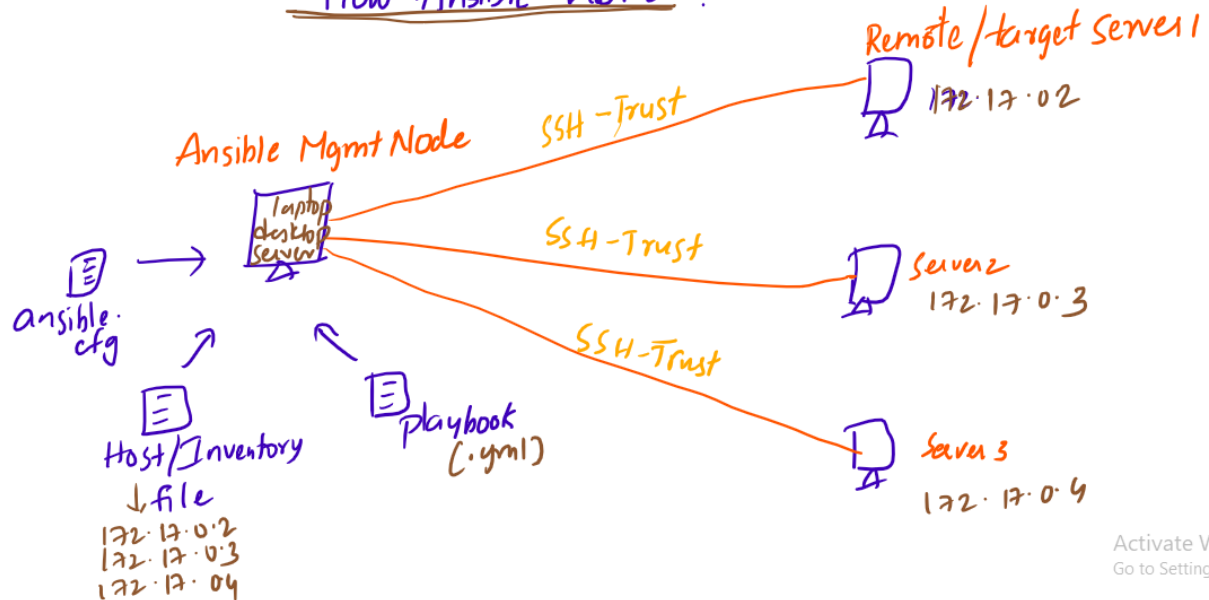
Introduction to Ansible

- Ansible is a IT Automation configuration Management and Orchestration Software.
- Orchestration, is a automated arrangement, coordination, and Management of computer systems, middleware and services
- Ansible is majorly used by DevOps and System administrators
- Ansible is a opensource and easy to use.
- Ansible is founded in Feb- 2012, Redhat acquired in Oct-2015
- As a configuration management tool, the primary responsibility of Ansible is to maintain Defined State(some times called Desired State) mentioned in the code while running on any node.

Architecture of Ansible



How Ansible Works ?



Activate Wind
Go to Settings to a

TEST ENVIRONMENT SETUP

Setup Target Servers using Docker:

Step 1:

Install Docker using below commands, Also can Refer URL :

<https://docs.docker.com/install/linux/docker-ce/ubuntu/>

```
sudo apt-get update
```

```
sudo apt-get install \
```

```
apt-transport-https \
```

```
ca-certificates \
```

```
curl \
```

```
gnupg-agent \
```

```
software-properties-common
```

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

```
sudo apt-key fingerprint 0EBFCD88
```



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```
sudo add-apt-repository \  
    "deb [arch=amd64] https://download.docker.com/linux/ubuntu \  
    $(lsb_release -cs) \  
    stable"
```

```
sudo apt-get update  
sudo apt-get install docker-ce docker-ce-cli containerd.io
```

```
root@ubuntu:~# docker --version  
Docker version 19.03.5, build 633a0ea838
```

Step 2:

Create Docker File with basic softwares :

```
root@ubuntu:~/weekend_gamut/docker# cat Dockerfile  
FROM ubuntu:16.04  
RUN apt-get update  
RUN apt-get install -y openssh-server  
RUN apt-get install -y vim  
RUN apt-get install net-tools  
RUN apt-get update  
ENTRYPOINT service ssh start && bash
```

Step 3:

Build the Image

```
root@ubuntu:~/weekend_gamut/docker# docker build -t bareimage .
Sending build context to Docker daemon 2.048kB
Step 1/7 : FROM ubuntu:16.04
--> c6a43cd4801e
Step 2/7 : RUN apt-get update
--> Using cache
--> dd85ad15f876
Step 3/7 : RUN apt-get install -y openssh-server
--> Using cache
--> d2ac2673a1ed
Step 4/7 : RUN apt-get install -y vim
--> Using cache
--> d21ca38421cc
Step 5/7 : RUN apt-get install net-tools
--> Using cache
--> 5895fdb281c1
Step 6/7 : RUN apt-get update
--> Using cache
--> 2359342f25c1
Step 7/7 : ENTRYPOINT service ssh start &&bash
--> Using cache
--> 97eac6bcb4b1
Successfully built 97eac6bcb4b1
Successfully tagged bareimage:latest
root@ubuntu:~/weekend_gamut/docker#
```

Step 4:

Create the Container as below –

```
root@ubuntu:~/weekend_gamut/docker# docker run -itd --name targetserver3 bareimage /bin/bash
```

Step 5:

Connect to the Container - \$ docker attach <containerID>

And

Set the root password in Containers, Using command “passwd” and Now lets connect through ssh with password ->

```
root@cbd3b3931412:~# ssh root@172.17.0.3
```

The authenticity of host '172.17.0.3 (172.17.0.3)' can't be established.

ECDSA key fingerprint is SHA256:jApvJc2pWx9gJdxHc162QvnlxLAgo1xVuS5QQDvxzh4.

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

Warning: Permanently added '172.17.0.3' (ECDSA) to the list of known hosts.

```
root@172.17.0.3's password:
```

Permission denied, please try again.



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If we are getting “**Permission denied, please try again**” error means, In /etc/ssh/sshd_config file, change PermitRootLogin to yes as show as below. And restart the ssh server.

```
vi /etc/ssh/sshd_config
```

```
# Authentication:
```

```
LoginGraceTime 120
```

```
PermitRootLogin yes
```

```
StrictModes yes
```

```
root@83010918f53e:/# service ssh restart
```

```
* Restarting OpenBSD Secure Shell server sshd
```

```
[ OK ]
```

Now, Let's connect and see...

```
root@ubuntu:~/weekend_gamut/docker# ssh root@172.17.0.3
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-74-generic x86_64)

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

Last login: Sat Jan 18 12:35:57 2020 from 172.17.0.1
root@83010918f53e:/#
```

b. Create ssh-trust between management and target servers

Step 1: Generate a New SSH Key:

The simplest way to generate a key pair is to run ssh-keygen without arguments. In this case, it will prompt for the file in which to store keys. Here's an example:

```

root@ubuntu:~/ssh# pwd
/root/.ssh
root@ubuntu:~/ssh# ls -ltra
total 8
drwx----- 8 root root 4096 Jan 18 03:30 ..
drwx----- 2 root root 4096 Feb  7 20:53 .
root@ubuntu:~/ssh# ssh-keygen
Generating public/private rsa key pair.
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:/iWvLNXsjcJ051GyEMylz8ktuPN67Y85H7fL1bqdDYg root@ubuntu
The key's randomart image is:
+---[RSA 2048]-----+
|
|   .+.
|  +* o
|  ...* .
|   ....
|  S oo. +
| . o.+++ .
|  .+Eoo=o++
|  .oo+o.**0
|  .+oo.=X0
+---[SHA256]-----+
root@ubuntu:~/ssh#

```

It will generate “id_rsa.pub and id_rsa” files at .ssh folder.

```

root@ubuntu:~/ssh# ls -ltra
total 16
drwx----- 8 root root 4096 Jan 18 03:30 ..
-rw----- 1 root root 1675 Feb  7 21:05 id_rsa
-rw-r--r-- 1 root root 393 Feb  7 21:05 id_rsa.pub
drwx----- 2 root root 4096 Feb  7 21:05 .
root@ubuntu:~/ssh#
root@ubuntu:~/ssh#
root@ubuntu:~/ssh#
root@ubuntu:~/ssh#
root@ubuntu:~/ssh#
root@ubuntu:~/ssh# cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQFTjgFXCa4toZR4AWlrw6tQQ4G9SeqW9YPodQkCIAD5+f/84Uozvt7LA0rdaPAeyWeY/Ao1x3L1Hjh61UPNDlD0saCSxHX64rWODVeqHhZ72MFVNoKA0m8it99C
KJAMUrVoX3USA5ca9hSYidnhpkTVL6WjM4K4qdUj57Y8mPd/MdgozNXpUGIA9nGvAvnPngqcttuix+rJNpJQJewzW1Tsr1Txpkk8T8NHs0Ds09KinXr+x2LbgyzBYje09KnuT23uBNZRgYoLKgFJzKpIbq5I72nTY
v41DmgFQXOhQTh1JJNwpzBb7FVhuw9D39GZGjxku3ep0sfsk9akfQxRd root@ubuntu

```

Step 2: Copying the Public Key to the Server:

We have to copy id_rsa.pub key to the target servers “authorized_keys” file. Lets do the same as below for two target servers(docker containers) :

```

root@ubuntu:~/ssh# ssh-copy-id root@172.17.0.2
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
The authenticity of host '172.17.0.2 (172.17.0.2)' can't be established.
ECDSA key fingerprint is SHA256:jApvJc2pWx9gJdxHc162QvnLxLAgo1xVuS5QQDvxzh4.
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
root@172.17.0.2's password:

Number of key(s) added: 1

Now try logging into the machine, with:  "ssh 'root@172.17.0.2'"
and check to make sure that only the key(s) you wanted were added.
root@ubuntu:~/ssh#

```

```
root@ubuntu:~/.ssh# ssh-copy-id root@172.17.0.3
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
The authenticity of host '172.17.0.3 (172.17.0.3)' can't be established.
ECDSA key fingerprint is SHA256:jApvJc2pWx9gJdxHc162QvnLxLAgo1xVuS5QQDvxzh4.
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
root@172.17.0.3's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'root@172.17.0.3'"
and check to make sure that only the key(s) you wanted were added.
root@ubuntu:~/.ssh#
```

Step 3: Now lets try to connect to server with passwordless login:

```
root@ubuntu:~# ssh root@172.17.0.2
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-76-generic x86_64)

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

Last login: Fri Jan 31 15:37:32 2020 from 172.17.0.1
root@83010918f53e:~#
root@83010918f53e:~#
```

```
root@ubuntu:~# ssh root@172.17.0.3
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-76-generic x86_64)

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

Last login: Fri Jan 31 15:37:32 2020 from 172.17.0.1
root@cbb3b3931412:~#
```

c Install required Softwares in management and target servers

1. Install Ansible in Management Server using below commands in Ubuntu 16.04

URL: https://docs.ansible.com/ansible/latest/installation_guide/intro_installation.html

```
$ sudo apt update
```

```
$ sudo apt install software-properties-common
```

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

```
$ sudo apt install ansible
```

2. Install Python 3 in Target Servers using below commands:

```
RUN apt-get update \
```

```
&& apt-get install -y python3-pip python3-dev \
```

```
&& cd /usr/local/bin \
```

```
&& ln -s /usr/bin/python3 python \
```

```
&& pip3 install --upgrade pip
```


Inventory file

A hosts/Inventory file consists of host groups and hosts within those groups.

```
root@ubuntu:/etc/ansible# cat hosts
[dev]
172.17.0.2
[qa]
172.17.0.3
```

Adhoc Commands: About Management Server and Client Servers:

1. check the connection from management to target servers

```
root@ubuntu:~# ansible -m ping all
172.17.0.2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
172.17.0.3 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
root@ubuntu:~#
```

2. Ping only one server:

```
root@ubuntu:~# ansible -m ping 172.17.0.2
172.17.0.2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
root@ubuntu:~#
```

3. Ping a specific group

```
root@ubuntu:~# ansible -m ping qa
172.17.0.3 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
root@ubuntu:~#
```

4. Get the facts of the target server

```
root@ubuntu:~# ansible 172.17.0.2 -m setup --tree /tmp/facts
172.17.0.2 | SUCCESS => {
  "ansible_facts": {
    "ansible_all_ipv4_addresses": [
      "172.17.0.2"
    ],
    "ansible_all_ipv6_addresses": [],
    "ansible_apparmor": {
      "status": "disabled"
    },
    "ansible_architecture": "x86_64",
    "ansible_bios_date": "07/02/2015",
    "ansible_bios_version": "6.00",
    "ansible_cmdline": {
      "BOOT_IMAGE": "/boot/vmlinuz-4.15.0-76-generic",
      "auto": true,
      "find_preseed": "/preseed.cfg",
      "locale": "en_US",
      "noprompt": true,
      "priority": "critical",
      "quiet": true,
      "ro": true,
      "root": "UUID=253ec954-d82e-4d48-ae8d-b937773189f5"
    },
    "ansible_date_time": {
      "date": "2020-02-08",
      "day": "08"
```

Also, it will generate the facts file at /tmp/facts

```
root@ubuntu:/tmp/facts# ls -ltra
total 24
-rw-r--r--  1 root root 12345 Feb  7 22:58 172.17.0.2
drwxrwxrwt 13 root root  4096 Feb  7 22:58 .
drwxr-xr-x  2 root root  4096 Feb  7 22:58 ..
root@ubuntu:/tmp/facts#
```

Adhoc commands: Module Setup-Filter

```
root@ubuntu:/tmp/facts# ansible all -m setup -a 'filter=*.ipv4'
172.17.0.2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false
}
172.17.0.3 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false
}
root@ubuntu:/tmp/facts#
```

ADHOC COMMANDS: Lists files and folders

```
root@ubuntu:/tmp/facts# ansible all -a "ls -l /etc/ssh/sshd_config"
172.17.0.2 | CHANGED | rc=0 >>
-rw-r--r-- 1 root root 2529 Jan 18 11:51 /etc/ssh/sshd_config

172.17.0.3 | CHANGED | rc=0 >>
-rw-r--r-- 1 root root 2529 Jan 18 11:49 /etc/ssh/sshd_config

root@ubuntu:/tmp/facts#
```

1. Cat a file

```
root@ubuntu:/tmp/facts# ansible all -a "cat /root/sample.txt"
172.17.0.2 | CHANGED | rc=0 >>
Gamut Gurus---Ansible Session

172.17.0.3 | CHANGED | rc=0 >>
Hello!

root@ubuntu:/tmp/facts#
```

2. Copy a file from control server to target servers

```
root@ubuntu:~/ansible_demo# ansible all -m copy -a "src=testfile.txt dest=/var/tmp/"
172.17.0.2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "checksum": "07499c8c990eb8b03ae9bf9fed965a3efccec1cc",
  "dest": "/var/tmp/testfile.txt",
  "gid": 0,
  "group": "root",
  "md5sum": "e1d40457c4ff17c7889e110bececcd8c",
  "mode": "0644",
  "owner": "root",
  "size": 29,
  "src": "/root/.ansible/tmp/ansible-tmp-1581146200.96-126302448324699/source",
  "state": "file",
  "uid": 0
}
172.17.0.3 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "checksum": "07499c8c990eb8b03ae9bf9fed965a3efccec1cc",
  "dest": "/var/tmp/testfile.txt",
  "gid": 0,
  "group": "root",
  "md5sum": "e1d40457c4ff17c7889e110bececcd8c",
  "mode": "0644",
  "owner": "root",
  "size": 29,
  "src": "/root/.ansible/tmp/ansible-tmp-1581146200.92-104264747874316/source",
  "state": "file",
  "uid": 0
}
root@ubuntu:~/ansible_demo#
```

```
root@ubuntu:~/ansible_demo# ansible all -a "cat /var/tmp/testfile.txt"
172.17.0.2 | CHANGED | rc=0 >>
Hello this is a test file...

172.17.0.3 | CHANGED | rc=0 >>
Hello this is a test file...

root@ubuntu:~/ansible_demo#
```

Adhoc commands: Module Package- APT

ad-hoc task to install, update, or remove packages on managed nodes using a package management module like apt. To ensure a package is installed without updating it:

```
$ ansible all -m apt -a "name=git state=latest"
```

```
root@ubuntu:~/weekday_gamut/playbooks# ansible all -m apt -a "name=git state=latest"
172.17.0.3 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "cache_update_time": 1579789965,
  "cache_updated": false,
  "changed": false
}
172.17.0.2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "cache_update_time": 1580483447,
  "cache_updated": false,
  "changed": false
}
root@ubuntu:~/weekday_gamut/playbooks#
```

To ensure a package is not installed:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible all -m apt -a "name=git state=absent"
172.17.0.2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "stderr": "",
  "stderr_lines": [],
  "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nThe following packages were automatically installed and are no longer required:\n  git-man less libcurl3-gnutls liberror-perl libpopt0 librtmp1 rsync\nUse 'apt autoremove' to remove them.\n0 upgraded, 0 newly installed, 1 to remove and 14 not upgraded.\nAfter this operation, 24.1 MB disk space will be freed.\nReading database ... 5%\r(Reading database ... 10%\r(Reading database ... 15%\r(Reading database ... 20%\r(Reading database ... 25%\r(Reading database ... 30%\r(Reading database ... 35%\r(Reading database ... 40%\r(Reading database ... 45%\r(Reading database ... 50%\r(Reading database ... 55%\r(Reading database ... 60%\r(Reading database ... 65%\r(Reading database ... 70%\r(Reading database ... 75%\r(Reading database ... 80%\r(Reading database ... 85%\r(Reading database ... 90%\r(Reading database ... 95%\r(Reading database ... 100%\r(Reading database ... 21377 files and directories currently installed.)\nroot@ubuntu:~/weekday_gamut/playbooks#
```

Adhoc commands: Managing users and groups



<https://www.wiculy.com/>

You can create, manage, and remove user accounts on your managed nodes with ad-hoc tasks:

ansible all -m user -a "name=ansi password=1234"

```
root@ubuntu:~/weekday_gamut/playbooks# ansible all -m user -a "name=ansi password=1234"
[WARNING]: The input password appears not to have been hashed. The 'password' argument must be encrypted for this module to work properly.

172.17.0.3 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "comment": "",
  "create_home": true,
  "group": 1005,
  "home": "/home/ansi",
  "name": "ansi",
  "password": "NOT_LOGGING_PASSWORD",
  "shell": "",
  "state": "present",
  "system": false,
  "uid": 1005
}
172.17.0.2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "comment": "",
  "create_home": true,
  "group": 1000,
  "home": "/home/ansi",
  "name": "ansi",
  "password": "NOT_LOGGING_PASSWORD",
  "shell": "",
  "state": "present",
  "system": false,
  "uid": 1000
}
root@ubuntu:~/weekday_gamut/playbooks#
```

To remove the user -

ansible all -m user -a "name=ansi state=absent"

```
root@ubuntu:~/weekday_gamut/playbooks# ansible all -m user -a "name=ansi state=absent"
172.17.0.2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "force": false,
  "name": "ansi",
  "remove": false,
  "state": "absent"
}
172.17.0.3 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "force": false,
  "name": "ansi",
  "remove": false,
  "state": "absent"
}
root@ubuntu:~/weekday_gamut/playbooks#
```

Playbooks

Playbooks can be used to manage configurations of and deployments to remote machines.

Playbook 1: Write a playbook to install package “tree” and check the version in remote/target servers

```
root@ubuntu:~/weekday_gamut/playbooks# cat 1_treePkgInstall.yml
---
- hosts: all
  tasks:
    - name: Intall the tree package
      apt:
        name: tree
        state: present
    - name: check the package version
      command: 'tree --version'
root@ubuntu:~/weekday_gamut/playbooks#
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 1_treePkgInstall.yml

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

TASK [Intall the tree package] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

TASK [check the package version] *****
changed: [172.17.0.2]
changed: [172.17.0.3]

PLAY RECAP *****
172.17.0.2      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Playbook 2: Write a playbook to copy a file to remote servers from Management server

```
root@ubuntu:~/weekday_gamut/playbooks# cat 2_copyfile.yml
---
- hosts: all
  tasks:
    - name: copying gamutgurus.war file to target servers
      copy: src=/root/weekday_gamut/playbooks/gamutgurus.war dest=/tmp/tomcat/
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 2_copyfile.yml

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

TASK [copying gamutgurus.war file to target servers] *****
changed: [172.17.0.3]
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Playbook 3: Declare variables in a playbook

```
root@ubuntu:~/weekday_gamut/playbooks# cat 3_variableDeclare.yml
---
- hosts: all
  vars:
    srcpath: /root/weekday_gamut/playbooks/gamutgurus.war
    destpath: /tmp/tomcat/vars/
  tasks:
    - name: copying gamutgurus.war file to target servers
      copy: src={{ srcpath }} dest={{ destpath }}
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 3_variableDeclare.yml
PLAY [all] *****

TASK [Gathering Facts] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

TASK [copying gamutgurus.war file to target servers] *****
changed: [172.17.0.3]
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ubuntu:~/weekday_gamut/playbooks#
```

Playbook 4: Defining/calling “vars” files in a playbook

```
root@ubuntu:~/weekday_gamut/playbooks# cat vars.yml
srcpath: /root/weekday_gamut/playbooks/gamutgurus.war
destpath: /tmp/tomcat/vars/
```

```
root@ubuntu:~/weekday_gamut/playbooks# cat 4_callVarsFile.yml
---
- hosts: all
  vars_files:
    - vars.yml
  tasks:
    - name: copying gamutgurus.war file to target servers
      copy: src={{ srcpath }} dest={{ destpath }}
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 4_callVarsFile.yml
PLAY [all] *****

TASK [Gathering Facts] *****
ok: [172.17.0.3]
ok: [172.17.0.2]

TASK [copying gamutgurus.war file to target servers] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

PLAY RECAP *****
172.17.0.2      : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```


Playbook 5: Write a playbook to update the packages and install “git” package

```
root@ubuntu:~/weekday_gamut/playbooks# cat 5_installUpdateGit.yml
---
- hosts: all
  tasks:
    - name: Intall Git packages
      apt:
        name: git
        state: present
        update_cache: true
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 5_installUpdateGit.yml

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [172.17.0.3]
ok: [172.17.0.2]

TASK [Intall Git packages] *****
changed: [172.17.0.3]
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Playbook 6: Target Section

```
root@ubuntu:~/weekday_gamut/playbooks# cat 6_targetSection.yml
---
- hosts: all
  user: root
  connection: ssh
  become: yes
  gather_facts: no
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 6_targetSection.yml

PLAY [all] *****

PLAY RECAP *****
root@ubuntu:~/weekday_gamut/playbooks# █
```

Playbook 7: tasks Section


```
root@ubuntu:~/weekday_gamut/playbooks# cat 7_taskSection.yml
---
- hosts: 172.17.0.2
  user: root
  become: yes
  connection: ssh
  gather_facts: no
  vars:
    packagename: apache2
  tasks:
    - name: updating the packages
      apt: update_cache=yes
    - name: installing apache2
      apt: name={{ packagename }} state=present
    - name: start the {{ packagename }} server
      service: name={{ packagename }} state=started
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 7_taskSection.yml
PLAY [172.17.0.2] *****
TASK [updating the packages] *****
changed: [172.17.0.2]
TASK [installing apache2] *****
ok: [172.17.0.2]
TASK [start the apache2 server] *****
changed: [172.17.0.2]
PLAY RECAP *****
172.17.0.2          : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Playbook 8: Handler Section

```
root@ubuntu:~/weekday_gamut/playbooks# cat 8_handlerSection.yml
---
- hosts: 172.17.0.3
  user: root
  become: yes
  connection: ssh
  gather_facts: no
  vars:
    packagename: apache2
  tasks:
    - name: updating the packages
      apt: update_cache=yes
    - name: installing apache2
      apt: name={{ packagename }} state=present
      notify: restartserver
  handlers:
    - name: restartserver
      service: name={{ packagename }} state=restarted
root@ubuntu:~/weekday_gamut/playbooks# █
```

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 8_handlerSection.yml
PLAY [172.17.0.3] *****
TASK [updating the packages] *****
ok: [172.17.0.3]
TASK [installing apache2] *****
ok: [172.17.0.3]
PLAY RECAP *****
172.17.0.3 : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
root@ubuntu:~/weekday_gamut/playbooks#
```

Playbook 9: date/time stamp and debug

```
root@ubuntu:~/weekday_gamut/playbooks# cat 9_dateTimestamp.yml
---
- hosts: 172.17.0.3
  user: root
  become: yes
  connection: ssh
  gather_facts: no
  vars:
    packagename: apache2
  tasks:
    - name: date/timestamp for when playbook starts
      command: date
      register: timestamp_start
    - debug: var=timestamp_start
    - name: updating the packages
      apt: update_cache=yes
    - name: installing apache2
      apt: name={{ packagename }} state=present
      notify: restartserver
    - name: date/timestamp for when playbook ends
      command: date
      register: timestamp_ends
    - debug: var=timestamp_ends
  handlers:
    - name: restartserver
      service: name={{ packagename }} state=restarted
root@ubuntu:~/weekday_gamut/playbooks#
```



<https://www.wiculy.com/>

Execution:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 9_dateTimestamp.yml

PLAY [172.17.0.3] *****

TASK [date/timestamp for when playbook starts] *****
changed: [172.17.0.3]

TASK [debug] *****
ok: [172.17.0.3] => {
  "timestamp_start": {
    "ansible_facts": {
      "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "cmd": [
      "date"
    ],
    "delta": "0:00:00.035999",
    "end": "2020-02-10 13:21:18.978219",
    "failed": false,
    "rc": 0,
    "start": "2020-02-10 13:21:18.942220",
    "stderr": "",
    "stderr_lines": [],
    "stdout": "Mon Feb 10 13:21:18 UTC 2020",
    "stdout_lines": [
      "Mon Feb 10 13:21:18 UTC 2020"
    ]
  }
}

TASK [updating the packages] *****
ok: [172.17.0.3]

TASK [installing apache2] *****
ok: [172.17.0.3]

TASK [date/timestamp for when playbook ends] *****
changed: [172.17.0.3]

TASK [debug] *****
ok: [172.17.0.3] => {
  "timestamp_ends": {
    "changed": true,
    "cmd": [
      "date"
    ],
    "delta": "0:00:00.004155",
    "end": "2020-02-10 13:21:37.905836",
    "failed": false,
    "rc": 0,
    "start": "2020-02-10 13:21:37.901681",
    "stderr": "",
    "stderr_lines": [],
    "stdout": "Mon Feb 10 13:21:37 UTC 2020",
    "stdout_lines": [
      "Mon Feb 10 13:21:37 UTC 2020"
    ]
  }
}

PLAY RECAP *****
172.17.0.3                : ok=6    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Playbook 10: Create list of users in a target/remote servers using loops concept

```
root@ubuntu:~/weekday_gamut/playbooks# cat 10_loops_createUsers.yml
---
- hosts: 172.17.0.2
  user: root
  connection: ssh
  gather_facts: no
  tasks:
    - name: create list of users
      user: name=[{ item }] state=present
      with_items:
        - user1
        - user2
        - user3
        - user4
        - user5
root@ubuntu:~/weekday_gamut/playbooks#
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 10_loops_createUsers.yml
PLAY [172.17.0.2] *****
TASK [create list of users] *****
changed: [172.17.0.2] => (item=user1)
changed: [172.17.0.2] => (item=user2)
changed: [172.17.0.2] => (item=user3)
changed: [172.17.0.2] => (item=user4)
changed: [172.17.0.2] => (item=user5)
PLAY RECAP *****
172.17.0.2 : ok=1 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
root@ubuntu:~/weekday_gamut/playbooks#
```

Playbook 11: Delete a list of users in a target/remote servers using loops concept

```
root@ubuntu:~/weekday_gamut/playbooks# cat 11_loops_deleteUsers.yml
---
- hosts: 172.17.0.2
  user: root
  connection: ssh
  gather_facts: no
  tasks:
    - name: create list of users
      user: name=[{ item }] state=absent
      with_items:
        - user1
        - user2
        - user3
        - user4
        - user5
root@ubuntu:~/weekday_gamut/playbooks#
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 11_loops_deleteUsers.yml

PLAY [172.17.0.2] *****

TASK [create list of users] *****
changed: [172.17.0.2] => (item=user1)
changed: [172.17.0.2] => (item=user2)
changed: [172.17.0.2] => (item=user3)
changed: [172.17.0.2] => (item=user4)
changed: [172.17.0.2] => (item=user5)

PLAY RECAP *****
172.17.0.2 : ok=1 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

root@ubuntu:~/weekday_gamut/playbooks#
```

Playbook 12: Install list of packages using loops concepts

```
root@ubuntu:~/weekday_gamut/playbooks# cat 12_loops_installpkgs.yml
---
- hosts: 172.17.0.2
  user: root
  connection: ssh
  gather_facts: no
  tasks:
  - name: install pakgs
    apt: name={{ item }} update_cache=yes state=present
    with_items:
    - git
    - nano
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 12_loops_installpkgs.yml

PLAY [172.17.0.2] *****

TASK [install pakgs] *****
[DEPRECATION WARNING]: Invoking "apt" only once while using a loop via squash_actions is deprecated. Instead of using a loop to supply multiple items and specifying 'name: "{{ item }}"', please use 'name: ['git', 'nano']' and remove the loop. This feature will be removed in version 2.11. Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.
ok: [172.17.0.2] => (item=[u'git', u'nano'])

PLAY RECAP *****
172.17.0.2 : ok=1 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

root@ubuntu:~/weekday_gamut/playbooks#
```

Playbook 13: Create User in target/remote server

```
root@ubuntu:~/weekday_gamut/playbooks# cat 13_createUser.yml
---
- hosts: all
  user: root
  connection: ssh
  gather_facts: no
  tasks:
  - name: create user
    user: name=user1 state=present

root@ubuntu:~/weekday_gamut/playbooks#
```

Execute:

```

root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 13_createUser.yml

PLAY [all] *****

TASK [create user] *****
ok: [172.17.0.3]
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2      : ok=1    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=1    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ubuntu:~/weekday_gamut/playbooks# █

```

Playbook 14: Check the condition of OS family and install the package using appropriate module

```

root@ubuntu:~/weekday_gamut/playbooks# cat 14_conditions.yml
---
- hosts: all
  gather_facts: yes
  tasks:
    - name: install package appropriate to distribution debian/ubuntu
      command: apt-get -y install git
      when: ansible_os_family == "Debian"
    - name: install package appropriate to distribution redhat/centos
      command: yum -y install git
      when: ansible_os_family == "Redhat"

root@ubuntu:~/weekday_gamut/playbooks#

```

Execute:

```

root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 14_conditions.yml

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [172.17.0.3]
ok: [172.17.0.2]

TASK [install package appropriate to distribution debian/ubuntu] *****
[WARNING]: Consider using the apt module rather than running 'apt-get'. If you need to use command because apt is insufficient you can add 'warn: false' to this
command task or set 'command_warnings=False' in ansible.cfg to get rid of this message.
changed: [172.17.0.2]
changed: [172.17.0.3]

TASK [install package appropriate to distribution redhat/centos] *****
skipping: [172.17.0.3]
skipping: [172.17.0.2]

PLAY RECAP *****
172.17.0.2      : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0

root@ubuntu:~/weekday_gamut/playbooks# █

```

Activate Windows
Go to Settings to activate Windows.

Playbook 15: Error Handling

```
root@ubuntu:~/weekday_gamut/playbooks# cat 15_error_handling.yml
---
- hosts: all
  user: root
  connection: ssh
  become: yes
  gather_facts: no
  tasks:
    - name: update the packages
      apt: update_cache=yes
    - name: install the packages telnet
      shell: apt-get install -y telnet
    - name: cat the log file
      command: cat telnet.log
      ignore_errors: yes
    - name: check the installed path
      raw: which telnet
      register: resultlog
    - debug: var=resultlog

root@ubuntu:~/weekday_gamut/playbooks#
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 15_error_handling.yml

PLAY [all] *****

TASK [update the packages] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

TASK [install the packages telnet] *****
[WARNING]: Consider using the apt module rather than running 'apt-get'. If you need to use command because apt is insufficient you can add 'warn: false' to this command task or set 'command_warnings=False' in ansible.cfg to get rid of this message.
changed: [172.17.0.3]
changed: [172.17.0.2]

TASK [cat the log file] *****
fatal: [172.17.0.3]: FAILED! => ("changed": true, "cmd": ["cat", "telnet.log"], "delta": "0:00:00.008545", "end": "2020-02-10 13:52:50.791861", "msg": "non-zero return code", "rc": 1, "start": "2020-02-10 13:52:50.783316", "stderr": "cat: telnet.log: No such file or directory", "stderr_lines": ["cat: telnet.log: No such file or directory"], "stdout": "", "stdout_lines": [])
...ignoring
fatal: [172.17.0.2]: FAILED! => ("changed": true, "cmd": ["cat", "telnet.log"], "delta": "0:00:00.005470", "end": "2020-02-10 13:52:50.876785", "msg": "non-zero return code", "rc": 1, "start": "2020-02-10 13:52:50.871315", "stderr": "cat: telnet.log: No such file or directory", "stderr_lines": ["cat: telnet.log: No such file or directory"], "stdout": "", "stdout_lines": [])
...ignoring

TASK [check the installed path] *****
changed: [172.17.0.3]
changed: [172.17.0.2]

TASK [debug] *****
ok: [172.17.0.3] => {
  "resultlog": {
    "changed": true,
    "failed": false,
    "rc": 0,
    "stderr": "Shared connection to 172.17.0.3 closed.\r\n",
    "stderr_lines": [
      "Shared connection to 172.17.0.3 closed."
    ],
    "stdout": "/usr/bin/telnet\r\n",
    "stdout_lines": [
      "/usr/bin/telnet"
    ]
  }
}
ok: [172.17.0.2] => {
  "resultlog": {
    "changed": true,
    "failed": false,
    "rc": 0,
    "stderr": "Shared connection to 172.17.0.2 closed.\r\n",
    "stderr_lines": [
      "Shared connection to 172.17.0.2 closed."
    ],
    "stdout": "/usr/bin/telnet\r\n",
    "stdout_lines": [
      "/usr/bin/telnet"
    ]
  }
}

PLAY RECAP *****
172.17.0.2      : ok=5    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=1
172.17.0.3      : ok=5    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=1

root@ubuntu:~/weekday_gamut/playbooks#
```


Playbook 16: Vault

Encrypted File:secure.yml

```
root@ubuntu:~/weekday_gamut/playbooks# cat secure.yml
$ANSIBLE_VAULT;1.1;AES256
62336466623636646438373063383935346234653732303433663432343066633437636238663032
6464333233613131643135363630666235303333653364620a363432383761363932303137613230
39326638313864393965356434623636626130623063386565613930326663323238376335363666
6638613134393462340a346561653036313434633635383738303939363130303463373436616562
32313337386539653832376538643434616332353632336164346233343239326362
root@ubuntu:~/weekday_gamut/playbooks#
```

```
root@ubuntu:~/weekday_gamut/playbooks# cat 16_vaultdemoq.yml
---
- hosts: all
  vars_files:
  - secure.yml
  tasks:
  - name: creating a file
    command: touch {{ filename }}
root@ubuntu:~/weekday_gamut/playbooks#
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 16_vaultdemoq.yml --ask-vault-pass
Vault password:

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

TASK [Gathering Facts] *********************************************************
ok: [172.17.0.3]
ok: [172.17.0.2]

TASK [creating a file] *********************************************************
[WARNING]: consider using the file module with state=touch rather than running 'touch'. If you need to use command because file is insufficient you can add
'warn: false' to this command task or set 'command_warnings=False' in ansible.cfg to get rid of this message.
changed: [172.17.0.2]
changed: [172.17.0.3]

PLAY RECAP *********************************************************************
172.17.0.2      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ubuntu:~/weekday_gamut/playbooks#
```

Playbook: 17 – Prompt


```
root@ubuntu:~/weekday_gamut/playbooks# cat 17_prompt.yml
---
- hosts: all
  user: root
  become: yes
  connection: ssh
  gather_facts: no
  vars_prompt:
    - name: packtoinstall
      prompt: Please enter the package name to install?
      default: tree
      private: no
  tasks:
    - name: install the package
      apt: pkg=[{ packtoinstall }] state=present
      register: resultlog
    - debug: var=resultlog
root@ubuntu:~/weekday_gamut/playbooks#
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks# ansible-playbook 17_prompt.yml
Please enter the package name to install? [tree]: git

PLAY [all] *****

TASK [install the package] *****
ok: [172.17.0.3]
ok: [172.17.0.2]

TASK [debug] *****
ok: [172.17.0.3] => {
  "resultlog": {
    "ansible_facts": {
      "discovered_interpreter_python": "/usr/bin/python3"
    },
    "cache_update_time": 1581340325,
    "cache_updated": false,
    "changed": false,
    "failed": false
  }
}
ok: [172.17.0.2] => {
  "resultlog": {
    "ansible_facts": {
      "discovered_interpreter_python": "/usr/bin/python3"
    },
    "cache_update_time": 1581342050,
    "cache_updated": false,
    "changed": false,
    "failed": false
  }
}

PLAY RECAP *****
172.17.0.2      : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Includes:

```
root@ubuntu:~/weekday_gamut/playbooks/includes# tree
.
├── files
├── handlers
│   └── handlers.yml
├── master.yml
├── packages
│   └── package.yml
└── vars
    └── vars.yml

4 directories, 4 files
root@ubuntu:~/weekday_gamut/playbooks/includes# cat handlers/handlers.yml
- name: restartserver
  service: name={{ packagename }} state=restarted

root@ubuntu:~/weekday_gamut/playbooks/includes# cat packages/package.yml
- name: updating the packages
  apt: update_cache=yes
- name: installing apache2
  apt: name={{ packagename }} state=present
  notify: restartserver
root@ubuntu:~/weekday_gamut/playbooks/includes# cat vars/vars.yml
packagename: apache2
root@ubuntu:~/weekday_gamut/playbooks/includes# cat master.yml
---
- hosts: all
  user: root
  connection: ssh
  become: yes
  gather_facts: no
  vars_files:
    - vars/vars.yml
  tasks:
    - include: packages/package.yml
  handlers:
    - include: handlers/handlers.yml
```

Execute:

```
root@ubuntu:~/weekday_gamut/playbooks/includes# ansible-playbook master.yml

PLAY [all] *****

TASK [updating the packages] *****
ok: [172.17.0.3]
changed: [172.17.0.2]

TASK [installing apache2] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

PLAY RECAP *****
172.17.0.2      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ubuntu:~/weekday_gamut/playbooks/includes# █
```

Roles: Create a role nginx

```
root@ubuntu:~/weekday_gamut/playbooks/roles# ansible-galaxy init nginx --offline
- Role nginx was created successfully
root@ubuntu:~/weekday_gamut/playbooks/roles#
```

```
root@ubuntu:~/weekday_gamut/playbooks/roles# tree
```

```
.
├── master.yml
└── nginx
    ├── defaults
    │   └── main.yml
    ├── files
    │   └── gamutgurus.html
    ├── handlers
    │   └── main.yml
    ├── meta
    │   └── main.yml
    ├── README.md
    ├── tasks
    │   └── main.yml
    ├── templates
    ├── tests
    │   ├── inventory
    │   └── test.yml
    └── vars
        └── main.yml
```

```
9 directories, 10 files
```

```
root@ubuntu:~/weekday_gamut/playbooks/roles# cat nginx/tasks/main.yml
```

```
---
# tasks file for nginx
- name: install the package
  apt: name=nginx state=present
  notify: restartnginx
- name: deploy gamutgurus.html in nginx
  copy: src=files/gamutgurus.html dest=/var/www/html/gamutgurus.html
  notify: restartnginx
root@ubuntu:~/weekday_gamut/playbooks/roles# cat nginx/handlers/main.yml
```

```
---
# handlers file for nginx
- name: restartnginx
  service: name=nginx state=restarted
```

```
root@ubuntu:~/weekday_gamut/playbooks/roles# cat master.yml
```

```
---
- hosts: all
  user: root
  connection: ssh
  become: yes
  gather_facts: no
  roles:
    - nginx
root@ubuntu:~/weekday_gamut/playbooks/roles#
```

Execute:



<https://www.wiculy.com/>

```
root@ubuntu:~/weekday_gamut/playbooks/roles# ansible-playbook master.yml

PLAY [all] *****

TASK [nginx : install the pacakge] *****
ok: [172.17.0.3]
ok: [172.17.0.2]

TASK [nginx : deploy gamutgurus.html in nginx] *****
ok: [172.17.0.2]
ok: [172.17.0.3]

PLAY RECAP *****
172.17.0.2      : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.17.0.3      : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Thank You All...