

# [day-16] Ansible - Playbooks, Playbook ①

→ hosts: all  
max\_fail\_percentage: 1  
serial:

install data on first 5%  
then 30% then another  
50%

\* playbook / apache.yml.  
tasks:

- name:  
when: ansible\_distribution == 'Linux'

→ [Facts]

case-sensitive

> ansible all -m setup | grep Ubuntu → (will search  
"ansible\_distribution" == "ubuntu" (will search  
Ubuntu keyword  
in Facts)

\* docker.yml → to setup env. ansible.

\* docker module container

\* nginx.yml →

tasks:

- apt

-

- service

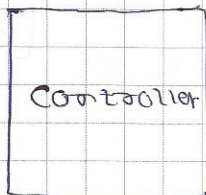
↳ state:

Prod. Range Config.

\* Labs | ansible | playbooks

( Roles )

> AWS  
cli  
> boto



→ Create an instance.  
→ connectivity

1. how ansible connects to your aws account?  
2. Authentication?

↳ is Ravi allowed to make  
changes?

\* Ansible + ec2.txt

pip - python package manager.

\* Pip install awscli ( AWS command )

" " boto ( check AWS installed )

> AWS --version.  
awscli / 1.0

> AWS - Account

↓ how AWS authenticates?

AWSCLI >

Services > Security, Identity

→ adding  
users & their  
Specific Roles.

↳ IAM (identity, access)  
- access to team-member  
or friends

→ Add Roles.

> Add user → username = ravi







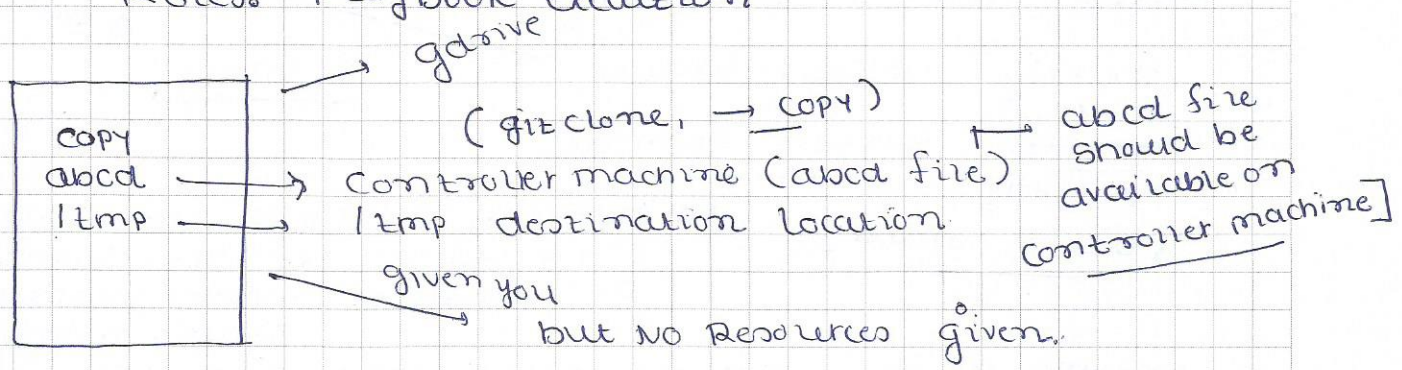
\* GDrive → playbooks (Run them in order)

\* Ansible Roles:

Ad-Hoc : one Liner

Play-Book : set of Instructions → [like shell scripting Linux]

Roles: Playbook execution



- copy .war file
- copy dependencies & all.

→ Completion package of task executions (Ansible Roles)

\* Package Complete - Ansible Roles. (Abcd file with executions)

> Roles - convert to Roles & share with Friends

labs ... / ansible / Roles! ... (everything inside Roles)

Roles: Set up folders.

> Roles: Further Level abstractions (Very minimal playbook creations)

> write Files → put on default files Folder.

files: → where files located

meta: : basic information

template:

tasks: - write all your playbook contents

vars: Vars Folders. (all variables)

{ Roles is a set of folders }

→ make minimal conf. file (Rather than writing everything one file)

↳ what you want to execute.

\* tomcat → files - whatever you need

tasks - main.yml (install java)

- group
- Download tomcat

copy:

→ / ansible / roles (how to execute them)

more tomcat-role.yml

src: files (files Folder)

roles:

- tomcat



> install java  
Running Handler:

using ansible, you can  
deploy docker container

lab01 ansible: # → variables  
- files  
- tasks

> Role: finish in everything in a Role. [write once & call it 5 times]

> notify: restart tomcat.

5 times

> handler: Restart tomcat

nothing

{but a handler}

↳ handler (method execution)

- name: restart tomcat

service: name: tomcat

state: started.

> ansible-galaxy: get pre-defined Roles. (like github,

(mongodb installation)

> ansible-galaxy init role init ravi

> ls -l

> ad-hoc files  
install tasks  
playbooks

\* template: execute playbook on 5-machines

IP1  
Ravi

IP2  
Ramkri

IP3  
Vijay

IP4  
Paramarth

(ginja-  
Concept.)

> templat-ym.

↑

src: config.j2 (ginja template)

config.j2  
name: ss

yy

dynamic concepts

\* Ansible-tower (UI based) [4gb min.]

\* [SSL (Secure socket layer)] \* Puppet \* [Agent must Run, if not working, then no data fetch possible]

> Config. manage. tool. (different Brand brand)

> working model:

→ write  
all code in  
master

{manifest

puppet  
Master  
(controller)

Master & pull 2  
Manifest  
file  
(every 30 minute)  
Certificates  
in puppet

Agent  
P1  
Agent  
P2

puppet nodes  
or Agents.  
(execute)

puppet vs ansible  
Ruby = python