MOBILE: +91 9848363431 MAIL: Rnraju4u@gmail.com **YOUTUBE: SYSGEEKS**

ANSIBLE INSTALLATION

- Ansible is an **agentless automation tool** that you install on a single host (**control node**).
- Control node can manage an entire fleet of machines and other devices (**managed nodes**) remotely with **SSH, PowerShell** remoting, and numerous other transports, all from a simple command-line interface with no databases or daemons required.

CONTROL NODE REQUIREMENTS:

- UNIX-like machine with **Python 3.9** or newer installed.
- Windows under a Windows Subsystem for Linux (WSL) distribution.

MANAGED NODE REQUIREMENTS:

- Does not require Ansible to be installed, but requires Python 2.7, or 3.5 - 3.11 to run Ansible **library code.**
- The managed node also needs a **user account** that can SSH to the node with an interactive **POSIX shell.**

INSTALLING ON AWS EC2-RHEL9

STEP 1: Launching 3 RHEL9 Servers

In SG: SSH-22

Add Boot Strap: #!/bin/bash

yum update -y

yum install vim net-tools -y

STEP 2: Connect Instances with Putty or MobaXterm or Win Terminal

MASTER (CONTROL-NODE) SETUP:

STEP1: Setting up Hostname.

#hostname Master

#vim /etc/hostname

Master

STEP2: Mapping Hostname to IP-Address

#vim /etc/hosts

172.31.1.200 Master

172.31.2.101 Node1

172.31.3.102 Node2

STEP3: Update Hostname

#bash

STEP4: Changing SSH Configuration

#vim /etc/ssh/sshd_config

PasswordAuthentication yes

#systemctl restart sshd

STEP5: Create a Normal User

#useradd raju

#passwd raju

STEP6: Setting SUDO Configuration for user raju

#visudo or #vim /etc/sudoers

raju ALL=(ALL) NOPASSWD: ALL

STEP7: Setting Password less Authentication for user raju

#su - raju

$ssh-keygen

$cd ~/.ssh

$ls

$ssh-copy-id raju@Agent1

$ssh-copy-id raju@Agent2

$ssh raju@Agent1

$exit

$ssh raju@Agent2

$exit

STEP8: Setting Extra Packages for Enterprise Linux (EPEL) repository

$sudo yum install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm

(or)

$sudo dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-9.noarch.rpm

STEP9: Installing Ansible Package

$sudo yum update -y

$sudo yum repolist

$sudo yum install ansible -y

$ansible --version

STEP10: Changing Host File Permissions

$cd /etc/ansible

$ls -l

$sudo chmod 777 hosts

NODE1 SETUP:

STEP1: Setting up Hostname

#hostname Node1

#vim /etc/hostname

Node1

STEP2: Mapping Hostname to IP-Address

#vim /etc/hosts

172.31.2.101 Node1

172.31.1.200 Master

STEP3: Update Hostname

#bash

STEP4: Changing SSH Configuration

#vim /etc/ssh/sshd_config

PasswordAuthentication yes

#systemctl restart sshd

STEP5: Create a Normal User

#useradd raju

#passwd raju

STEP6: Setting SUDO Configuration for user raju

#visudo or #vim /etc/sudoers

raju ALL=(ALL) NOPASSWD: ALL

NODE2 SETUP:

STEP1: Setting up Hostname

#hostname Node2

#vim /etc/hostname

Node2

STEP2: Mapping Hostname to IP-Address

#vim /etc/hosts

172.31.2.101 Node2

172.31.1.200 Master

STEP3: Update Hostname

#bash

STEP4: Changing SSH Configuration

#vim /etc/ssh/sshd_config

PasswordAuthentication yes

#systemctl restart sshd

STEP5: Create a Normal User

#useradd raju

#passwd raju

STEP6: Setting SUDO Configuration for user raju

#visudo or #vim /etc/sudoers

raju ALL=(ALL) NOPASSWD: ALL