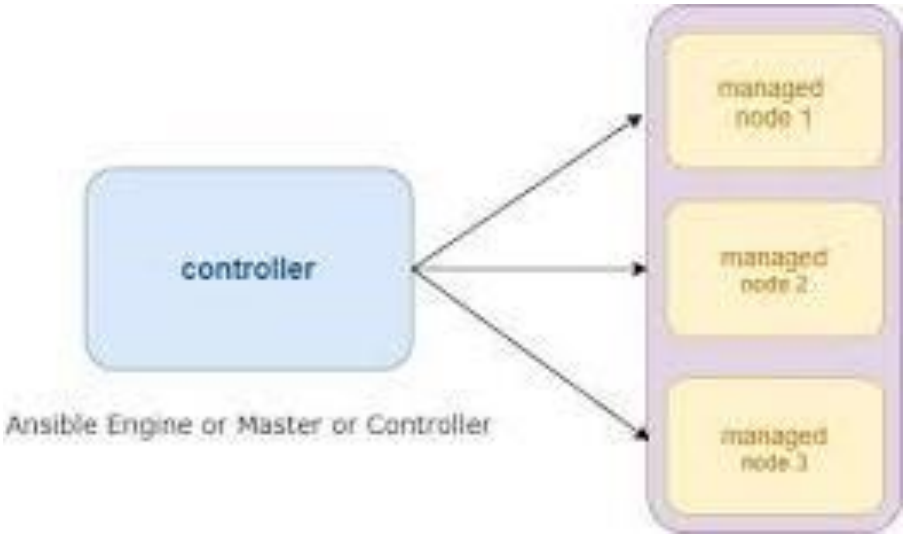
➢ ANSIBLE INSTALLATION:

- 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.**

❖ ANSIBLE SET-UP ON AWS EC2 (RHEL9):

Launching 3 Instances with boot strapping

#!/bin/bash

yum update -y

yum install vim net-tools -y

Setting Hostnames: (Setup For All Instances)

#hostname Master (Control Node)

#hostname Node1

#hostname Node2

#vi /etc/hostname : Adding hostnames for permanent

#bash [Update hostnames]

Resolving Ip To Hostnames:

#vi /etc/hosts

10.10.10.50 Master

10.10.10.51 Node1

10.10.10.52 Node2

Creating a Normal user:

#useradd ram

#passwd ram

settingup sudo privileges:

#visudo

ram ALL=(ALL) NOPASSWD: ALL

Settingup passwordless login for user raju:

#su - ram (from master)

$ssh-keygen

$cd ~/.ssh

$ls

$ssh-copy-id ram@Node1

$ssh-copy-id ram@Node2

Connection Test without password:

$ssh ram@Node1

$ssh ram@Node2

Setting up a epel repository for installing Ansible:

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

(or)

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

NOTE: https://fedoraproject.org/wiki/EPEL

Installing Ansible on Master / Control Node:

#yum update -y

#yum repolist

#yum install ansible -y

#ansible --version

Configure Permissions:

$cd /etc/ansible

$ll

create a file with name hosts

$sudo touch hosts

$sudo chmod 777 hosts

$vi /etc/ansible/hosts

[webservers]

Node1

Node2

TESTING ANSIBLE COMMANDS:

$ansible -m command -a "uptime" webservers

m: Module

a: Argument

$ansible -m command -a "logname" webservers