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| A picture of a winding road and trees  Ansible and Jenkins  Ubuntu cookbook | Abstract  This document talks about dev-ops tools installation steps in Ubutu 16 machines.  Ritesh\_Ranjan |

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# **Ansible**

## Installation

apt-get update

apt-get install software-properties-common

apt-add-repository ppa:ansible/ansible

apt-get update

apt-get install ansible

## Commands

ansible all -m ping

ansible webservers -m command -a "ls"

ansible -i inventory all -m command -a "iptables -F" --become --ask-become-pass

ansible all -m setup

ansible-doc setup

ansible-playbook file.yml

## SSH Key setup:

ssh-keygen

open host file /etc/ansible/hosts and enter [test-servers] hostname

ssh-copy-id -i hostname

ansible -m ping hostname

# **Jenkins**:

## Installation:

wget -q -O - https://pkg.jenkins.io/debian/jenkins-ci.org.key | sudo apt-key add -

echo deb https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list

sudo apt-get update

sudo apt-get install jenkins

## Service start and Stop

sudo systemctl start jenkins

sudo systemctl status Jenkins

## Firewall Changes

sudo ufw allow 8080

sudo ufw status

# **Puppet**

## Installation server

curl -O https://apt.puppetlabs.com/puppetlabs-release-pc1-xenial.deb

sudo dpkg -i puppetlabs-release-pc1-xenial.deb

sudo apt-get update

sudo apt-get install puppetserver

sudo systemctl start puppetserver

sudo systemctl status puppetserver

## Installation Agent

wget https://apt.puppetlabs.com/puppetlabs-release-pc1-xenial.deb

sudo dpkg -i puppetlabs-release-pc1-xenial.deb

sudo apt-get update

sudo apt-get install puppet-agent

sudo systemctl start puppet

sudo systemctl enable puppet

## Configure

* Add below line in /etc/hosts file of all machines (server +agent)

*<Puppet server ip> puppet*

* Restart server and then all agents
* If everything has been successful, then run below command in puppet server machine to check list of connected agents:

*sudo /opt/puppetlabs/bin/puppet cert list*

* If you can see all the agent names from above command, it means puppet server has detected these as agents. But server has still not certified these agents to be integrated with server. This can be done using below command:

*sudo /opt/puppetlabs/bin/puppet cert sign <agent hostname>*

# JAVA 8

sudo add-apt-repository ppa:webupd8team/java -y

sudo apt-get -qqy update

sudo apt-get -qqy install oracle-java8-installer

sudo apt-get -qqy oracle-java-8-set-default

# Docker CE

sudo apt-get install \

apt-transport-https \

ca-certificates \

curl \

software-properties-common

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

sudo apt-key fingerprint 0EBFCD88

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