Install Jenkins using Ansible Playbook

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- name: Jenkins Setup Playbook

hosts: jenkins\_servers

become: true

vars:

jenkins\_repo\_key\_url\_ubuntu: https://pkg.jenkins.io/debian-stable/jenkins.io.key

jenkins\_repo\_key\_url\_redhat: https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key

jenkins\_repo\_url\_redhat: https://pkg.jenkins.io/redhat-stable/jenkins.repo

tasks:

- name: Update apt cache (Ubuntu)

apt:

update\_cache: yes

when: ansible\_os\_family == "Debian"

- name: Install Java (Ubuntu)

apt:

name: openjdk-17-jdk

state: present

when: ansible\_os\_family == "Debian"

- name: Install Java (RedHat/CentOS)

yum:

name: java-17-openjdk

state: present

when: ansible\_os\_family == "RedHat"

- name: Add Jenkins GPG key (Ubuntu)

apt\_key:

url: "{{ jenkins\_repo\_key\_url\_ubuntu }}"

state: present

when: ansible\_os\_family == "Debian"

- name: Add Jenkins apt repository (Ubuntu)

apt\_repository:

repo: "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/"

state: present

filename: jenkins

when: ansible\_os\_family == "Debian"

- name: Install required tools (RedHat)

yum:

name: wget

state: present

when: ansible\_os\_family == "RedHat"

- name: Add Jenkins YUM repository file (RedHat)

get\_url:

url: "{{ jenkins\_repo\_url\_redhat }}"

dest: /etc/yum.repos.d/jenkins.repo

when: ansible\_os\_family == "RedHat"

- name: Import Jenkins GPG key (RedHat)

rpm\_key:

state: present

key: "{{ jenkins\_repo\_key\_url\_redhat }}"

when: ansible\_os\_family == "RedHat"

- name: Install Jenkins

package:

name: jenkins

state: present

- name: Enable Jenkins service

systemd:

name: jenkins

enabled: yes

- name: Start Jenkins service

systemd:

name: jenkins

state: started

- name: Ensure Jenkins is running

systemd:

name: jenkins

state: started

hosts file

[jenkins\_servers]

your-ec2-public-ip ansible\_user=ubuntu ansible\_ssh\_private\_key\_file=/root/your-key.pem

Run the playbook

ansible-playbook -i hosts jenkins-setup.yaml