**ASSIGNMENT 1: ANSIBLE**

GitHub Repo: <https://github.com/poojashreeNS/Assignments/tree/main/HW%231_Ansible/HW%231_By_Charu>

1. **Provision 3 VMs:** Ubuntu\_VM1, will be acting as primary/deployer VM in this exercise and rest two VMs are going to be client VMs on which webservers will be deployed.

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1. Install Ansible on primary VM.

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1. Install openssh server and client on all VMs.

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1. Generate keys on primary VM.

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1. Determine IPs of client machines (VM2 and VM3) using ifconfig command and copy primary machine’s ssh key into client machine’s authorized keys.

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1. Update the hosts file in /etc/ansible directory to specify our client VMs IP address as part of a new group ‘[apache]’ (Since I have used Apache webserver as part of this assignment).

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1. Verify that ansible inventory is updated to reflect newly added server group and make sure that all the host in ‘[apache]’ group are pingable.

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1. Deploy Apache webserver on both client machines by means of the curated playbook “deploy\_apache\_webserver.yml” (<https://github.com/poojashreeNS/Assignments/blob/main/HW%231_Ansible/HW%231_By_Charu/deploy_apache_webserver.yml> ).

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1. Verify that deployed webservers are up and running.

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1. Un-deploy Apache server from client VMs by means of second curated playbook “undeploy\_apache\_webser.yml” (<https://github.com/poojashreeNS/Assignments/blob/main/HW%231_Ansible/HW%231_By_Charu/undeploy_apache_webserver.yml> ).

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1. Verify that webservers are not responding anymore.

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