Install Ansible and Configure Apache Using Ansible on EC-Instance

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| Create two or more EC2-Instance | A screenshot of a cell phone  Description automatically generated |
| Update system | sudo yum update |
| Install ansible on main or control server | sudo rpm -Uvh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm  sudo yum install ansible -y |
| Check ansible install or not | ansible –version |
| Create an ansible admin user in all the client | useradd UserName  passwd UserName  Ex. useradd ans\_admin  passws ans\_admin (after that we need to give a password)  **NOTE: WE NEED TO CREATE ANSIBLE ADMIN USER IN ALL EC2-INSTANCES** |
| Open the “visudo” to add ansible admin user | visudo    **NOTE: WE NEED TO ADD ANSIBLE ADMIN USER INTO “visudo” file in ALL EC2-INSTANCES** |
| Uncomment password authentication in all client | We need to make that change in the following file:  /etc/ssh/sshd\_config  **Before:**    **After:**    **NOTE: WE NEED TO DO IN ALL CLIENTS AND SERVER INSTANCES** |
| Restart the sshd service in all clients and server | sudo service sshd restart  sudo systemctl restart sshd |
| Generate a keys (public key and private key) into ansible admin user (ans\_admin) | First log in to PUTTY by using the “Control Server” IP Address and for the username we need to give an ansible user account details:  Username: ans\_admin  Password: harshlad123  A screenshot of a cell phone  Description automatically generated |
| Generate a key in “ans\_admin” | ssh-keygen-t rsa  **NOTE: RUN THIS COMMAND INTO THE “ans\_admin” user** |
| Copy that key to all clients | First go to the key location into the “ans\_admin”  /home/ans\_admin/.ssh  After that we need IP for client to make a connection  “172.31.27.160”  A close up of text on a black background  Description automatically generated  Run command in “ans\_admin” to copy key to the client  ssh-copy-id IP Address  Ex. ssh-copy-id 172.31.27.160  When it is ask for password we just need to give password of “ans\_admin” |
| To check key is copy to client | ssh client IP adderss  ssh 172.31.27.160 |
| Add client to “hosts” file into “ans\_admin” | “hosts" file is located into “/etc/ansible/hosts”  Into the “hosts” file we need to give all client ips. |
| To check the connection has establish between client and server using ansible command | ansible all -m ping **OR**  ansible ClientIP -m ping  **NOTE: WE NEED TO RUN THIS COMMAND INTO THE ANSIBLE ACCOUNT**  **A screenshot of a cell phone  Description automatically generated** |
| **NOTE:** | Use tag in a playbook, we no need to run/execute whole |
| **LINKS:** | <https://www.youtube.com/watch?v=e0zWTmgSdLM> |

Install Apache Using Ansible Playbook

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| Add all the ip addresses of the client into the “hosts” file |  |
| Create an ansible playbook to install apache  Ansible playbook file have. yml extension (httpd.yml) | A close up of text on a black background  Description automatically generated |
| After we create a playbook (.yml) file we need to check the syntax for playbook | ansible-playbook FileName.yml –-syntax-check  Ex. ansible-playbook httpd.yml --syntax-check |
| Once everything is correct, we need to run command to install apache on the remote client | ansible-playbook FileName.yml  Ex. ansible-playbook httpd.yml |
| To check it is installed or not we need to take the private ip of the ec2-instance and port no 80 | Client Public IP:  A screenshot of a social media post  Description automatically generated  A screenshot of a cell phone  Description automatically generated |