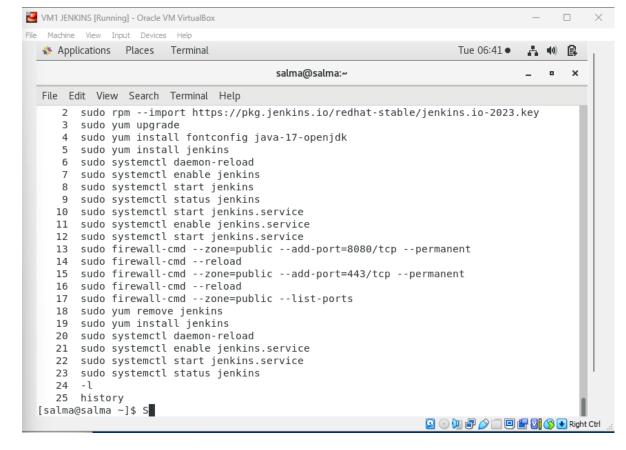
Project to establish an efficient CI/CD pipeline containing three virtual machines where changes to the Ansible playbook hosted in private GitLab instance on second VM trigger automated deployments of Apache HTTP Server on the third VM, with integrated notifications for jenkins pipeline on Jenkins server in first virtual machine status and relevant information about users.

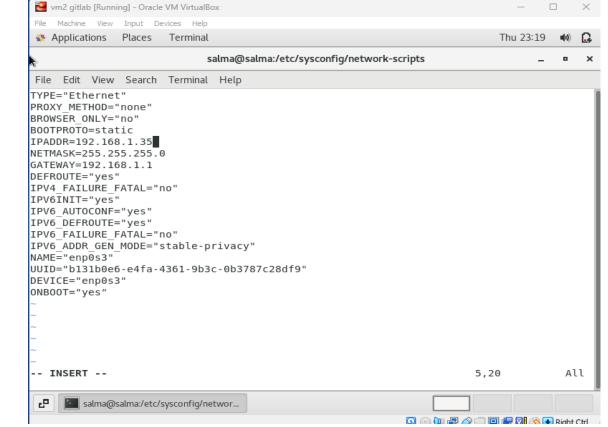
Made by : Salma Salah

Installing Jenkins on VM1 and GitLab on VM2

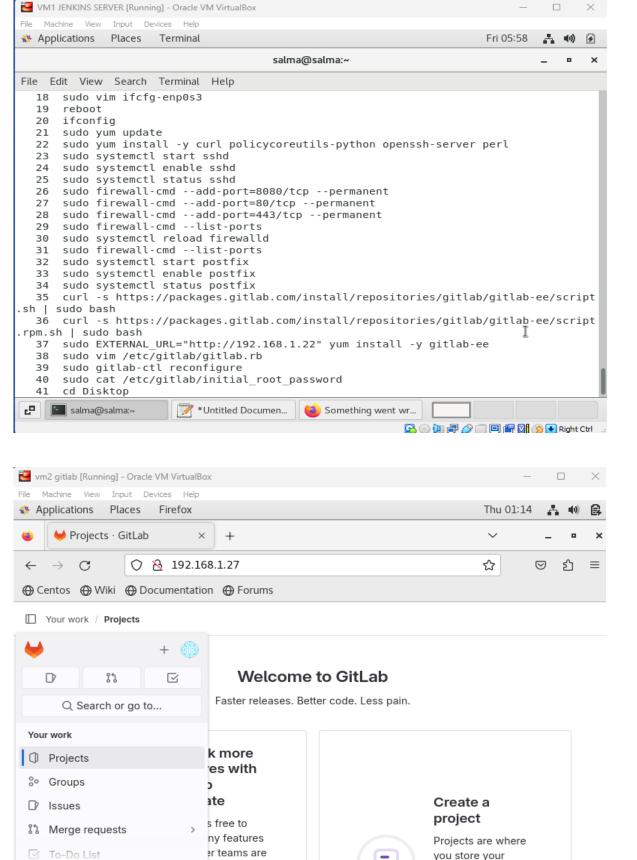
1) Installing Jenkins



2)Configuring VM2 to have static IP Address



3)Installing GitLab and getting root password to login with



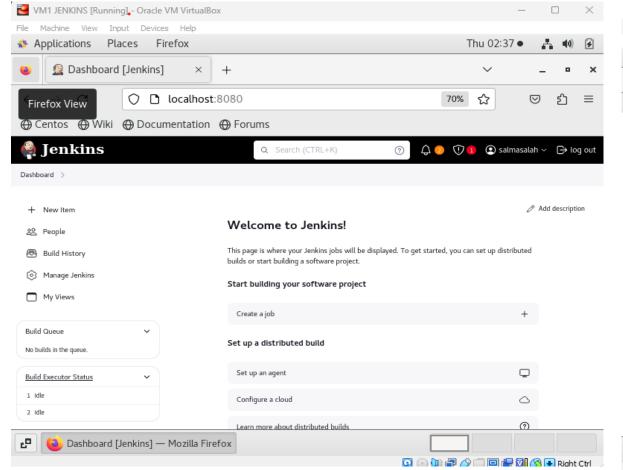
🍋 Projects · GitLab — Mozilla Firefox

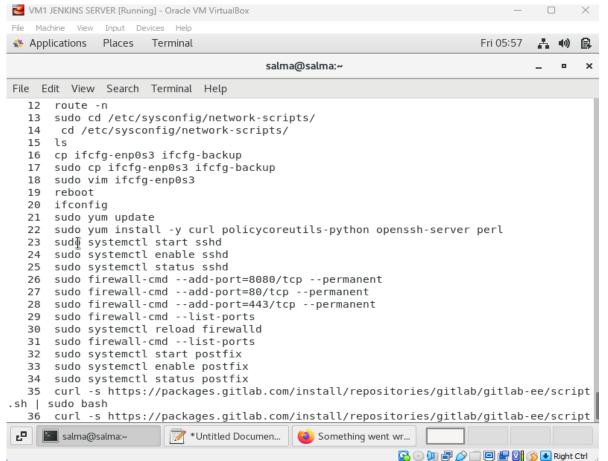
code, access

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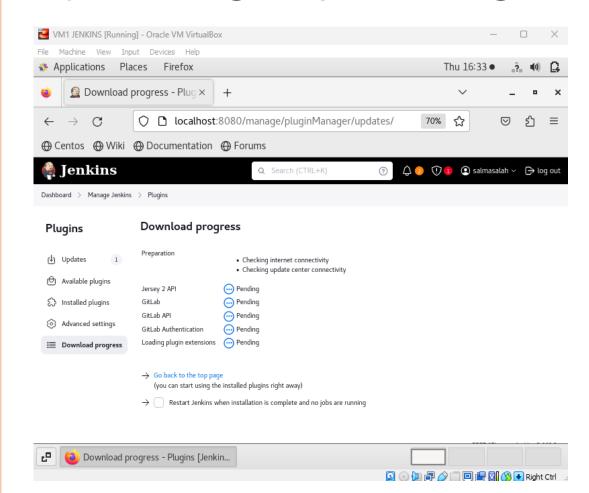
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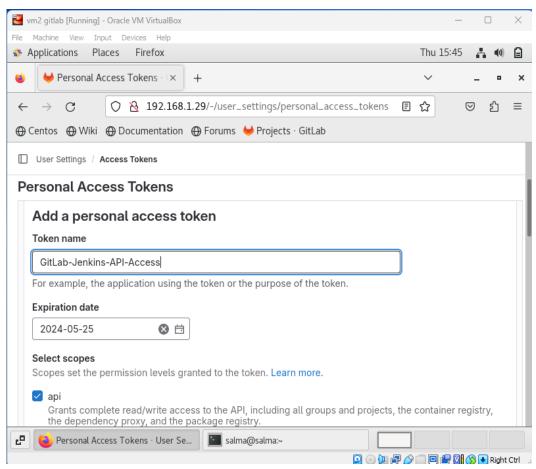


Jenkins Integration With GetLab

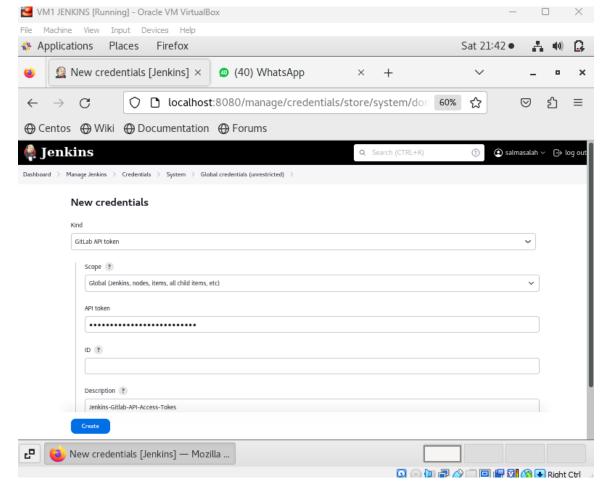
1)Installing Required Plugins



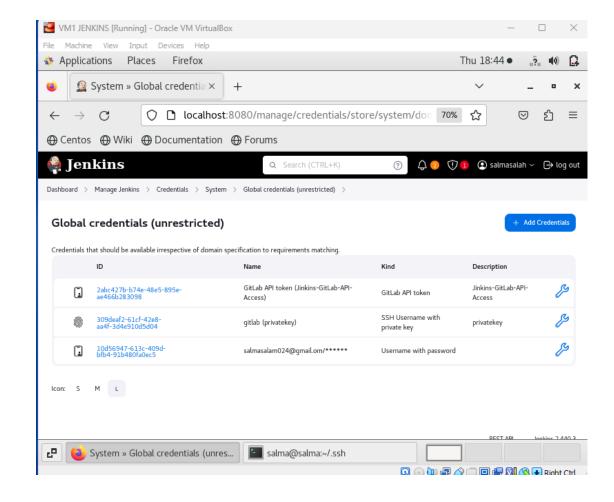
2) Creating API Token



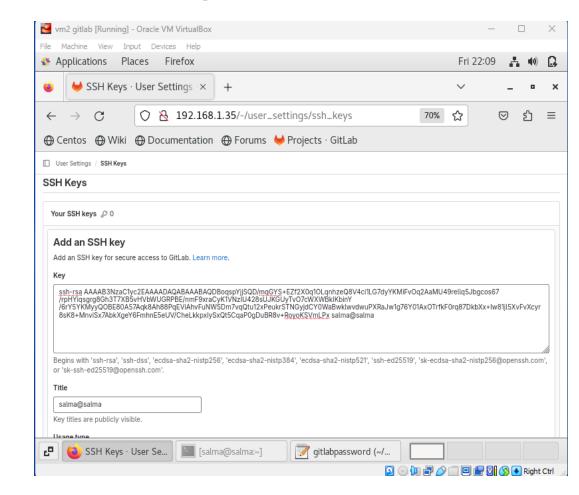
3) Adding token to jenkins



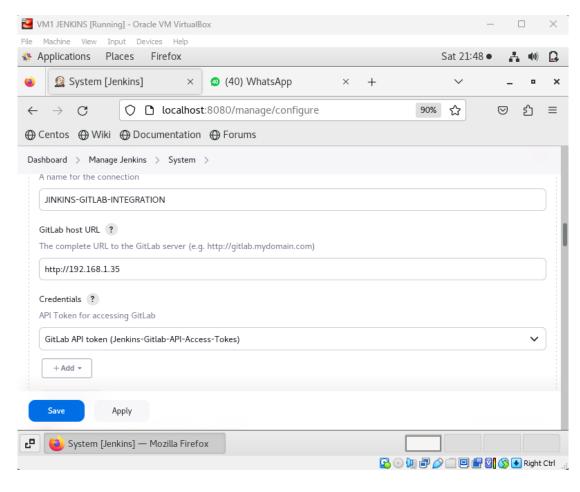
4) Creating SSH key



5) Adding key to Ansible

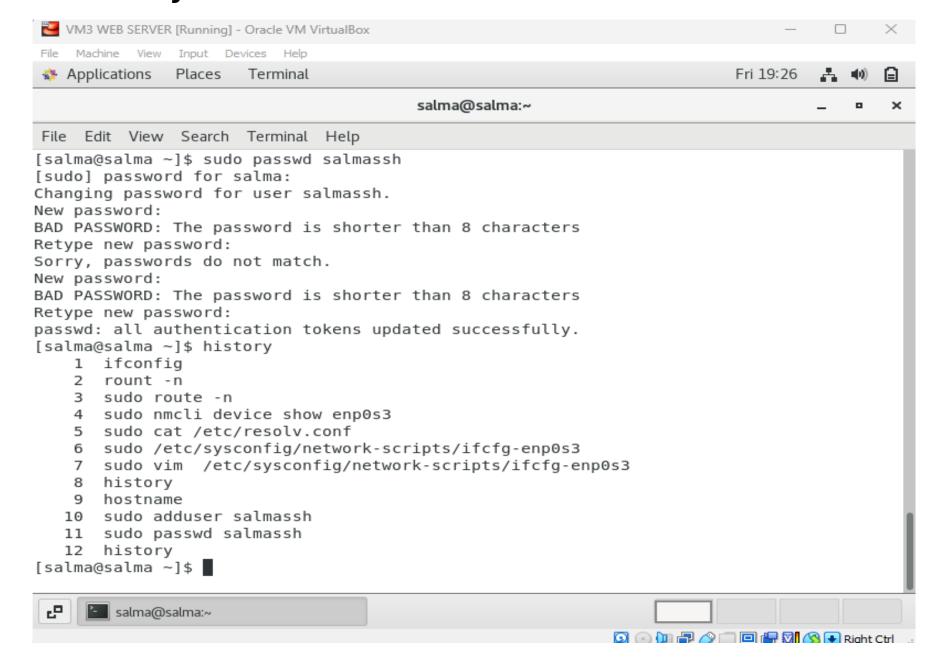


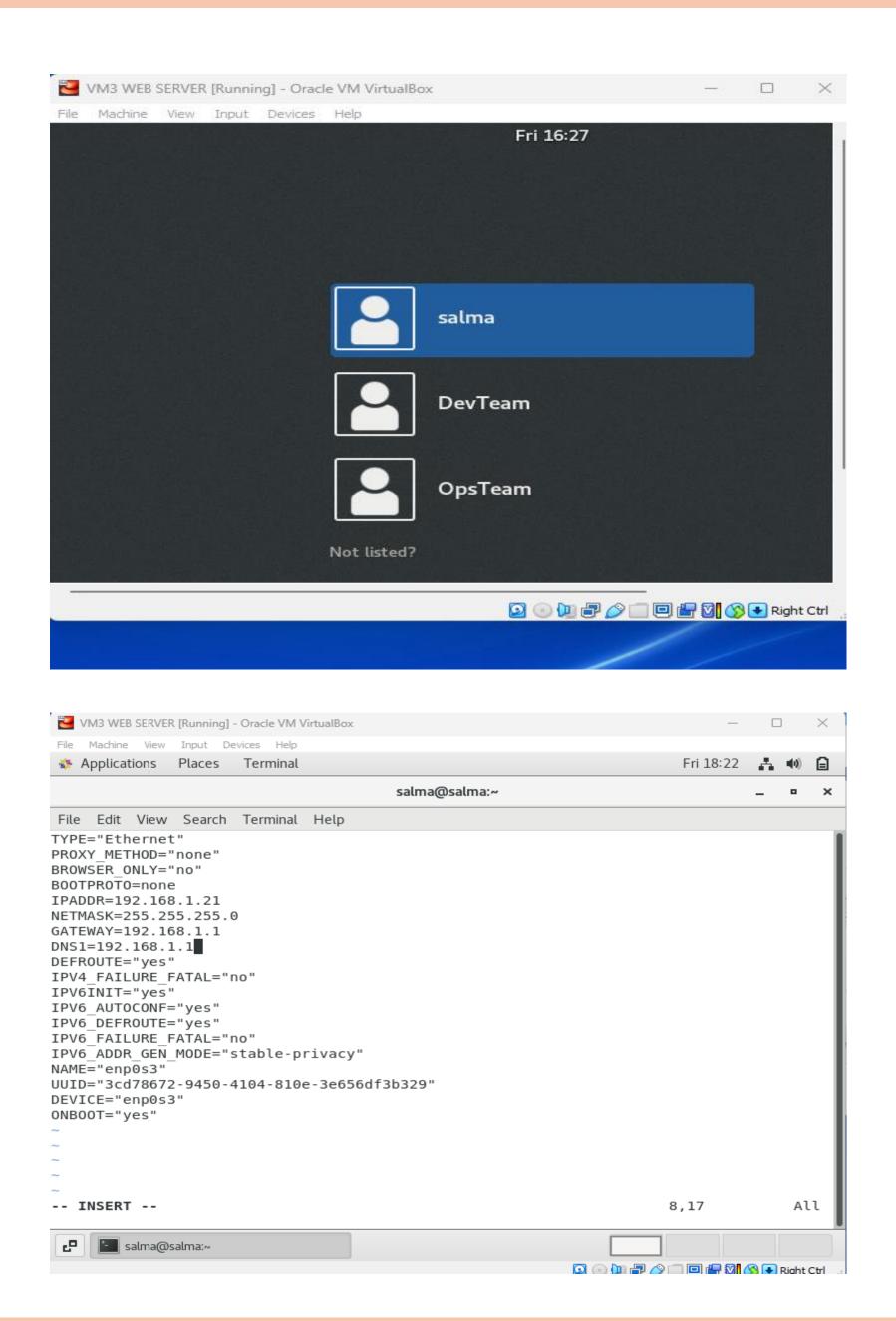
6) Testing Connection



Configurations on VM3

- 1) Running bash script to create users DevTeam
- & OpsTeam
- 2)Making IP address STATIC to be used in Ansible Inventory
- 3)Making SSH user to to be used in Ansible Inventory

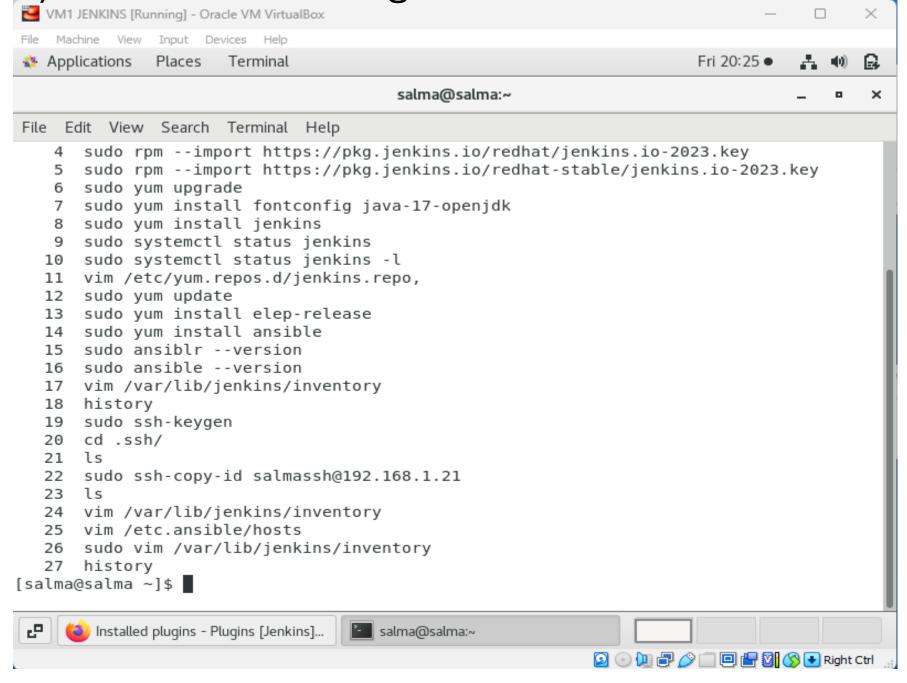


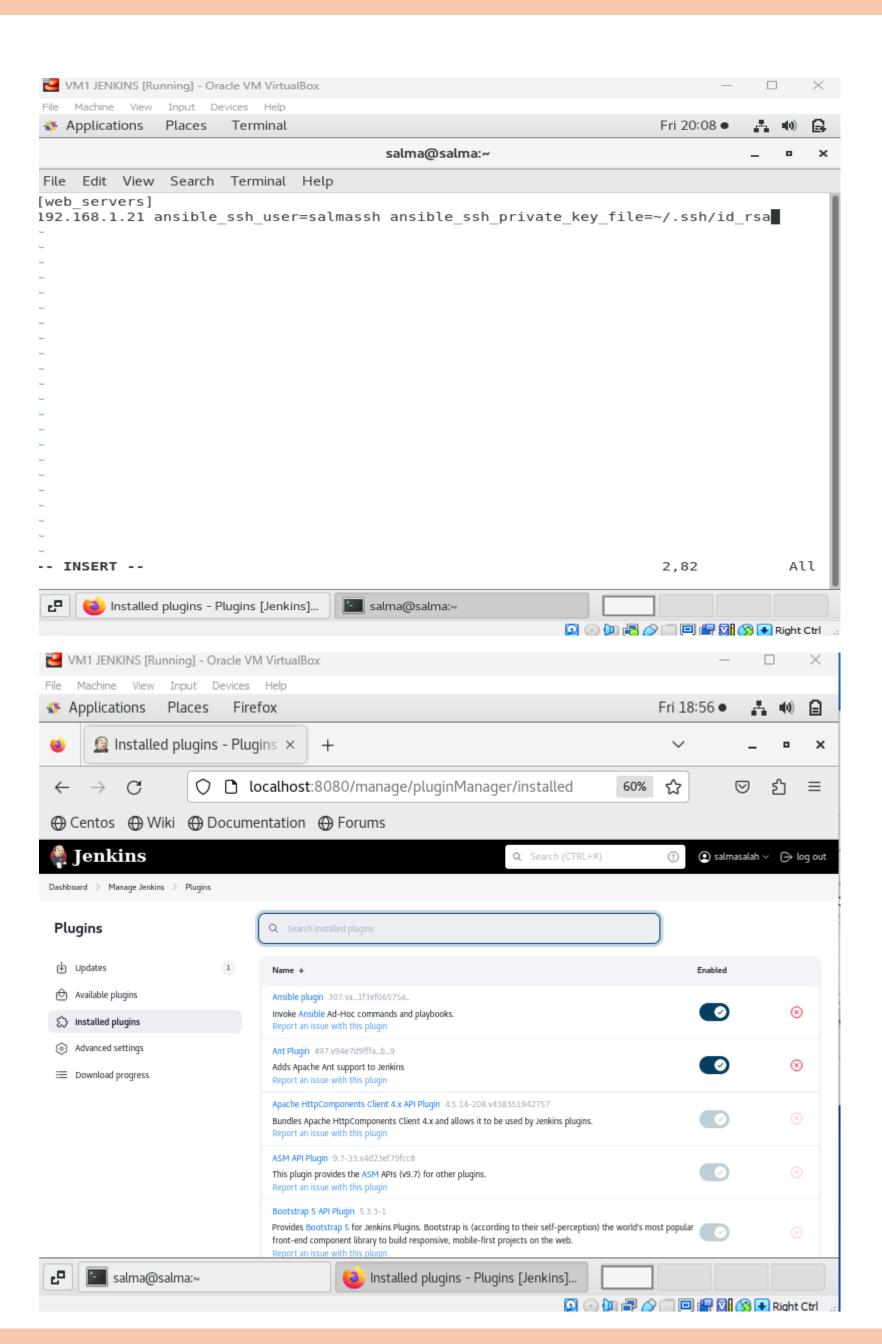


Ansible Installation and Integration with Jenkins

- 1)Install Ansible
- 2)Generate Public and private keys and copy the public to (VM3)
- 3) Configure Ansible Inventory and add IP Address of target machine (VM3) and ssh user name that was created on previous step and add path to private ssh key

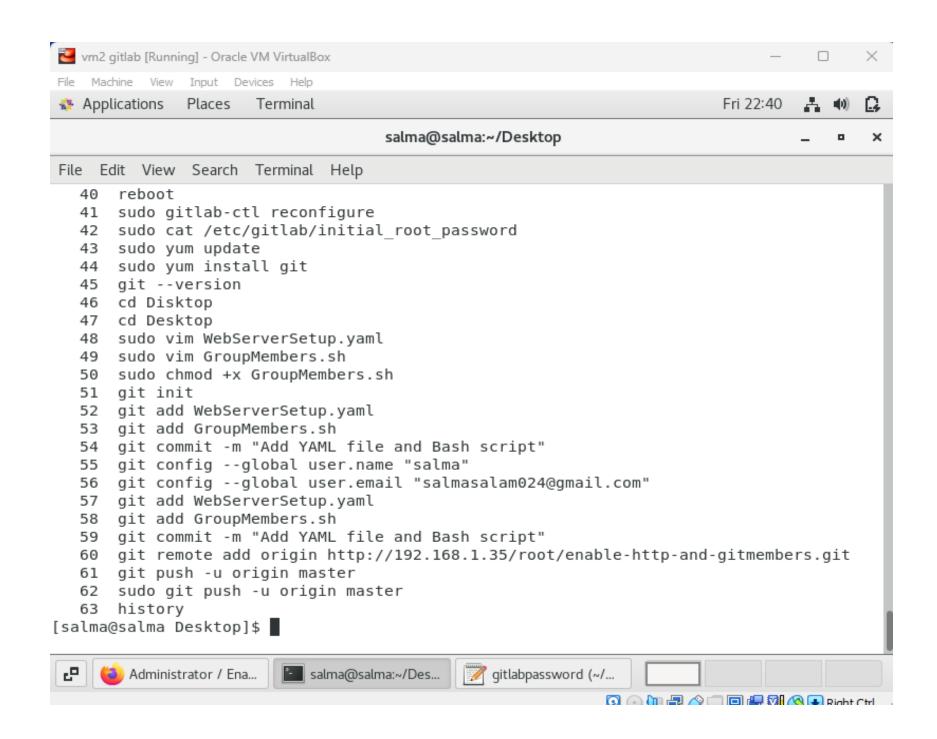
4) Install Ansible Plugin in Jenkins

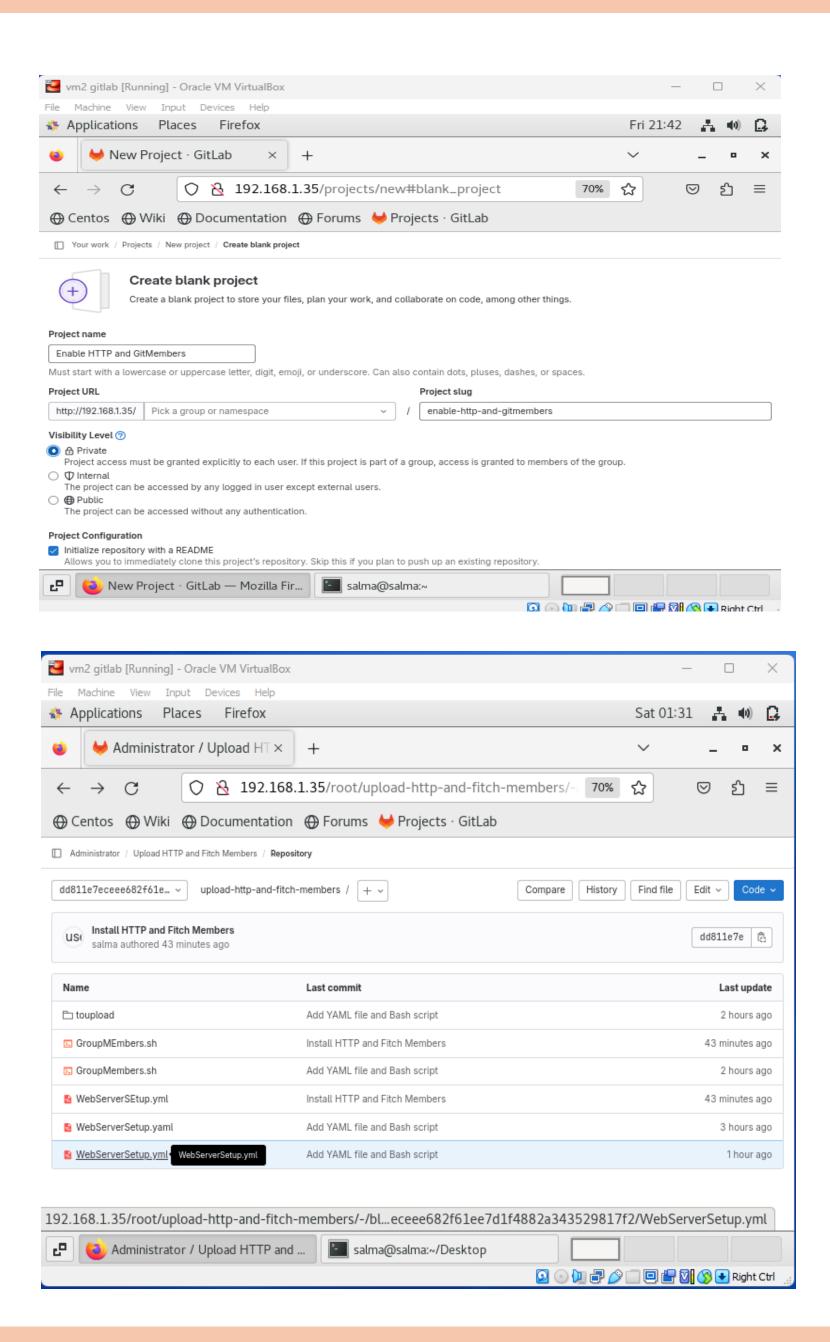




Git Installation and push files into GitLab Repo

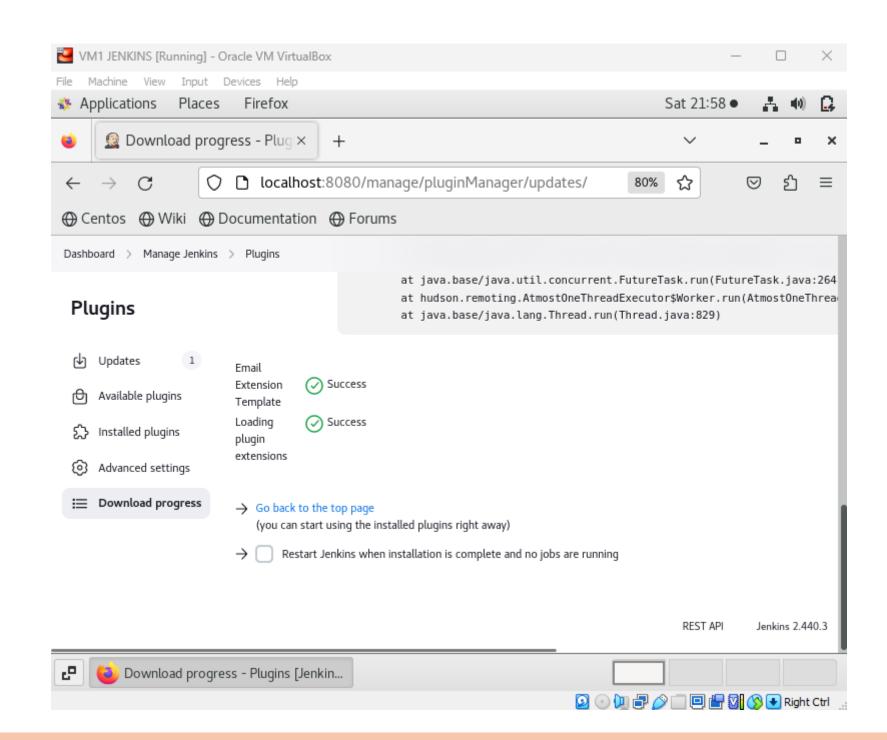
- 1)Install Git on VM2
- 2) Making a new repository
- 3) Push (WebSErver.yml) &(GetMEmbers.sh) into the Rebo

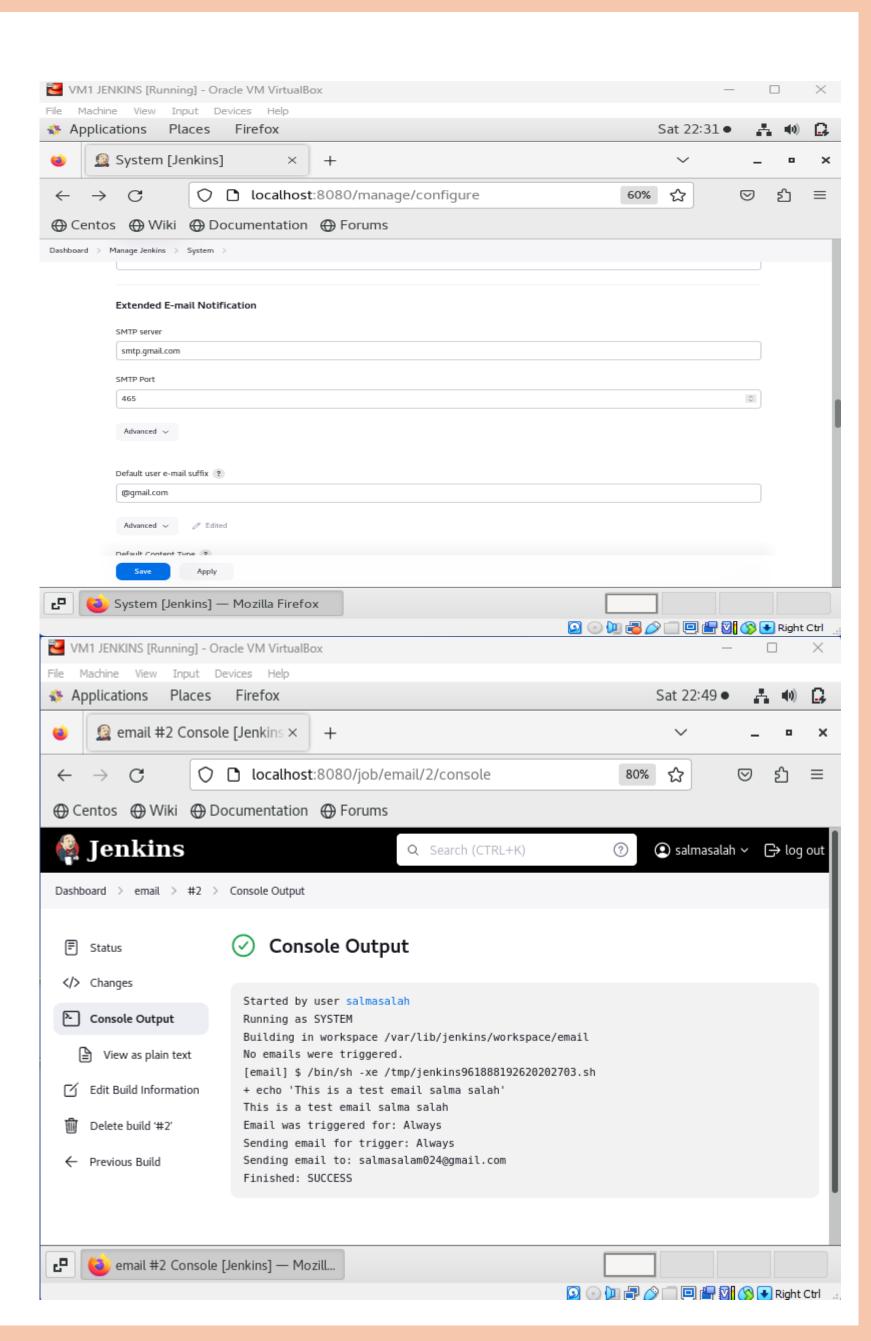




Setting Up Email Notification in Jenkins

- 1) Install Email Extension Plugin
- 2) Configure Email Notification Settings
- 3) Create a project to test if email notification is working and it 's successful





PipeLine Configuration

- 1)Create a new project
- 2) Add pipeline configurations and built triggers
- 3) Add Pipeline Script

