############ PROJECT1 ###############

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Project1 – Part1 – High level implementation

Graphical user interface, text, application, chat or text message

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Below are the detailed steps needed to performGraphical user interface, text, application

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Created required Vars.tf to create two VMs in Azure

Text

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Created main.tf to create two Linux VMsText

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Used Terraform Provisioner to install JDK and Jenkins in VM1

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Use Terraform Provisioner to install JDK, Maven, Ansible, Docker, AzureCli and Git

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Init, Plan and Apply Terraform Script to create VM’S in Azure

I already created VMS using terraform before. currently both VM'S are up and running in Azure.

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Manually Started Jenkins and configured required Plug-ins and Master Slave Configuration

Manually Started Jenkins

Graphical user interface, text

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**Able to Login to Jenkins**

Graphical user interface, application

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Completed Master Slave Configuration

Graphical user interface

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Configured required Plug-ins

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Project1 – Part2 – High level implementation

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**Below are Detailed steps needed to perform in Part-2**

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Graphical user interface, text, application, website

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Graphical user interface, text, application, website

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Graphical user interface, text, application, chat or text message

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**Created Maven Project with Archetype as web application in eclipse**

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**Modify Index.jsp under src/main/web content to display a custom message**

Graphical user interface, text, application

Description automatically generated

**Generated Docker file under project folder of app and Modified FROM statement to use tomcat as base image**Graphical user interface, text, application

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**Created a GitHub repository and copied repo URL, In Eclipse converted the app into a local repo from Team menu share Project Option and performed Commit and Pushed the code to the remote repo.**

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**In build server configured Ansible manually**

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**Created a playbook1(final1.yaml) to create a VM in azure**

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Text

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**Created the playbook2(Docker2.yaml) to install Docker engine on the VM**

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**Created a shell script(ip.sh) to get VM IP and updating it in Inventory File**

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**Push fianl1.yaml, docket2.yaml2 and shell script to Remote Git repo created in Phase3**

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**From Build server able to run all 2 playbooks and one sh script successfully.**

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Graphical user interface, text

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Project1 – Pipelines - High level implementation

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Below are the detailed steps needed to perform

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Created Repo in hub.docker.com

Graphical user interface, text, application, email

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Configured Global tool configurations in Jenkins to use JDK,Maven and Git

Graphical user interface, text, application

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**Configured Git credentials in Jenkins Vault**

Graphical user interface

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PIPELINE1: **Created Pipeline1 using Freestyle project in Jenkins**

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PIPELINE1: **In Jenkins SCM stage Pulled code form Remote Repo**

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PIPELINE1: **In Build Stage, Step1: used maven top level target to build**

Graphical user interface, text, application, email

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PIPELINE1:**in Build Stage Step 2: Used Docker build to create an image to push that image to the docker hub.Graphical user interface, text, application, email

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PIPELINE1: **Once pipeline1 configuration is complete and started build.**

Graphical user interface, text, application

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PIPELINE1: **It started building the image**

Text

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PIPELINE1: **after image creation, it’s pushing the image to Docker central HUB**

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PIPELINE1: **Finally Build is successful**

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**Created Pipeline2 using Freestyle project in Jenkins**

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PIPELINE2: In SCM stage pulled code form Remote Repo

Graphical user interface, text, application, email

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PIPELINE2**: In Build Stage Step 1: Selected ansible Playbook1(Final1.yaml)**

Graphical user interface, text, application, email

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PIPELINE2**: In Build Stage Step 2: Selected Shell Script(IP.sh)**

Graphical user interface, text, application

Description automatically generated

PIPELINE2: In Build Stage Step 3: Selected Ansible Playbook2(Docke2.yaml)

Graphical user interface, text, application, email

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