**Assignment 3**

* Use Apache HTTPD
* Serve a separate GitHub branch (2025-Q1, 2025-Q2, 2025-Q3)
* Use a separate named volume (Prasad1, Prasad2, Prasad3)
* Run on different ports (80, 90, 8000)

Ensure old containers and volumes are removed before fresh deployment.  
Use git clone and cp to place index.html in the correct volume path.

**SCRIPT –**

pipeline {

agent {

label "built-in"

}

stages {

stage("clear all containers and volumes") {

steps {

sh "sudo yum install docker -y"

sh "sudo service docker start"

sh "sudo docker kill Q1 || true"

sh "sudo docker rm Q1 || true"

sh "sudo docker kill Q2 || true"

sh "sudo docker rm Q2 || true"

sh "sudo docker kill Q3 || true"

sh "sudo docker rm Q3 || true"

sh "sudo docker volume rm Prasad1 || true"

sh "sudo docker volume rm Prasad2 || true"

sh "sudo docker volume rm Prasad3 || true"

}

}

stage("create volumes") {

steps {

sh "sudo docker volume create Prasad1"

sh "sudo docker volume create Prasad2"

sh "sudo docker volume create Prasad3"

}

}

stage("clone and copy files") {

steps {

sh "sudo rm -rf /tmp/Project\_Q1 || true"

sh "sudo rm -rf /tmp/Project\_Q2 || true"

sh "sudo rm -rf /tmp/Project\_Q3 || true"

sh "sudo git clone -b 2025-Q1 https://github.com/prasadpawar252/20205\_REPO.git /tmp/Project\_Q1"

sh "sudo cp /tmp/Project\_Q1/index.html /var/lib/docker/volumes/Prasad1/\_data/"

sh "sudo chmod 755 /var/lib/docker/volumes/Prasad1/\_data/index.html"

sh "sudo git clone -b 2025-Q2 https://github.com/prasadpawar252/20205\_REPO.git /tmp/Project\_Q2"

sh "sudo cp /tmp/Project\_Q2/index.html /var/lib/docker/volumes/Prasad2/\_data/"

sh "sudo chmod 755 /var/lib/docker/volumes/Prasad2/\_data/index.html"

sh "sudo git clone -b 2025-Q3 https://github.com/prasadpawar252/20205\_REPO.git /tmp/Project\_Q3"

sh "sudo cp /tmp/Project\_Q3/index.html /var/lib/docker/volumes/Prasad3/\_data/"

sh "sudo chmod 755 /var/lib/docker/volumes/Prasad3/\_data/index.html"

}

}

stage("run containers") {

steps {

sh "sudo docker run -dp 80:80 -v Prasad1:/usr/local/apache2/htdocs --name Q1 httpd:2.4-bullseye"

sh "sudo docker run -dp 90:80 -v Prasad2:/usr/local/apache2/htdocs --name Q2 httpd:2.4-bullseye"

sh "sudo docker run -dp 8000:80 -v Prasad3:/usr/local/apache2/htdocs --name Q3 httpd:2.4-bullseye"

}

}

}

}



