

Docker

Assignment 3- Create container of httpd image and integrate with github repo with three branches and deploy one branch to one container with port 80,port 90 and port 8001 respectively and use volume to store file

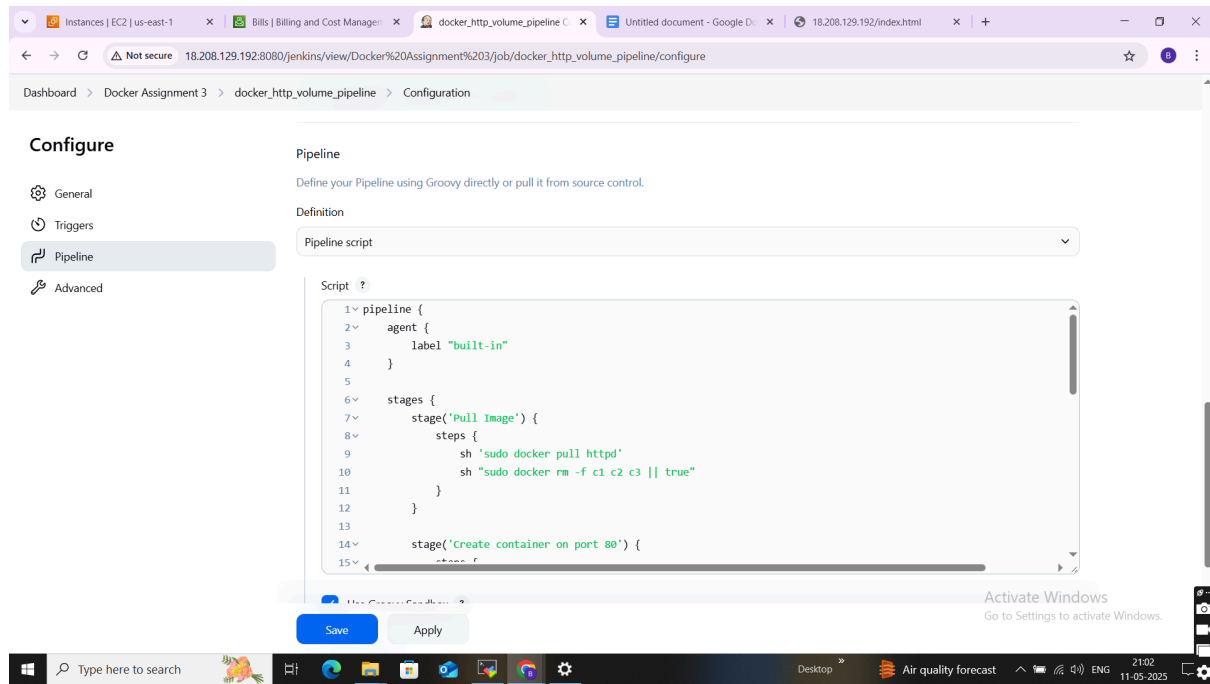
The image displays two screenshots of the Jenkins web interface, illustrating the setup of a new pipeline.

Top Screenshot: New Item Page

- URL:** `44.223.25.126:8080/jenkins/view/Docker%20Assignment%203/newJob`
- Page Title:** Jenkins
- Breadcrumbs:** Dashboard > Docker Assignment 3 > New Item
- Form Fields:**
 - Enter an item name:** `docker_http_volume_pipeline`
 - Select an item type:** Pipeline (selected)
- Buttons:** OK, Add to current view

Bottom Screenshot: Configuration Page

- URL:** `44.223.25.126:8080/jenkins/view/Docker%20Assignment%203/job/docker_http_volume_pipeline/configure`
- Page Title:** Configure
- Breadcrumbs:** Dashboard > Docker Assignment 3 > docker_http_volume_pipeline > Configuration
- Left Sidebar:** General (selected), Triggers, Pipeline, Advanced
- Main Content Area:**
 - Description:** Docker Assignment 3
 - Discard old builds:** ☒ (checked)
 - Strategy:** Log Rotation
 - Days to keep builds:** 2
 - Max # of builds to keep:** 5
- Buttons:** Save, Apply



```

pipeline {
  agent {
    label "built-in"
  }

  stages {
    stage('Pull Image') {
      steps {
        sh 'sudo docker pull httpd'
        sh "sudo docker rm -f c1 c2 c3 || true"
      }
    }

    stage('Create container on port 80') {
      steps {
        git branch: '2025_Q1', url: 'https://github.com/Bhagyashri1796/docker_repo.git'
        sh "cp /root/.jenkins/workspace/docker_http_volume_pipeline/index.html
/var/lib/docker/volumes/volume_c1"
        sh "sudo docker run -d --name c1 -p 80:80 -v
/var/lib/docker/volumes/volume_c1:/usr/local/apache2/htdocs httpd"
        sh "sudo chmod 777 /var/lib/docker/volumes/volume_c1/index.html"
      }
    }

    stage('Create container on port 90') {
      steps {
        git branch: '2025_Q2', url: 'https://github.com/Bhagyashri1796/docker_repo.git'
        sh "cp /root/.jenkins/workspace/docker_http_volume_pipeline/index.html
/var/lib/docker/volumes/volume_c2"

```

```

    sh "sudo docker run -d --name c2 -p 90:80 -v
/var/lib/docker/volumes/volume_c2:/usr/local/apache2/htdocs httpd"
    sh "sudo chmod 777 /var/lib/docker/volumes/volume_c2/index.html"
}
}

stage('Create container on port 8001') {
    steps {
        git branch: '2025_Q3', url: 'https://github.com/Bhagyashri1796/docker_repo.git'
        sh "cp /root/.jenkins/workspace/docker_http_volume_pipeline/index.html
/var/lib/docker/volumes/volume_c3"
        sh "sudo docker run -d --name c3 -p 8001:80 -v
/var/lib/docker/volumes/volume_c3:/usr/local/apache2/htdocs httpd"
        sh "sudo chmod 777 /var/lib/docker/volumes/volume_c3/index.html"
    }
}
}
}
}

```

The screenshot shows a MobaXterm terminal window with the following content:

```

root@ip-172-31-31-127:/var/lib/docker/volumes/volume_c3
[root@ip-172-31-31-127 volume_c1]# ls -ltr
total 4
drwxr-xr-x. 2 root root 6 May 11 13:21 _data
-rwxrwxrwx. 1 root root 32 May 11 15:38 index.html
[root@ip-172-31-31-127 volume_c1]# cat index.html
<h1>This is 2025_Q1 branch</h1>
[root@ip-172-31-31-127 volume_c1]# cd ..
[root@ip-172-31-31-127 volumes]# cd volume_c2
[root@ip-172-31-31-127 volume_c2]# ls -ltr
total 4
drwxr-xr-x. 2 root root 6 May 11 13:21 _data
-rwxrwxrwx. 1 root root 32 May 11 15:38 index.html
[root@ip-172-31-31-127 volume_c2]# cat index.html
<h1>This is 2025_Q2 branch</h1>
[root@ip-172-31-31-127 volume_c2]# cd ../volume_c3
[root@ip-172-31-31-127 volume_c3]# ls -ltr
total 4
drwxr-xr-x. 2 root root 6 May 11 13:21 _data
-rwxrwxrwx. 1 root root 32 May 11 15:38 index.html
[root@ip-172-31-31-127 volume_c3]# cat index.html
<h1>This is 2025_Q3 branch</h1>
[root@ip-172-31-31-127 volume_c3]#

```

The terminal window is titled "root@ip-172-31-31-127:/var/lib/docker/volumes/volume_c3". The left sidebar shows a file explorer with "home/ec2-user/" selected. The bottom status bar indicates "UNREGISTERED VERSION" and "Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net". The system tray shows the date "21:04 11-05-2025".

Instances | EC2 | us-east-1 x Bills | Billing and Cost Manager x docker_http_volume_pipeline # x Untitled document - Google Docs x 18.208.129.192/index.html x +

← → ↻ Not secure 18.208.129.8080/jenkins/view/Docker%20Assignment%203/job/docker_http_volume_pipeline/5/console ☆ ⓘ

Dashboard > Docker Assignment 3 > docker_http_volume_pipeline > #5

```
> git --version # timeout=10
> git --version # 'git version 2.47.1'
> git fetch --tags --force --progress -- https://github.com/Bhagyashri1796/docker_repo.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/2025_Q3^[commit] # timeout=10
Checking out Revision 9818381367900d07f57c08c780aee80f7a310612 (refs/remotes/origin/2025_Q3)
> git config core.sparsecheckout # timeout=10
> git checkout -f 9818381367900d07f57c08c780aee80f7a310612 # timeout=10
> git branch -a -v --no-abbrev # timeout=10
> git checkout -b 2025_Q3 9818381367900d07f57c08c780aee80f7a310612 # timeout=10
Commit message: "Update index.html"
First time build. Skipping changelog.
[Pipeline] sh
+ cp /root/.jenkins/workspace/docker_http_volume_pipeline/index.html /var/lib/docker/volumes/volume_c3
[Pipeline] sh
+ sudo docker run -d --name c3 -p 8001:80 -v /var/lib/docker/volumes/volume_c3:/usr/local/apache2/htdocs httpd
aee97eb59c33f2e4e71ad08c215fc8ee639dd81479d531cabe0f3ab02c86c1ff
[Pipeline] sh
+ sudo chmod 777 /var/lib/docker/volumes/volume_c3/index.html
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

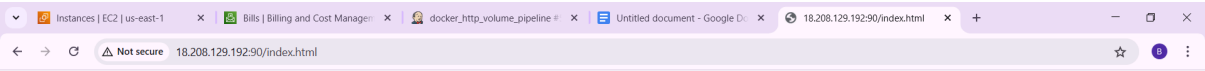
Activate Windows
Go to Settings to activate Windows.
REST API Jenkins 2.504.1

Windows taskbar: Type here to search, Desktop, Air quality forecast, 21:02 11-05-2025

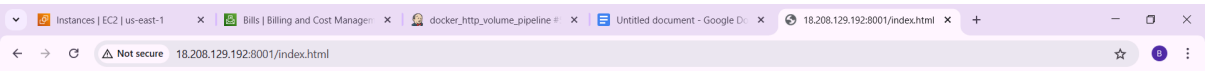
This is 2025_Q1 branch

Activate Windows
Go to Settings to activate Windows.

Windows taskbar: Type here to search, Desktop, Air quality forecast, 21:02 11-05-2025



This is 2025_Q2 branch



This is 2025_Q3 branch

