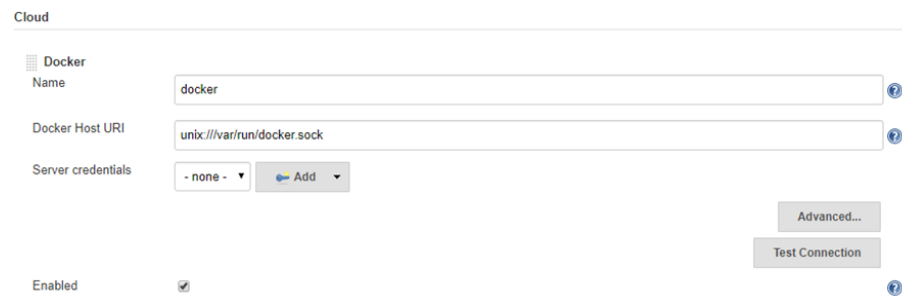


4.6 Setting Up Jenkins Pipeline

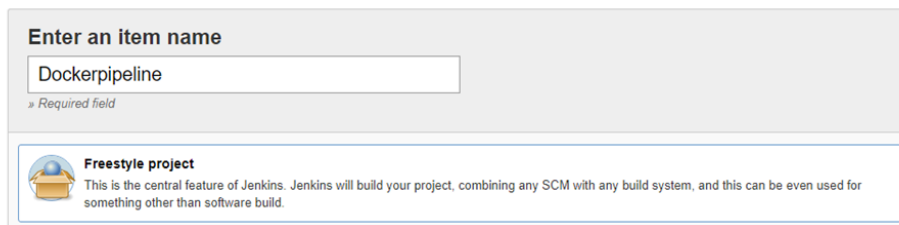
Docker Host URI: unix:///var/run/docker.sock



The screenshot shows the Jenkins configuration page for a Docker cloud. The 'Name' field is set to 'docker'. The 'Docker Host URI' field is set to 'unix:///var/run/docker.sock'. The 'Server credentials' dropdown is set to 'none'. There are buttons for 'Advanced...', 'Test Connection', and 'Enabled' (checked).

chmod 777 /var/run/docker.sock

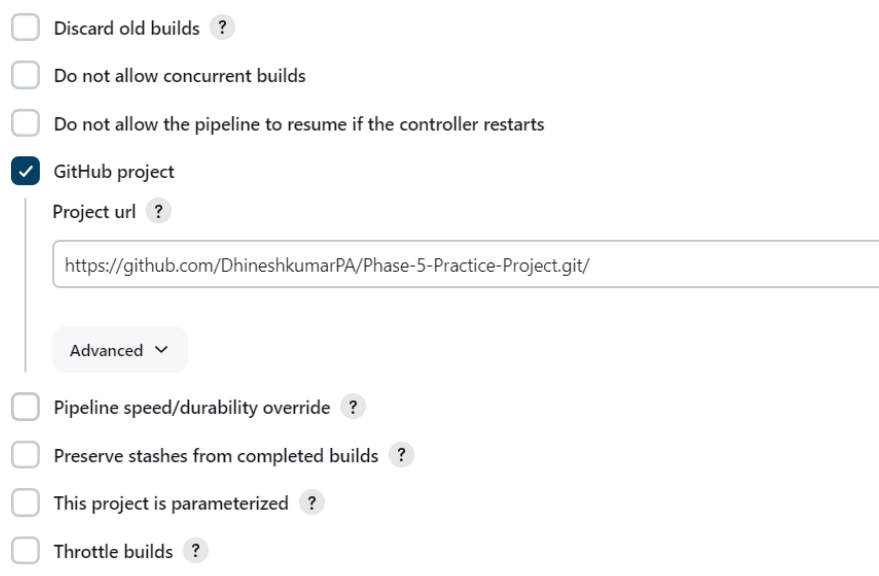
```
root@ip-172-31-17-73:/var/run# chmod 777 docker.sock
```



The screenshot shows the 'Enter an item name' dialog in Jenkins. The 'Item name' field is set to 'Dockerpipeline'. Below the field is a 'Freestyle project' icon and a description: 'This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.'

Configure Git repository so that we can have Dockerfile to build Docker container and push it to Docker Hub

<https://github.com/DhineshkumarPA/Phase-5-Practice-Project.git/>



The screenshot shows the Jenkins configuration page for a GitHub project. The 'Discard old builds' checkbox is unchecked. The 'Do not allow concurrent builds' checkbox is unchecked. The 'Do not allow the pipeline to resume if the controller restarts' checkbox is unchecked. The 'GitHub project' checkbox is checked. The 'Project url' field is set to 'https://github.com/DhineshkumarPA/Phase-5-Practice-Project.git/'. There is an 'Advanced' dropdown menu. Below the 'Advanced' dropdown are several checkboxes: 'Pipeline speed/durability override' (unchecked), 'Preserve stashes from completed builds' (unchecked), 'This project is parameterized' (unchecked), and 'Throttle builds' (unchecked).

Configure build triggers to enable Poll SCM feature so that once any push is detected

Build Triggers

- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☒ GitHub hook trigger for GITScm polling ?
- ☒ Poll SCM ?
 - Schedule ?

H/2****
- ☐ Ignore post-commit hooks ?
- ☐ Quiet period ?
- ☐ Trigger builds remotely (e.g., from scripts) ?

```
4: digest: sha256:4a9404ab7b26b05fcd0aee10538a43667fc2b9d0834d7dffb4d330356afd106 size: 2408
Cleaning local images [57c0eeb63850]
Docker Build Done
Pulling image anujsharma1990/phpcode:4
4: Pulling from anujsharma1990/phpcode5b7339215d1d:Already exists14ca88e9f672:Already existsa31c3b1caad4:Already
existsb054a26005b7:Already existsd4db4c3dd692:Pulling fs layer42cbd6016189:Pulling fs layer58e44124d930:Pulling fs
layercb727fa74bc1:Pulling fs layer51e9e9911579:Pulling fs layer860ae8d8f8:Pulling fs
layer51e9e9911579:Waiting860ae8d8f8:Waitingcb727fa74bc1:Waiting58e44124d930:Verifying Checksum58e44124d930:Download
completecb727fa74bc1:Verifying Checksumcb727fa74bc1:Download complete51e9e9911579:Verifying Checksum51e9e9911579:Download
completed4db4c3dd692:Verifying Checksumd4db4c3dd692:Download complete860ae8d8f8:Verifying Checksum860ae8d8f8:Download
completed4db4c3dd692:Pull complete42cbd6016189:Verifying Checksum42cbd6016189:Download complete42cbd6016189:Pull
complete58e44124d930:Pull completecb727fa74bc1:Pull complete51e9e9911579:Pull complete860ae8d8f8:Pull completenull:Digest:
sha256:4a9404ab7b26b05fcd0aee10538a43667fc2b9d0834d7dffb4d330356afd106null:Status: Downloaded newer image for
anujsharma1990/phpcode:4Starting container for image anujsharma1990/phpcode:4
Started container aec3ed34f43c7d14e1166aed67b99e9f211aed2fe105b10ee5604c046522e8cc
Finished: SUCCESS
```

```
root@ip-172-31-17-73:/var/run$ docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED
aec3ed34f43c        anujsharma1990/phpcode:4   "/usr/sbin/apache2 -â!"   44 seconds ago
root@ip-172-31-17-73:/var/run$
```