

Devops Assignment

Create freestyle Jenkins job to download code from Git.

Dashboard >

+ New Item

People

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

Add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job →

Set up a distributed build

Set up an agent →

Dashboard > Manage Jenkins

+ New Item

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Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).

Set up agentSet up cloudDismiss

Manage Jenkins

System Configuration

Configure System

Configure global settings and paths.

Global Tool Configuration

Configure tools, their locations and automatic installers.

Manage Plugins

Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

Manage Nodes and Clouds

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

Dashboard > Manage Jenkins > Plugin Manager

Updates

Available plugins

Installed plugins

Advanced settings

Plugins

Q deploy /

Install	Name ↓	Released
<input checked="" type="checkbox"/>	<div>Deploy to container 1.16</div> <div>Artifact Uploaders</div> <div>This plugin allows you to deploy a war to a container after a successful build. Glassfish 3.x remote deployment</div>	2 yr 2 mo ago

Install without restart

Download now and install after restart

Update information obtained: 31 min ago

Check now

- Login to Jenkins. On the Jenkins DashBoard click on new item> FreeStyle Project. Give it a name. And click on ok.

Enter an item name

DemoFreeStyleProject

» Required field

Freestyle project
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.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

- Enter The git Repository link and enter the credentials. Also Mention the name of the branch where the project is.

Dashboard > week3 > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Source Code Management

None

Git

Repositories

Repository URL
https://github.com/piyush-sharma05/Devops.git

Credentials
- none -

+ Add

Credentials
- none -

+ Add

Advanced...

Add Repository

Branches to build

Branch Specifier (blank for 'any')
*/week3

Add Branch

Repository browser
(Auto)

Additional Behaviours
Add

Create pipeline to build and test basic .net project code.

- Create two or more freestyle job. Add built in actions to the project. One will be the downstream project and one will be the upstream project.

Dashboard > JenkinsDemoProject1 > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Build other projects ?

Projects to build

☒ Trigger only if build is stable
☐ Trigger even if the build is unstable
☐ Trigger even if the build fails

Add post-build action ▾

Save Apply

Dashboard > jenkins2 > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

☐ Trigger builds remotely (e.g., from scripts) ?
☒ Build after other projects are built ?
 Projects to watch

☒ Trigger only if build is stable
☐ Trigger even if the build is unstable
☐ Trigger even if the build fails
☐ Always trigger, even if the build is aborted

☐ Build periodically ?
☐ GitHub hook trigger for GITScm polling ?
☐ Poll SCM ?

Save Apply

- On the Dashboard click on plus icon and create a pipeline view. Give it a name and click on Create Button.

Dashboard >

- + New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views

Build Queue ▾

No builds in the queue.

Build Executor Status ▾

1 Idle

2 Idle

New view

Name

Type

☒ **Build Pipeline View**
 Shows the jobs in a build pipeline view. The complete pipeline of jobs that a version propagates through are shown as a row in the view.

☐ List View
 Shows items in a simple list format. You can choose which jobs are to be displayed in which view.

☐ My View
 This view automatically displays all the jobs that the current user has an access to.

Create

- Select the initial Job you want to start running the pipeline from. The pipeline will be created.

Dashboard > DemoPipelineView1 >

Build Executor Status

1 Idle
2 Idle

Pipeline Flow

Layout

Based on upstream/downstream relationship

This layout mode derives the pipeline structure based on the upstream/downstream trigger relationship between jobs. This is the only out-of-the-box supported layout mode, but is open for extension.

Upstream / downstream config

Select Initial Job ?

JenkinsDemoProject1

Trigger Options

- Click on the Pipeline and run it.

Dashboard > pipelinedemo1 >

Build Pipeline

Trigger a Pipeline Run
Pipeline History History
Configure Configure
Add Step Add Step
Delete Delete
Manage Manage

Pipeline #28

#28 JenkinsDemoProject1
28-Jan-2023 6:28:44 PM
8 ms and counting
admin

jenkins2
N/A
N/A

Dashboard > pipelinedemo1 >

Build Pipeline

Trigger a Pipeline Run
Pipeline History History
Configure Configure
Add Step Add Step
Delete Delete
Manage Manage

Pipeline #28

#28 JenkinsDemoProject1
28-Jan-2023 6:28:44 PM
4 sec
admin

jenkins2
N/A
N/A

Dashboard > pipelinedemo1 >

Build Pipeline

Trigger a Pipeline Run
Pipeline History History
Configure Configure
Add Step Add Step
Delete Delete
Manage Manage

Pipeline #28


#28 JenkinsDemoProject1
28-Jan-2023 6:28:44 PM
4 sec
admin


#7 Jenkins2
28-Jan-2023 6:28:56 PM
41 sec


Enter an item name

PipelineDemo

» Required field


Freestyle project
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.


Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.


Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

Configure

- General
- Advanced Project Options
- Pipeline

Pipeline

Definition

Pipeline script

Script ?

```

1 * node{
2 *   stage("cloning"){
3 *     echo "Cloning started"
4 *     git branch: 'Azure', credentialsId: '7aa0f2e9-d09c-46a6-ba85-a230dffebea2',
5 *     url: 'https://git.nagarro.com/GITG00641/DotNet/rinney-sengar'
6 *     echo "Cloning ended"
7 *   }
8 *
9 *   stage("build"){
10 *    echo "build starts"
11 *    // bat 'dotnet run'
12 *    echo "build ends"
13 *   }
14 *   stage("testing"){
15 *     echo "testing starts"
16 *     echo "testing ends"
17 *   }

```

☒ Use Groovy Sandbox ?

Save Apply

Branch ?

Azure

Credentials ?

+ Add

☒ Include in polling? ?

☒ Include in changelog? ?

Generate Pipeline Script

Dashboard > FirstPipeline >

Status

</> Changes

▶ Build Now

⚙️ Configure

🗑️ Delete Pipeline

🔍 Full Stage View

✎ Rename

❓ Pipeline Syntax

Pipeline FirstPipeline

✎ Add description

Disable Project

Stage View

#7

Jan 12 13:26

No Changes

Cloning	build	testing	
Average stage times: (Average full run time: ~5s)	5s	117ms	131ms
5s	117ms	131ms	

Build History

trend ^

Atom feed for all

Atom feed for failures

Dashboard > FirstPipeline > #7

Status

</> Changes

Console Output

View as plain text

✓ Edit Build Information

🗑️ Delete build '#7'

🔍 Git Build Data

↺ Replay

📋 Pipeline Steps

📁 Workspaces

✓ Console Output

Started by user [admin](#)

[Pipeline] Start of Pipeline

[Pipeline] node

Running on [Jenkins](#) in C:\ProgramData\Jenkins\jenkins\workspace\FirstPipeline

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Cloning)

[Pipeline] echo

Cloning started

[Pipeline] git

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

using credential 7aa0f2e9-d09c-46a6-ba85-a230dffebea2

> C:\Program Files\Git\bin\git.exe rev-parse --resolve-git-dir

C:\ProgramData\Jenkins\jenkins\workspace\FirstPipeline\.git # timeout=10

Fetching changes from the remote Git repository

Create freestyle Jenkins pipeline to build and deploy a .NET Core API/Web App using Docker

```

rinnysenger@IN-DOB1213: ~
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
invoke-rc.d: could not determine current runlevel
Processing triggers for man-db (2.9.3-1) ...
Processing triggers for systemd (245.4-4ubuntu3.18) ...
piyushotama@IN-DOB1213:~$ sudo /etc/init.d/jenkins start
* Starting Jenkins Automation Server jenkins
Connect java version found
Setting up max open files limit to 8192

piyushotama@IN-DOB1213:~$ sudo nano /etc/default/jenkins
piyushotama@IN-DOB1213:~$ sudo /etc/init.d/jenkins start
* Starting Jenkins Automation Server jenkins
Connect java version found
Setting up max open files limit to 8192

piyushotama@IN-DOB1213:~$ sudo nano /etc/default/jenkins
piyushotama@IN-DOB1213:~$ sudo service jenkins restart
* Restarting Jenkins Automation Server jenkins
Connect java version found
Connect java version found
Setting up max open files limit to 8192

piyushotama@IN-DOB1213:~$ sudo /etc/init.d/jenkins start
* Starting Jenkins Automation Server jenkins
Connect java version found
Setting up max open files limit to 8192

piyushotama@IN-DOB1213:~$ sudo more /var/lib/jenkins/secrets/initialAdminPassword
c3e9b893d1ac4fb9979c0237842e0886
piyushotama@IN-DOB1213:~$ sudo usermod -s /bin/docker jenkins
[sudo] password for rinnysenger:
Sorry, try again.
[sudo] password for rinnysenger:
piyushotama@IN-DOB1213:~$ sudo service jenkins restart
* Restarting Jenkins Automation Server jenkins
Connect java version found
Connect java version found
Setting up max open files limit to 8192

piyushotama@IN-DOB1213:~$ sudo /etc/init.d/jenkins start

```

```
ON_STDERR=STDOUT
log location. this may be a syslog facility.priority
JENKINS_LOG=/var/log/$NAME/$NAME.log
JENKINS_LOG=daemon.info

Whether to enable web access logging or not.
Set to "yes" to enable logging to /var/log/$NAME/access_log
JENKINS_ENABLE_ACCESS_LOG="no"

OS LIMITS SETUP
comment this out to observe /etc/security/limits.conf
this is on by default because http://github.com/jenkinsci/jenkins/commit/2fb288474e980d0e7ff9c4a3b768874835a3e92e
reported that Ubuntu's PAM configuration doesn't include pam_limits.so, and as a result the # of file
descriptors are forced to 1024 regardless of /etc/security/limits.conf
MAXOPENFILES=8192

set the umask to control permission bits of files that Jenkins creates.
027 makes files read-only for group and inaccessible for others, which some security sensitive users
might consider beneficial, especially if Jenkins runs in a box that's used for multiple purposes.
Beware that 027 permission would interfere with sudo scripts that run on the master (JENKINS-25865.)

Note also that the particularly sensitive part of $JENKINS_HOME (such as credentials) are always
written without 'others' access. So the umask values only affect job configuration, build records,
that sort of things.

If commented out, the value from the OS is inherited, which is normally 022 (as of Ubuntu 12.04,
by default umask comes from pam_umask(8) and /etc/login.defs

UMASK=027

port for HTTP connector (default 8081; disable with -1)
HTTP_PORT=8081

servlet context, important if you want to use apache proxying

G Get Help      W Write Out    W Where Is     C Cut Text      J Justify      C Cur Pos      U Undo         M Mark Text    T To Bracket   P Previous
X Exit          R Read File    R Replace     V Paste Text  T To Spell    G Go To Line  M Redo        C Copy Text   W Where Was    N Next
```