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Subject: Created multiple projects and then integrated them into build pipeline view.

Continuous Integration Using Jenkins

Demo –1: Created Pipeline view using DevCompile and QUnitTest

The screenshot shows the Jenkins web interface. At the top, the Jenkins logo and navigation bar are visible. The main content area is titled "Enter an item name" and contains a text input field with the value "DevCompile". Below this, there are three options: "Freestyle project", "Maven project", and "Pipeline". The "Pipeline" option is selected. The URL bar shows "35.183.1.119:8080/job/DevCompile/configure". The "Source Code Management" tab is active, showing the "Repository URL" field with the value "https://github.com/edureka-git/DevOpsClassCodes.git". The "Credentials" dropdown is set to "- none -".

Jenkins

search

monitors 2

dhvani

log out

Jenkins > All >

Enter an item name

DevCompile

» 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.

Maven project
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

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.

← → ↺ 🏠

35.183.1.119:8080/job/DevCompile/configure

... 📌 🔍 Search

Jenkins > DevCompile >

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

Advanced...

Source Code Management

☐ None
☒ Git

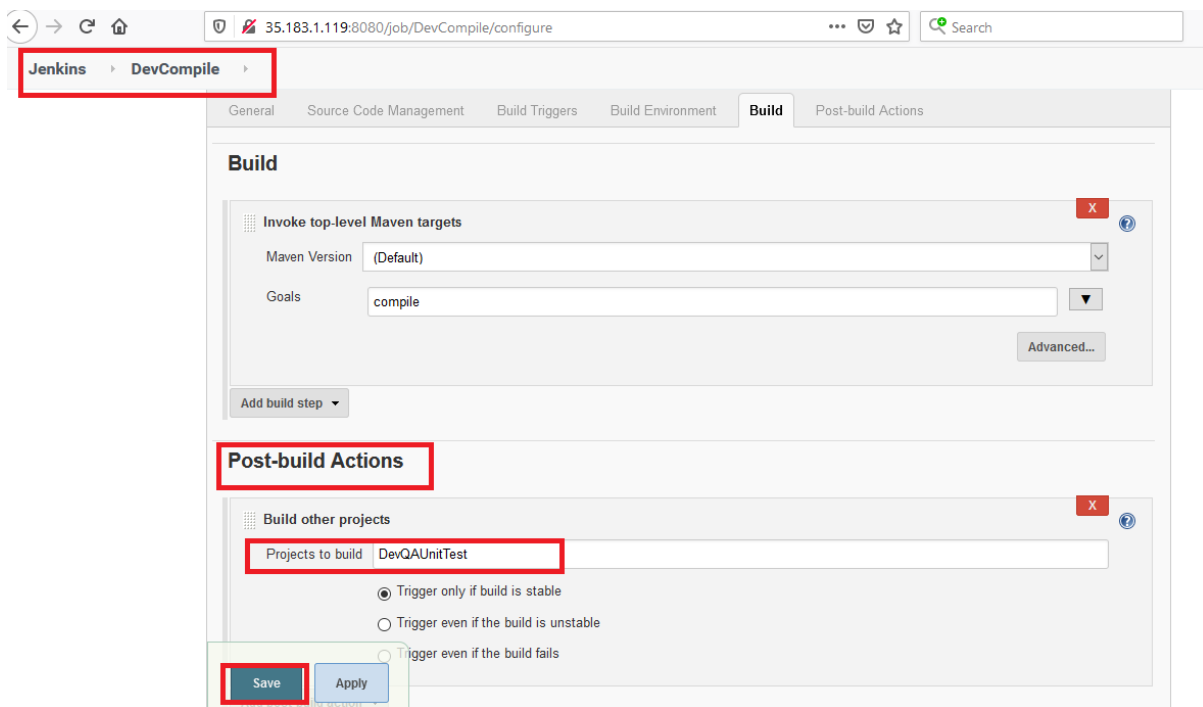
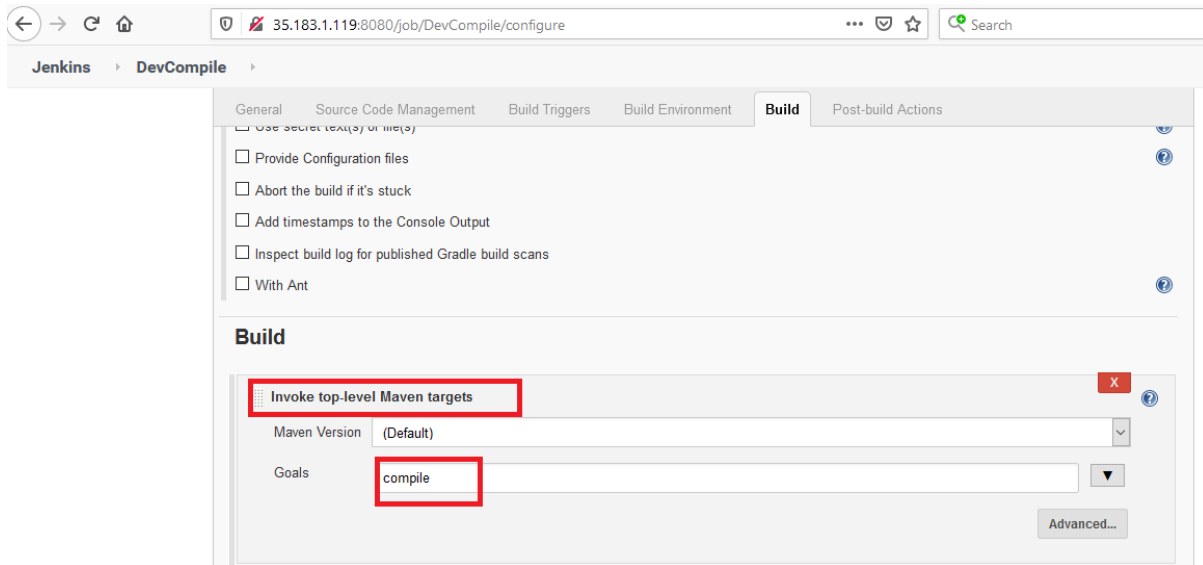
Repositories

Repository URL <https://github.com/edureka-git/DevOpsClassCodes.git> ⓘ

Credentials - none - ⓘ Add

Advanced...

Add Repository



Configure DevCompileproject and set post build action as QAUnitTest

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Project DevCompile

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Permalinks


Build History
[trend](#)

#1 Jul 19, 2020 2:51 AM

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Console Output

```
Started by user dhwani
Running as SYSTEM
Building on master in workspace /var/lib/jenkins/workspace/DevCompile
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git init /var/lib/jenkins/workspace/DevCompile # timeout=10
Fetching upstream changes from https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git fetch --version # timeout=10
> /usr/bin/git fetch --tags --progress https://github.com/edureka-git/DevOpsClassCodes.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/edureka-git/DevOpsClassCodes.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/edureka-git/DevOpsClassCodes.git # timeout=10
Fetching upstream changes from https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git fetch --tags --progress https://github.com/edureka-git/DevOpsClassCodes.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision c986b9eb275ae50c5a7b9b1d757be5c58e38c0da (refs/remotes/origin/master)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f c986b9eb275ae50c5a7b9b1d757be5c58e38c0da # timeout=10
Commit message: "initial commit"
```

Build Pipeline

[Run](#)
[History](#)
[Configure](#)
[Add Step](#)
[Delete](#)
[Manage](#)

Pipeline #1

#1 DevCompile

Jul 19, 2020 2:51:13 AM

7 sec

dhwani

#1 DevQAUnitTest

Jul 19, 2020 2:51:27 AM

0.5 sec

2 : Created The Whole Delivery Pipeline View

The screenshot displays the Jenkins web interface for the 'Project Compile_T' job. The top navigation bar shows 'Jenkins' and 'Compile_T'. The left sidebar contains links: 'Back to Dashboard', 'Status', 'Changes', 'Workspace', 'Build Now', 'Delete Project', 'Configure', and 'Rename'. The main area is titled 'Project Compile_T' and includes links for 'Workspace' and 'Recent Changes'. Below this is a 'Permalinks' section. The 'Build History' section shows a single build (#1) from Jul 19, 2020 3:00 AM. The bottom section, 'Console Output', shows the build log starting with 'Started by user dhwani' and 'Running as SYSTEM'. The log details the cloning of the repository, fetching upstream changes, and checking out the revision c986b9eb275ae50c5a7b9b1d757be5c58e38c0da.

Jenkins **Project Compile_T**

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Project Compile_T

[Workspace](#)
[Recent Changes](#)

Permalinks

Build History [trend](#)

find X

[#1](#) Jul 19, 2020 3:00 AM

Console Output

```
Started by user dhwani
Running as SYSTEM
Building on master in workspace /var/lib/jenkins/workspace/Compile_T
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git init /var/lib/jenkins/workspace/Compile_T # timeout=10
Fetching upstream changes from https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git --version # timeout=10
> /usr/bin/git fetch --tags --progress https://github.com/edureka-git/DevOpsClassCodes.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/edureka-git/DevOpsClassCodes.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/edureka-git/DevOpsClassCodes.git # timeout=10
Fetching upstream changes from https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git fetch --tags --progress https://github.com/edureka-git/DevOpsClassCodes.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision c986b9eb275ae50c5a7b9b1d757be5c58e38c0da (refs/remotes/origin/master)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f c986b9eb275ae50c5a7b9b1d757be5c58e38c0da # timeout=10
```

```

[INFO] -----
[INFO] Building Vaadin Addressbook example 2.0
[INFO] -----
[INFO]
[INFO] --- maven-enforcer-plugin:1.0:enforce (enforce-versions) @ addressbook ---
[INFO]
[INFO] --- maven-resources-plugin:2.5:resources (default-resources) @ addressbook ---
[debug] execute contextualize
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /var/lib/jenkins/workspace/Compile_I/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.2:compile (default-compile) @ addressbook ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 13 source files to /var/lib/jenkins/workspace/Compile_I/target/classes
[INFO] /var/lib/jenkins/workspace/Compile_I/src/main/java/com/edurekademo/tutorial/addressbook/ContactForm.java: Some input files use or
override a deprecated API.
[INFO] /var/lib/jenkins/workspace/Compile_I/src/main/java/com/edurekademo/tutorial/addressbook/ContactForm.java: Recompile with
-Xlint:deprecation for details.
[INFO] /var/lib/jenkins/workspace/Compile_I/src/main/java/com/edurekademo/tutorial/addressbook/backend/ContactService.java: /var/lib/jenkins
/workspace/Compile_I/src/main/java/com/edurekademo/tutorial/addressbook/backend/ContactService.java uses unchecked or unsafe operations.
[INFO] /var/lib/jenkins/workspace/Compile_I/src/main/java/com/edurekademo/tutorial/addressbook/backend/ContactService.java: Recompile with
-Xlint:unchecked for details.
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.813s
[INFO] Finished at: Sun Jul 19 03:00:55 UTC 2020
[INFO] Final Memory: 15M/36M
[INFO] -----
Finished: SUCCESS

```



Enter an item name

» 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.



Maven project

Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.



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.



Folder



Jenkins > CodeReview_T > #1

- Back to Project
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- Changes
- Console Output
- View as plain text
- Edit Build Information
- Delete build #1
- Git Build Data
- No Tags

Console Output

Shipping 4 KB. [Full Log](#)
 tps://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-sink-api/1.2/doxia-sink-api-1.2.pom
 2/2 KB
 2/2 KB
 Downloaded: <https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia-sink-api/1.2/doxia-sink-api-1.2.pom> (2 KB at 27.1 KB/sec)
 Downloading: <https://repo.maven.apache.org/maven2/org/apache/maven/doxia/doxia/1.2/doxia-1.2.pom>
 2/19 KB
 3/19 KB
 5/19 KB
 6/19 KB
 7/19 KB
 9/19 KB
 10/19 KB
 11/19 KB
 13/19 KB
 14/19 KB
 15/19 KB

1976/2049 KB
1980/2049 KB
1984/2049 KB
1988/2049 KB
1992/2049 KB
1996/2049 KB
2000/2049 KB
2004/2049 KB
2008/2049 KB
2012/2049 KB
2016/2049 KB
2020/2049 KB
2024/2049 KB
2028/2049 KB
2032/2049 KB
2036/2049 KB
2040/2049 KB
2044/2049 KB
2048/2049 KB
2049/2049 KB

Downloaded: <https://repo.maven.apache.org/maven2/net/sourceforge/pmd/pmd/5.1.2/pmd-5.1.2.jar> (2049 KB at 3600.4 KB/sec)
[WARNING] Unable to locate Source XRef to link to - DISABLED
[WARNING] Unable to locate Source XRef to link to - DISABLED
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.352s
[INFO] Finished at: Sun Jul 19 03:07:05 UTC 2020
[INFO] Final Memory: 15M/36M
[INFO] -----
Finished: SUCCESS

Enter an item name

» Required field



Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and then for something other than software build.



Maven project

Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as 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, parallel builds, etc.



Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, it creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.



GitHub Organization

Scans a GitHub organization (or user account) for all repositories matching some defined markers.

Jenkins > QAUnitTest_T > #1

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- [Console Output](#)
- [View as plain text](#)
- [Edit Build Information](#)
- [Delete build '#1'](#)
- [Git Build Data](#)
- [No Tags](#)

Console Output

```

Started by user dhvani
Running as SYSTEM
Building on master in workspace /var/lib/jenkins/workspace/QAUnitTest_T
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git init /var/lib/jenkins/workspace/QAUnitTest_T # timeout=10
Fetching upstream changes from https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git fetch --version # timeout=10
> /usr/bin/git fetch --tags --progress https://github.com/edureka-git/DevOpsClassCodes.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/edureka-git/DevOpsClassCodes.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/edureka-git/DevOpsClassCodes.git # timeout=10
Fetching upstream changes from https://github.com/edureka-git/DevOpsClassCodes.git
> /usr/bin/git fetch --tags --progress https://github.com/edureka-git/DevOpsClassCodes.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision c986b9eb275ae50c5a7b9bld757be5c58e38c0da (refs/remotes/origin/master)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f c986b9eb275ae50c5a7b9bld757be5c58e38c0da # timeout=10
Commit message: "initial commit"
First time build. Skipping changelog.
[QAUnitTest T] $ /var/lib/jenkins/tools/hudson.tasks.Maven.MavenInstallation/mymaven/bin/mvn test

```

```

Cause:at com.edurekademo.utilities.ExceptionThrower.doNothing(ExceptionThrower.java:18)
Cause:at com.edurekademo.utilities.TestLogger.testGetErrorMessage4(TestLogger.java:60)
[pool-1-thread-9] ERROR com.edurekademo.utilities.ExceptionThrower - java.lang.Exception: DEAR
Cause:at com.edurekademo.utilities.ExceptionThrower.doYYY(ExceptionThrower.java:35)
Cause:at com.edurekademo.utilities.ExceptionThrower.doXXX(ExceptionThrower.java:23)
[pool-1-thread-9] INFO com.edurekademo.utilities.TestLogger - java.lang.Exception: TEST MESSAGE
Cause:at com.edurekademo.utilities.ExceptionThrower.doCheck(ExceptionThrower.java:43)
Cause:at com.edurekademo.utilities.TestLogger.testGetErrorMessage5(TestLogger.java:75)
***** java.lang.Exception: TEST MESSAGE
Cause:at com.edurekademo.utilities.ExceptionThrower.doCheck(ExceptionThrower.java:43)
Cause:at com.edurekademo.utilities.TestLogger.testGetErrorMessage5(TestLogger.java:75)
Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.132 sec - in com.edurekademo.utilities.TestLogger
Running com.edurekademo.utilities.TestGenericComparator
Tests run: 14, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.055 sec - in com.edurekademo.utilities.TestGenericComparator

```

Results :

Tests run: 23, Failures: 0, Errors: 0, Skipped: 0

```

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 7.062 s
[INFO] Finished at: 2020-07-19T03:18:56Z
[INFO] -----
Finished: SUCCESS

```

Jenkins > All >

Enter an item name

» Required field



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A Pipeline View

