**JENKINS**

If yum update -y return the following msg (red) then type GREEN.

Text

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Vim into the Jenkins.repo file and then change gpgcheck=1 by gpgcheck=0

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Then run again yum update -y

Service Jenkins restart

When installer docker, put Jenkins in group docker using following steps:

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**Where is .bash\_profile in Linux?**

.bash\_profile is used for customizing the user configuration settings. This file is located **in the home directory** and is mostly hidden. The . bash\_profile files are considered as configuration scripts.

**What is a bash\_profile?**

bash\_profile file **contains commands for setting environment variables**. Consequently, future shells inherit these variables. In an interactive login shell, Bash first looks for the /etc/profile file. If found, Bash reads and executes it in the current shell. ... bash\_profile exists in the home directory.

**What does .bashrc mean?**

It stands for “**run commands**”. This comes from MIT's CTSS (Compatible Time-Sharing System) and Multics, where the idea that a command processing shell would be an ordinary program originated.

**Should I use bash\_profile or Bashrc?**

**bash\_profile** is great for commands that should run only once and . bashrc for commands that should run every time you start a new shell.

To make an alias for the Terminal in OS X, you can either put the aliases in .bash\_profile or .bashrc. What is the difference between the two and why would I choose to put aliases in one and not the other?

<https://apple.stackexchange.com/questions/51036/what-is-the-difference-between-bash-profile-and-bashrc>

What are the different types of projects in Jenkins?

**Q.45 What are the types of jobs or projects in Jenkins?**

* Freestyle project.
* Maven project.
* Pipeline.
* Multibranch pipeline.
* External Job.
* Multi-configuration project.
* Github organization

What is a freestyle project in Jenkins?

Freestyle means improvised or unrestricted. A freestyle project in Jenkins is **a project that spans multiple operations**. It can be a build, a script run, or even a pipeline. According to the official Jenkins wiki, a freestyle project is a typical build job or task.

Jenkins Freestyle Project is a repeatable build job, script, or pipeline that contains steps and post-build actions. It is an improved job or task that can span multiple operations. It allows **you to configure build triggers** and offers project-based security for your Jenkins project.

What scenario is a freestyle job best suited for?

Freestyle jobs are suitable for **simple CI/CD workflow accompanied by a simple branching strategy**. If you have multiple stages in your CI/CD design, then it's not the right fit.

What is the difference between freestyle project and pipeline in Jenkins?

Freestyle projects are for orchestration simple jobs for a project. Pipeline Project is **better either to set up a CD pipeline** or to define the deployment pipeline as code. The pipeline project is suitable to build pipelines for complex jobs whereas the freestyle project is suitable for simple jobs.

Maven Plugin

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What are artifacts in DevOps?

A DevOps artifact is **a by-product produced during the software development process**. It may consist of the project source code, dependencies, binaries or resources, and could be represented in different layout depending on the technology.

Artifacts can be **used to represent data created as a side-effect of running a Jenkins build**. Artifacts are files which are associated with a single build. ... This module provides a class called Artifact which allows you to download objects from the server and also access them as a stream.

What is artifact in build?

Build artifacts are **files produced by a build**. Typically, these include distribution packages, WAR files, reports, log files, and so on. When creating a build configuration, you specify the paths to the artifacts of your build on the Configuring General Settings page.

Where are artifacts stored in Jenkins?

JENKINS\_HOME directory

By default, Jenkins archives artifacts generated by the build. These artifacts are stored in **the JENKINS\_HOME directory** with all other elements such as job configuration files. There is no separation between infrastructure elements, project elements and outputs.

What is the use of Maven in Jenkins?

A maven is a **build tool designed to manage dependencies and the software lifecycle**. It is also designed to work with plugins that allow users to add other tasks to the standard compile, test, package, install, deploy tasks. Jenkins is designed for the purpose of implementing Continuous Integration (CI).

What is the benefit of integrating Maven with Jenkins?

Advantages of Using Maven and Jenkins  
Jenkins server **will act as a common server for client as well as technical people to logon to it and see all test reports and test execution history**. Maven in turn reduces dependency on hard coding of jars. Maven can make the build process very easy.

what is maven invoker used for in jenkins

The Invoker Plugin is used **to run a set of Maven projects**. The plugin can determine whether each project execution is successful, and optionally can verify the output generated from a given project execution.

what is maven integration used for in jenkins

Jenkins® parses **the Maven POM to gain a deeper understanding of your Maven project structure**. This knowledge is then used to visualize the build results more nicely, such as showing all the modules in the UI, or figuring out dependencies among them.

Jenkins® analyse le POM Maven pour mieux comprendre la structure de votre projet Maven. Ces connaissances sont ensuite utilisées pour mieux visualiser les résultats de la construction, comme afficher tous les modules dans l'interface utilisateur ou déterminer les dépendances entre eux.

What does POM stand for?

Project Object Model (Maven project file)

What is POM (in Maven) computer?

A **Project Object Model** or POM is the fundamental unit of work in Maven. It is an XML file that contains information about the project and configuration details used by Maven to build the project.

what is URI in computer terms

A **uniform resource identifier**, or **URI**, is a short string containing a name or address which refers to an object in the "web." Source(s): NIST SP 800-15. A compact sequence of characters that identifies an abstract or physical resource available on the Internet.

what is URL in computer terms

<https://docs.oracle.com/javase/tutorial/networking/urls/definition.html#:~:text=Definition%3A,the%20protocol%20identifier%20is%20http%20>.

Definition: URL is an **acronym for Uniform Resource Locator** (**URL**) and is a reference (an address) to a resource on the Internet.

A URL has two main components:

* Protocol identifier: For the URL http://example.com, the protocol identifier is http.
* Resource name: For the URL http://example.com, the resource name is example.com.

Note that the protocol identifier and the resource name are separated by a colon and two forward slashes. The protocol identifier indicates the name of the protocol to be used to fetch the resource. The example uses the Hypertext Transfer Protocol (HTTP), which is typically used to serve up hypertext documents. HTTP is just one of many different protocols used to access different types of resources on the net. Other protocols include File Transfer Protocol (FTP), Gopher, File, and News.

what is URN in computer terms

The development of networked information requires reliable ways to name resources on networks.

The Internet community has adopted the term, "**Uniform Resource Name** (**URN**)", for a name that identifies a resource or unit of information independent of its location. URNs are globally unique, persistent, and accessible over the network.

Difference between URI & URL

The terms “URI” and “URL” are often used interchangeably, but they are not exactly the same. **A URI is an identifier of a specific resource**. Like a page, or book, or a document. A URL is special type of identifier that also tells you how to access it, such as HTTPs , FTP , etc.

URI contains both URL and URN to identify the name and location or both of a resource; in contrast, URL is a subset of URI and only identifies the location of the resource. The example of URI is urn:isbn:0-476-27557-4, whereas the example of URL, is **https://google.com**.

**MAVEN COMMANDS CHEAT SHEET: clean package install**

<https://www.journaldev.com/33645/maven-commands-options-cheat-sheet>

<https://www.marcobehler.com/guides/mvn-clean-install-a-short-guide-to-maven>

Graphical user interface

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Graphical user interface, diagram, application, Teams

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**WHAT IS THE USE OF Goals and options in Build on Jenkins?**

Clean install package mean:

Maven will run

* mvn clean
* mvn install
* mvn package

JENKINS VARIABLES

<https://www.perforce.com/manuals/jenkins/Content/P4Jenkins/variable-expansion.html>

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