

Nexus Repository Manager



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1

Introduction to Repository Managers

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What do you know
about artifact
repositories ?

Type a few things...

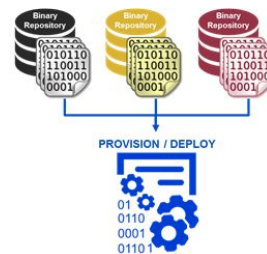


Students, write your response!

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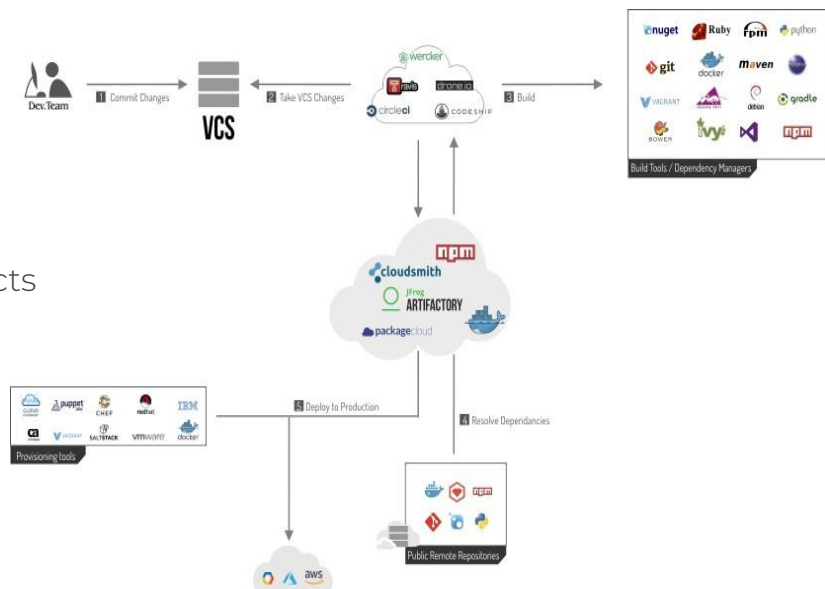
► Introduction to Artifact Repository

- Also called a **binary repository**.
- It is used for storing building blocks of a project in **binary code**.
- It is mainly used for **deployment processes** rather than development processes.



► Introduction to Repository Manager

- **Server applications** for managing repositories
- **Reduce the bandwidth** used for retrieving artifacts
- They provide a target for **deploying the artifacts**



Why use a Repository Manager?

Type a few things...



Students, write your response!

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Reasons to Use a Repository Manager

- ▶ Can be used as a **Maven Repository**
- ▶ It **saves up time** when downloading files
- ▶ Increases **standardization**
- ▶ Increases **collaboration**

What are the differences between Repository Managers and Version Control Repository?

Type a few things...



Students, write your response!

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► Reasons to Use a Repository Manager

- ▶ Binary files need **metadata** to be stored along with them.
- ▶ Binary files are **not cloned** the way source code is cloned
- ▶ Higher security in **repository managers**.

You manage what you code in Git, and what you build in Nexus.



2

Introduction to Nexus Repository

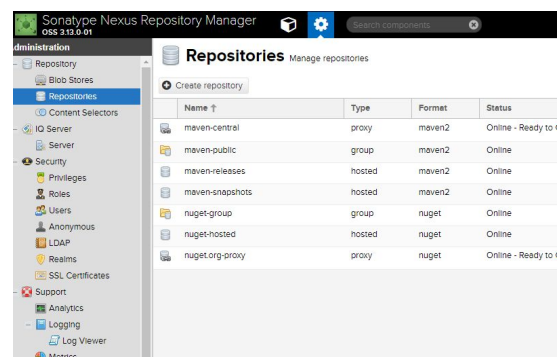
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What is Nexus?

- ▶ **Nexus** is the provider of one of the most popular **repository managers**.
- ▶ Compatible with many **popular tools**.

Use Your Favorite Tools.



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Why Prefer Nexus?

- ▶ Easy to **install and configure**.
- ▶ Fast and easy **searching**.
- ▶ **Manage multiple repositories** from different domains.



3

Components and Formats

What do you know about components and formats ?

Type a few things...



Students, write your response!

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What are Components?

- ▶ Components are the **building blocks** of the software.
- ▶ **Packages, libraries, containers** are examples of components.
- ▶ Open source components are available for use on the internet.
- ▶ Examples of component types:

Java byte code

C object files

XML,JS,HTML,CSS





What are Formats?

- ▶ Formats are **ways of storing** components.
- ▶ Every tool has a **different format**.
- ▶ Examples of formats:
maven2, nuget, docker...

Maven™



5 Repository Types

What are some of the repository types?

Type a few things...



Students, write your response!

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What are Repository Types?

- There are 3 repository types in Nexus:

Hosted, proxy and group repository.



maven2 (group)



maven2 (hosted)



maven2 (proxy)

What do you know about proxy repositories?

Type a few things...



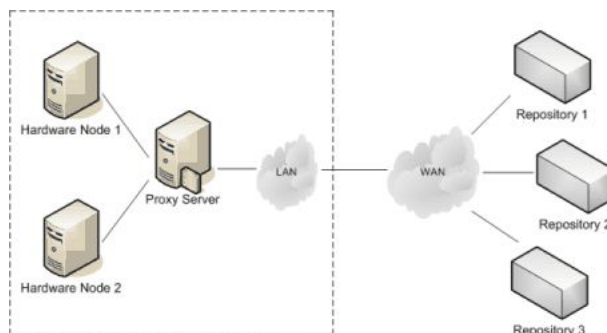
Students, write your response!

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Proxy Repository

- ▶ It is a **bridge** between the computer and remote repository.
- ▶ Components are **cached** in the proxy repository.
- ▶ **maven-central** and **nuget.org-proxy** are 2 built-in configured proxy repositories that come with Nexus Repository Manager.



What do you know about hosted repositories?

Type a few things...



Students, write your response!

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Hosted Repository

- ▶ It comes in handy when components are shared among different teams.
- ▶ Maven hosted repository consists of 2 separate repositories:

Snapshot repository and **release repository**.

Releases

A release repository is considered a production network

vs

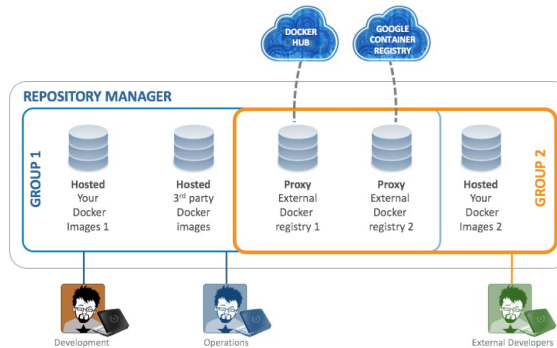
Snapshots

A snapshot repository is more like a development or a testing network



Group Repository

- ▶ It consists of **hosted**, **proxy** and other **group repositories**.
- ▶ Has its own **access point**.
- ▶ Both **remote** and **local** components can be accessed.



THANKS!

Any questions?

You can find me at:

- ▶ @Tyler - Instructor
- ▶ @David - Instructor

