

DevOps

▼ What is DevOps?

DevOps is **the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at high velocity**: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes.

▼ What are DevOps life cycle phases ?

There are a total of seven phases in the DevOps lifecycle – **Continuous development, continuous integration, continuous testing, continuous delivery, continuous feedback, continuous deployment, and continuous operations.**

▼ Tell us a few tools for every phase in devops?

Continuous Development – Git, SVN, Mercurial, CVS, and JIRA, Ant, Maven, Gradle.

Continuous Testing –Selenium, TestNG, JUnit

Continuous Deployment –Puppet, Chef, SaltStack, and Ansible

Continuous Monitoring –Splunk, ELK Stack, Nagios, NewRelic and Sensu.

▼ What are the benefits of DevOps ?

Unites teams for faster product shipments

Simplifies development focus

Renews focuses on the customers

Introduces automation to the development process

Supports end-to-end responsibility

▼ How does the organization get benefit from the use of DevOps culture ?

DevOps facilitates collaboration by breaking down the silos among Dev/Ops/QA teams and

encourages them to work together toward a single goal: **Creating more value**

for your organization, which will ultimately help you deliver more value to your customers.

▼ What are the git commands ?

1. Git clone 2. Git branch 3. Git checkout 4. Git status 5. Git add 6. Git commit 7. Git push 8. **Git pull** 9. **Git revert** 10. **Git merge**

▼ What is GitHub

GitHub is a **code hosting platform for version control and collaboration**. It lets you and others work together on projects from anywhere.

▼ How does the GitHub help us/developer

It **enables developers to upload their own code files and to collaborate with fellow developers on open-source projects**. GitHub also serves as a social networking site in which developers can openly network, collaborate, and pitch their work.

▼ Do you have an account with Github

Yes

▼ What is push and pull cmd

The git pull

the command is used to get updates from the remote repo. This command is a combination of **git fetch** and **git merge** which means that, when we use git pull, it gets the updates from remote repository (git fetch) and immediately applies the latest changes in your local (git merge).

The git push

After committing your changes, the next thing you want to do is send your changes to the remote server. Git push uploads your commits to the remote repository.

▼ What are the local and remote repository

Local repositories reside on the computers of team members. In contrast, remote repositories are hosted on a server that is accessible for all team members - most likely on the internet or on a local network.

▼ Is it possible to push without a commit command?

No, you must make a commit before you can push

▼ Is it possible to push/upload on GitHub without any git command ?

▼ What is CI/CD?

▼ What are the different ways to use/install Jenkins?

▼ What is a plugin in Jenkins?

Plugins are **the primary means of enhancing the functionality of a Jenkins environment to suit organization- or user-specific needs.**

There are over a thousand different plugins that can be installed on a Jenkins controller and integrate various build tools, cloud providers, analysis tools, and much more.

▼ Which plugin let you send email ?

Using **Email Extension Plugin** – This plugin lets you configure every aspect of email notifications. You can customize things such as when to send the email, who receives it, and what the email says.

▼ What is a .war file and How does maven help us in deploying an app

The . war (Web application ARchive) is a **packaging mechanism for putting together the application code of a web application to be deployed to a Servlet container.**