DEVOPS Interview Questions

✓ First and foremost question, Rolls and Responsibilities. In short, your daily work approach.

✓ Version of VCS you are using?

✓ How do you create a new user in VCS?

✓ Through which client, have you installed/using VCS? Is it, Apache or some other mode? Explain?

✓ Do you commit DB scripts with your source code as well?

✓ What according to you is a Release? And are you involved in Release process?

✓ How do you create a Branch? And can developers create their own branches?

✓ What branching strategy are you following? Explain?

✓ How many folders are you using in your branching strategy? And Why do they required?

✓ After Release 1, and while Release 2 is in process I have come up with   a P1 issue which should be fixed up right away. What is the strategy that you follow up in resolving it?

✓ What is Hotfix and Bugfix?

✓ What is Feature Branch? And its importance?

✓ How to take back up and load the Repository? Whats the command?

✓ Do U Merge the code? What are the Merge conflicts that you came across?

✓ Can you retrieve a set of revisions in to a particular file and display it?

✓ List out the Admin commands that you have used in your project?

✓ Have you written, Batch scripts? If yes in what case did you wrote it?

✓ How to send an email notification after my commit is successful?

✓ I have a scenario where every developer works on his own branch, Every developers develops his application code with different versions of software patch for example., Developer 1 works on Hibernate, Developer2 works on Spring, Developer 3 works on Struts. So as an SCM admin how do you maintain dependencies for these versions?

✓ When do you move the code base to Tag? After production or Before?

✓ BUILD Tool

✓ Version of Build Tools you are using?

✓ How do you pass parameters @ runtime?

✓ Difference between ear, war and jar?

✓ Where do you deploy the artifact in Tomcat?

✓ What is Maven script? How is it different from Ant?

✓ JENKINS

✓ Version of Jenkins?

✓ What is Master/Slave configuration? How do you configure it?

✓ What is executor? And its importance?

✓ How many ways can you create a project?

✓ How do you configure a project?

✓ I have my code base in two VCS, one is in GIT and the other is in SVN.

✓ How do you check out the code from these at a time in Jenkins?

✓ Can I commit code base in Jenkins?

✓ What is Ldap and how do you configure it?

✓ How do you create users?

✓ What is Freestyle project and a Maven Project?

✓ Cant I create or call a Maven script in Free style project?

✓ How do you create nightly builds? What is the Cron Syntax?

✓ What is CI and CD Job? Explain

✓ If every hour CI job gets triggered dont you think it leads to space constraints?

✓ How does my CD Job picks up the latest stable CI Job? Do you manually retrieve it or Do you pass any parameters to it?

✓ What are the plugins U have used? List few?

✓ How do you integrate Junit in Jenkins?

✓ Have you involved in static code analysis? If Yes, in what way have you implemented it?

✓ What is Sonar cube? How do you configure it?

✓ I have 3 Jobs to get triggered, 1st Job from Machine 1, 2nd Job from Machine 2 should get triggered. How do you configure it?

✓ What are Upstream and Down stream Jobs?

✓ What is Pipeline concept? How do you achieve it? When it is useful?

✓ What are Prebuild acivities and Post Build activities?

✓ How can I send an email to 50 developers at a time? How do you configure it?

✓ What is Jenkins workspace?

✓ How do you back up the Jenkins Jobs?

✓ How can I track the error if my build fails?

✓ What is Poll SCM

✓ I have a Release1 Parent Build called R1.1 which contains 100 child builds R1.1.1, R1.1.2, R1.1.3, R1.1.4, ...R1.1.100. Now, for Release 2, R2.1 should get all the child builds i.e., R1.1.1 to R1.1.100. Therefore, with out any human error all my child builds version numbers of Release 1 should automatically changed to R2.1.1 R2.1.2 and so on. How is this achieved?

✓ SHELL SCRIPTING

✓ Why Shell scripting? Why is it is used for?

✓ Which shell are you are using? And how many types of Shells are there?

✓ If Ant can deploy the artifcats what is the need of Shell?

✓ What is the difference between Shell and Powershell?

✓ Few questions on commands like "grep,sed,touch, head, tail, username -a, username -r, pid and ppid, to kill a process, chmod, awk, alias

✓ What is Shebang in Shell script? And its syntax?

✓ Execute shell script with command line properties?

✓ What is $0,$1,$*,$#,$$,$?,$@?

✓ What the deployment script you wrote can you explain?

✓ How do you establish connection with your remote server, Command?

✓ How to copy binaries to the remote server, Command?

✓ How to bypass validation every time you copy binaries? How do you achieve it?

✓ What is the port number of your application?

✓ What is the port number of Sonar?

✓ Port number of MySql?

✓ Where do you save up the information about the challenges you have faced in every release? Do you maintain Wiki or Knowledge base some kind??

✓ In how many ways, can you create a file and access it?

✓ What is Catalina.jar, Catalina_Home and What is JSS in Tomcat?

PRABHAKAR FACED INTERVIEW QUESTIONS:

✓ ***Can you explain your day to day activities as a DevOps Engineer????????????

✓ Difference between Countinuous Delivery and Continuous Deployement?

✓ How do you take Jenkins Backup?

✓ How do setup Environments(Dev,QA,UAT,Pre-production,Production)

✓ in devops?

✓ What is Continuous Integration & Continuous Deployement(CI&CD)?

✓ What is Continuous Integration(CI)?

✓ What is Continuous Deployement(CD)?

✓ What kind of issues you are facing in Jenkins?

✓ What are the important tags in POM.XML file,Can you explain some tags?

✓ What is DevOps pipeline,Can you explain it?

✓ Can you tell me some important plugins in jenkins and what do you know?

✓ How to integrate Jenkins with GIT,MAVEN,SONARQUBE,NEXUS,TOMCAT?

✓ How to create a job explain in step by step details(General,SCM,Build Triggers,Build Actions ,PostBuild Actions)?

✓ Where Builds are stored ,Where jobs are stored?

✓ How many jobs and environments you create and manage in jenkins?

✓ We have to remember all configuration files about(Git,MAVEN,JENKINS,SONARQUBE,NEXUS,TOMCAT,NAGIOS,APACHE)

✓ We have to remember all ports including(JENKINS,SONARQUBE,NEXUS,TOMCAT,NAGIOS,APACHE)

✓ Where will you get issues while merging branches & how will you resolve merge conflicts ?

✓ Jenkins follows which architecture?

Ans: Master Slave Architecture

✓ Which strategy you are following for deployment release into production server?

Ans:

✓ What are the issues/errors you are facing regularly or recently in Jenkins?

✓ What is the life cycle of maven? What are the issues/errors you are facing regularly or recently in maven?

✓ How to integrate maven with Jenkins?

Maven Interview Questions

✓ Explain Maven Build Lifecycle?
✓ What is convention over configuration. How does maven use it?
✓ What are the phases of Build Life cycle and Clean life cycle? What happens in each phase?
✓ Explain maven dependency
✓ When does maven use external dependency?
✓ What is Build profile and what are the different types of Build Profile?
✓ What are the different types of Maven Repositories? (or) they may ask difference between types of maven repositories
✓ what is the sequence in which maven search for dependencies?
✓ What is the difference between snapshot and version in maven?
✓ What is system dependency and transitive dependency in Maven?
✓ How profiles are specified in maven?
✓ Explain about all the dependency scopes in Maven

GIT Interview Questions

✓ What is the difference between GIT and SVN?
✓ Advantages of using GIT?
✓ What is STAGING area and INDEX in GIT?
✓ What is the difference between GIT PUSH and COMMIT? When they are used?
✓ What is GIT STASH?
✓ How do you create a branch in GIT?
✓ How do you merge code from branch to master in GIT?
✓ How do you confirm if GIT branch has merged into master?
✓ What is HEAD in GIT? How many HEADS you can create in GIT?
✓ What does "git config" do?
✓ Learn about all the commands in GIT. Interviewer may ask indirectly about how can u acheive one scenario. You should be able to tell him the command to use.
✓ What is the purpose of branching in GIT? What is the common branching pattern in GIT?
✓ How can u resolve conflict in GIT? Interviewer may also ask you to explain one scenario how you resolved conflicts in GIT in your current project.

✓ Major difference B/W Application and Web server ?
✓ How many servers do u have?As you cannot deploy a War file in Apache Tomcat what other server do u use?
✓ U have 2 releases scheduled today?one is in the QA phase and other is in the Production phase.

✓ The one in Production phase is getting errors and you cannot move further what will you do?

✓ Is it possible to move a War or Ear file from QA stage to UAT and Production stage?

✓ How will move a War or Ear to UAT and Production environment which completed a successfull

JENKINS

✓ Master slave configuration and how do you connect to jenkins from slave machine?

✓ Build Pipelines?

✓ I have two Jobs, I want first job should get executed from Master and the other Job from slave. How to acheive this?

✓ Difference between freestyle project and Maven based project?

✓ Ldap configuration

✓ Whats the difference between LDAP and Email notification?.

✓ How to auto deploy a war file into tomcat? (process)

✓ You can deploy it in many ways

▪ Using Tomcat manager

▪ unsing ant script by downloading catalina.jar file and define custome ant tasks

▪ You can deploy using Jenkins by placing the war file in webapps

▪ You can deploy using shell scripts by placing the war file in webapps

▪ How to deploy a war file into tomcat by shellscripting(process) when you are working on linux machine?

✓ Make use of scp command in shellscript to copy the war file to tomcat webapps directory

✓ what would you do if your servers are of linux machines and you are working on windows machine, when you are doing automation and deployment ?

✓ I will make use of pscp and plink to do the deployment and perform the actions on linux server from windows

✓ why do use jenkins instead of ant as both tools are used for the same purpose like building artifacts and deploy those to servers ?

✓ How you will deploy the same .war file in multiple servers

✓ What is the process you will follow to give the installable file to client.

✓ How do you convert .war file into .msi file(installable file)

✓ How to run the file.sh shell script in ant.

✓ How to call a target of another file with in the different file.

✓ What is Jenkins

✓ What is the difference between Jenkins and Hudson

✓ What SCM tools does Jenkins support

✓ How can you tell what version of Jenkins you are using?

✓ What is continuous integration in Jenkins

✓   What are the pre-requisites for using Jenkins

✓   How can you move or copy Jenkins from one server to another server

✓   Commands to use to start Jenkins manually

✓   What are the most useful plugins in Jenkins

✓   How to create a Jenkins job and what are the types

✓   What are the two components that Jenkins mainly integrate with?

✓   What is the default session timeout value in Jenkins and How can you increase the session timeout value?

✓   Explain about Jenkins security mechanism

✓   How can you pass parameters from one job to another job in Jenkins?

✓   Explain about build pipeline in Jenkins

✓   How can someone execute the jobs in Jenkins without having permissions to execute the job?

✓   How to re-execute a parameterized build job without entering the parameter values when the job fails? Note:- Job should not ask for parameters and it should run with the values of parameters that you entered during previous execution

✓   How to install plugins in Jenkins

✓   How can configure slaves/nodes in Jenkins

✓   How to run jobs in slaves