**GIT**

**1) What is GIT?**

**2) What is a repository in GIT?**

**3) What is the command you can use to write a commit message?**

**4) What is the difference between GIT and SVN?**

**5) What are the advantages of using GIT?**

**6) What language is used in GIT?**

**7) What is the function of ‘GIT PUSH’ in GIT?**

**8) Why GIT better than Subversion?**

**9) What is “Staging Area” or “Index” in GIT?**

**10) What is GIT stash?**

**11) What is GIT stash drop?**

**12) How will you know in GIT if a branch has been already merged into master?**

**13) What is the function of git clone?**

**14) What is the function of ‘git config’?**

**15) What does commit object contain?**

**16) How can you create a repository in Git?**

**17) What is ‘head’ in git and how many heads can be created in a repository?**

**18) What is the purpose of branching in GIT?**

**19) What is the common branching pattern in GIT?**

**20) How can you bring a new feature in the main branch?**

**21) What is a ‘conflict’ in git?**

**22) How can conflict in git resolved?**

**23) To delete a branch what is the command that is used?**

**24) What is another option for merging in git?**

**25) What is the syntax for “Rebasing” in Git?**

**26) What is the difference between ‘git remote’ and ‘git clone’?**

**27) What is GIT version control?**

**28) Mention some of the best graphical GIT client for LINUX?**

**29) What is Subgit? Why to use Subgit?**

**30) What is the function of ‘git diff ’ in git?**

**31) What is ‘git status’ is used for?**

**32) What is the difference between the ‘git diff ’and ‘git status’?**

**33) What is the function of ‘git checkout’ in git?**

**34) What is the function of ‘git rm’?**

**35) What is the function of ‘git stash apply’?**

**36) What is the use of ‘git log’?**

**37) What is ‘git add’ is used for?**

**38) What is the function of ‘git reset’?**

**39) What is git Is-tree?**

**40) How git instaweb is used?**

**41) What does ‘hooks’ consist of in git?**

**42) Explain what is commit message?**

**43) How can you fix a broken commit?**

**44) Why is it advisable to create an additional commit rather than amending an existing commit?**

**45) What is ‘bare repository’ in GIT?**

**46) Name a few Git repository hosting services**

**LINK FOR ABIVE QUESION AND ANSWERS:** <https://career.guru99.com/top-40-interview-questions-on-git/>

**GIT HUB**

1. **What Is Github?**
2. **What Is Github Link?**
3. **Is Github Open Source Software?**
4. **How Does Github Help In Collaborating With Other Developers?**
5. **What Is A Git Pull?**
6. **What Is Github Handle?**
7. **What Is Repo?**
8. **How To Use Github?**
9. **How Can We Create A Branch In Github?**
10. **What Is A Github Fork?**
11. **What Is A Branch On Github?**
12. **Can We Change Our Github Username?**
13. **How it is possible for a developer to simply update the remote references related to the different objects?**
14. **Is it possible in Git to merge a branch into the master? How can you find the same?**
15. **What is gist programming?**
16. **What language is used in GIT?**
17. **What are the advantages of Git over SVN?**
18. **What is cherry-pick in Git?**
19. **What is origin in Git?**
20. **How Much Space Do We Get On Github?**
21. **How can the users enhance the functionality of a branch in Git?**
22. **What is the significance of Git version control?**
23. **Can We Delete The Github Account?**
24. **What is the conflict situation in Git and how it can be solved?**
25. **What is branching it Git and what are its benefits?**
26. **What Is The Difference Between Bit Bucket And Github?**
27. **Name any two Git repository hosting services that are common**
28. **Are you familiar with the Git Clone?**
29. **How To Upload Files To Github?**
30. **What Is a Staging Environment?**
31. **Explain Github Workflow?**
32. **What Is A Commit?**
33. **Can Developers Test-drive Their Projects On Github?**
34. **What Is The Basic Function Of Github?**
35. **How many characters are there in the SHAI name?**
36. **What Is A Star In Github?**
37. **How Can We Create A Gist?**
38. **Do you think GitHub is better as compared to Subversion of same? Why or why not?**
39. **What Is A Gist Programming?**
40. **What is the upper limit on the heads in the Gits?**
41. **What Does It Mean To Star A Repo In Github?**
42. **How to Add Files to the Local Repository in GitHub?**
43. **How to Switch Branch in GitHub?**
44. **How it is possible for you as a user of Git to define the information of a user, behavior of a repository as well as the information of preferences in the programming?**
45. **Merge Command.**
46. **Can you tell us a few benefits of using GitHub over other platforms?**
47. **Explain Git Development Process in Detail?**
48. **Name the tool that can be deployed for Git migration?**
49. **How to Clone Repository from GitHub?**
50. **How to Switch Branch in GitHub?**

**LINK FOR ABIVE QUESION AND ANSWERS:** https://www.devopsschool.com/blog/top-50-interview-questions-and-answers-of-github/

DOCKER

**1.What is the difference between a container and a virtual machine?**

**2.What is Docker Engine?**

**3.What is a Docker image?**

**4.What is Docker Hub?**

**5.How do you create a Docker container from an image?**

**6.What is a Dockerfile?**

**7.Talk about hypervisors and their functions.**

**8.How do you build a Docker image using a Dockerfile?**

**9.How do you start and stop a Docker container?**

**10.List down the components of Docker.**

**11.How do you remove a Docker container?**

**12.How can you remove all stopped containers and unused networks in Docker?**

**13.When a container exists, is it possible for you to lose data?**

**14.What is Docker Compose?**

**15.Is there a limit on how many containers you can run in Docker?**

**16.Differentiate between Container Logging and Daemon Logging.**

**17.How will you use Docker for multiple application environments?**

**18.Does Docker provide support for IPV6?**

**19.How do you scale Docker containers horizontally?**

**20.What is the difference between the CMD and ENTRYPOINT instructions in a Dockerfile?**

**21.What is the purpose of volumes in Docker?**

**22.Is it possible for a container to restart by itself?**

**23.How do you expose ports in a Docker container?**

**24.How do you pass environment variables to a Docker container?**

**25.What is the difference between Docker restart policies "no", "on-failure", and "always"?**

**26.What is the purpose of the Docker registry?**

**27.What is the difference between a Docker image and a container?**

**28.How do you update a Docker image?**

**30.What is the purpose of the CMD instruction in a Dockerfile?**

**31.How do you inspect the metadata of a Docker image?**

**32.What is Docker Swarm?**

**33.What is the difference between a Docker container and a Kubernetes pod?**

**34.How does Docker handle container isolation and security?**

**35.What is the purpose of a Docker volume driver?**

**36.How do you deploy a Docker container to a remote host?**

**37.What are the benefits of using Docker in a microservices architecture?**

**38.How do you debug issues in a Docker container?**

**39.What is the purpose of the "docker exec" command?**

**40.How do you limit the CPU and memory usage of a Docker container?**

**41.What is the significance of the "Dockerfile.lock" file?**

**42.How do you create a multi-stage build in Docker?**

**ANISIBLE**

**1. What Is Ansible ?**

**2. What Is Inventory ?**

**3. Explain The Concept Of Configuration Management And Its Importance In IT Operations.**

**4. What Are The Features Of Ansible ?**

**5. Describe Infrastructure As Code (IaC) And How Ansible Aligns With This Concept.**

**6. Explain Ansible Galaxy, modules, And Plugins In The Context Of Ansible Automation.**

**7. What Are Ansible Tasks, And How Do They Contribute To The Automation Process?**

**8. What Makes Ansible Stand Out From Other Configuration Management Tools?**

**9.Briefly Explain Ansible’s Architecture Through Outlining Its Different Components.**

**10. What Is The Foundational Programming Language Of Ansible?**

**11. What are handlers in Ansible, and how are they used in playbooks?**

**12. Explain The Concept Of Ansible Roles And Their Significance In Playbook Organization.**

**13. How Do You Set Up a Basic Ansible Playbook to Install a Package On a Group Of Servers?**

**14. What is Ansible?**

**15. What are the key features of Ansible?**

**16.How does Ansible work?**

**17.What is an Ansible playbook?**

**18.Explain the structure of an Ansible playbook.**

**19.What is an Ansible role?**

**20.How do you create a role in Ansible?**

**21.What is an Ansible inventory?**

**22.Explain the difference between static and dynamic inventory in Ansible.**

**23.What is an Ansible module?**

**24.Can you name some commonly used Ansible modules?**

**25.How do you install Ansible?**

**26.What is an ad-hoc command in Ansible?**

**27.How do you run an ad-hoc command in Ansible?**

**28.What is the use of the ansible.cfg file?**

**29.What is a task in Ansible?**

**30.How do you handle errors in Ansible playbooks?**

**31.What is a handler in Ansible?**

**32.How do you use variables in Ansible?**

**33.What are facts in Ansible?**

**34.How do you gather facts in Ansible?**

**35.What is the difference between a playbook and a role in Ansible?**

**36.How do you secure sensitive data in Ansible?**

**37.What is Ansible Vault?**

**38.How do you create an encrypted file using Ansible Vault?**

**39.How do you use Ansible Vault in a playbook?**

**40.What are the different types of variables in Ansible?**

**41.How do you pass variables to a playbook?**

**42.What is the with\_items directive in Ansible?**

**43.What is the difference between include and import in Ansible?**

**44.How do you use loops in Ansible?**

**45.What is a block in Ansible?**

**46.How do you use conditionals in Ansible playbooks?**

**47.What is a filter in Ansible?**

**48.How do you use templates in Ansible?**

**49.What is the template module in Ansible?**

**50.How do you manage dependencies in Ansible roles?**

**51.What is an Ansible Galaxy?**

**52.How do you install roles from Ansible Galaxy?**

**53.What is the ansible-playbook command used for?**

**54.How do you test Ansible playbooks?**

**55.What is Ansible Tower?**

**56.What are the features of Ansible Tower?**

**57.How do you integrate Ansible with Jenkins?**

**58.What is the delegate\_to directive in Ansible?**

**59.How do you run a playbook on a specific host in an inventory?**

**60.How do you debug an Ansible playbook?**

**61.What is a callback plugin in Ansible?**

**62.What are the different ways to notify handlers in Ansible?**

**63.How do you use tags in Ansible playbooks?**

**TERRAFORM**

1. **What is Terraform?**
2. **What are the key features of Terraform?**
3. **Explain the architecture of Terraform.**
4. **What is a Terraform provider?**
5. **What is a Terraform configuration file?**
6. **What is the difference between terraform apply and terraform plan?**
7. **What is a Terraform state file?**
8. **Why is Terraform state important?**
9. **What is a remote backend in Terraform?**
10. **How do you manage Terraform state in a team?**
11. **What are Terraform modules?**
12. **How do you create a Terraform module?**
13. **What is the purpose of the terraform init command?**
14. **Explain the terraform validate command.**
15. **What is the purpose of the terraform fmt command?**
16. **What is the terraform taint command used for?**
17. **What is the terraform import command used for?**
18. **What is a data source in Terraform?**
19. **Explain the terraform destroy command.**
20. **What is the purpose of the terraform output command?**
21. **How do you handle secrets and sensitive data in Terraform?**
22. **What is the terraform workspace command used for?**
23. **What is the terraform refresh command used for?**
24. **Explain the purpose of the count parameter in Terraform.**
25. **What is the for\_each meta-argument in Terraform?**
26. **How do you manage provider versions in Terraform?**
27. **What is the difference between local and remote state in Terraform?**
28. **Explain the purpose of the terraform lock command.**
29. **What is the terraform state command used for?**
30. **What is the terraform graph command used for?**
31. **Explain the lifecycle meta-argument in Terraform.**
32. **What is the terraform state rm command used for?**
33. **How do you define dependencies between resources in Terraform?**
34. **What is the purpose of the terraform state mv command?**
35. **Explain the provisioner block in Terraform.**
36. **What is the null\_resource in Terraform?**
37. **What are output variables in Terraform?**
38. **How do you use local values in Terraform?**
39. **What is the purpose of the terraform console command?**
40. **Explain the ignore\_changes argument in the lifecycle block.**
41. **What are resource taints in Terraform?**
42. **What is the purpose of the terraform state show command?**
43. **How do you manage resource creation order in Terraform?**
44. **What is the terraform state pull command used for?**
45. **Explain the terraform show command.**
46. **What is the terraform state list command used for?**
47. **How do you use variables in Terraform?**
48. **What is the terraform output command used for?**
49. **Explain the terraform init command.**
50. **What is the terraform state push command used for?**
51. **How do you use terraform plan effectively?**
52. **What is the terraform apply command used for?**
53. **Explain the terraform validate command.**
54. **What is the purpose of the terraform fmt command?**
55. **What is the terraform taint command used for?**
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98. **Explain the purpose of the terraform output command.**
99. **How do you handle secrets and sensitive data in Terraform?**

**100.What is the terraform workspace command used for?**

**JENKINS**

1. **What is Jenkins?**
2. **What are the key features of Jenkins?**
3. **Explain the architecture of Jenkins.**
4. **What is a Jenkins job?**
5. **What is a Jenkins pipeline?**
6. **What is a Jenkins node?**
7. **What is a Jenkins agent?**
8. **What are Jenkins plugins?**
9. **How do you install Jenkins?**
10. **What is Jenkins Blue Ocean?**
11. **How do you secure Jenkins?**
12. **What is the role of Jenkinsfile in Jenkins?**
13. **What is a Jenkins shared library?**
14. **What are the types of pipelines in Jenkins?**
15. **How do you create a Jenkins job?**
16. **What is a Jenkins freestyle project?**
17. **Explain how Jenkins can be integrated with Git.**
18. **How do you trigger a build in Jenkins?**
19. **What is Jenkins Pipeline as Code?**
20. **What are Jenkins declarative and scripted pipelines?**
21. **How do you configure Jenkins to use a specific JDK?**
22. **What are Jenkins build triggers?**
23. **What is the purpose of the Jenkins workspace directory?**
24. **How do you manage Jenkins plugins?**
25. **What is Jenkins distributed build architecture?**
26. **How do you set up a Jenkins slave node?**
27. **What is a Jenkins executor?**
28. **What is a Jenkins build artifact?**
29. **How do you backup and restore Jenkins configurations?**
30. **What is the Jenkins security realm?**
31. **How do you integrate Jenkins with Maven?**
32. **How do you use Jenkins with Docker?**
33. **What is the Jenkins Pipeline Stage?**
34. **How do you create and manage Jenkins credentials?**
35. **What is Jenkins multibranch pipeline?**
36. **How do you use Jenkins environment variables?**
37. **How do you configure Jenkins notifications?**
38. **What is a Jenkins build step?**
39. **How do you implement CI/CD with Jenkins?**
40. **What is the purpose of Jenkins agents?**
41. **How do you optimize Jenkins performance?**
42. **What are common Jenkins issues and how do you troubleshoot them?**
43. **What is Jenkins Job DSL?**
44. **How do you handle long-running builds in Jenkins?**
45. **What are the benefits of using Jenkins shared libraries?**
46. **How do you set up Jenkins for high availability?**
47. **What is Jenkins fingerprints?**
48. **How do you manage Jenkins nodes and executors?**
49. **What is Jenkins pipeline syntax?**
50. **How do you monitor Jenkins?**
51. **How do you use Jenkins environment variables in pipelines?**
52. **How do you configure Jenkins to use a proxy server?**
53. **What is Jenkins build parameter?**
54. **How do you handle Jenkins job dependencies?**
55. **How do you use Jenkins with Ansible?**
56. **What is Jenkins pipeline agent?**
57. **How do you use Jenkins with Kubernetes?**
58. **What are Jenkins build wrappers?**
59. **How do you set up Jenkins master-slave architecture?**
60. **What is Jenkins input step?**
61. **How do you use Jenkins Groovy scripts?**
62. **What is Jenkins build timeout?**
63. **How do you use Jenkins with AWS?**
64. **What are Jenkins post-build actions?**
65. **How do you use Jenkins with Azure?**
66. **What is Jenkins declarative pipeline syntax?**
67. **How do you use Jenkins with GCP?**
68. **What is Jenkins scripted pipeline syntax?**
69. **How do you use Jenkins with Chef?**
70. **How do you manage Jenkins job configurations as code?**
71. **What is Jenkins Blue Ocean?**
72. **How do you use Jenkins with GitHub?**
73. **What are Jenkins input parameters?**
74. **How do you configure Jenkins pipeline libraries?**
75. **What is Jenkins declarative pipeline agent?**
76. **How do you use Jenkins with Bitbucket?**
77. **What are Jenkins build triggers?**
78. **How do you manage Jenkins job history?**
79. **What is Jenkins pipeline stage?**
80. **How do you use Jenkins with GitLab?**
81. **How do you optimize Jenkins pipeline performance?**
82. **How do you implement Jenkins security best practices?**
83. **What is Jenkins build pipeline view?**
84. **How do you handle Jenkins pipeline errors?**
85. **What is Jenkins pipeline shared library?**
86. **How do you manage Jenkins plugins?**
87. **What is Jenkins pipeline parallel execution?**
88. **How do you use Jenkins pipeline conditions?**
89. **What is Jenkins pipeline post section?**
90. **How do you use Jenkins pipeline environment variables?**
91. **How do you troubleshoot Jenkins build failures?**
92. **What are Jenkins build artifacts?**
93. **How do you debug Jenkins pipelines?**
94. **What is Jenkins pipeline as code?**
95. **How do you handle Jenkins job concurrency?**
96. **What is Jenkins build discard policy?**
97. **How do you monitor Jenkins performance?**
98. **What is Jenkins pipeline input step?**
99. **How do you manage Jenkins job configurations?**

**100.What are Jenkins pipeline stages?**

**KUBERNETES**

1. **hat is Kubernetes?**
2. **What are the key components of Kubernetes architecture?**
3. **What is a Kubernetes Pod?**
4. **What is a Kubernetes Deployment?**
5. **What is a Service in Kubernetes?**
6. **What is a Namespace in Kubernetes?**
7. **What is etcd in Kubernetes?**
8. **What is a ConfigMap?**
9. **What is a Secret in Kubernetes?**
10. **What is a ReplicaSet?**
11. **What is a StatefulSet?**
12. **What is a DaemonSet?**
13. **What is a Job in Kubernetes?**
14. **What is a CronJob?**
15. **What is Kubernetes RBAC?**
16. **What are Kubernetes labels and selectors?**
17. **What is a Kubernetes Volume?**
18. **What is a PersistentVolume (PV)?**
19. **What is a PersistentVolumeClaim (PVC)?**
20. **What is a StorageClass?**
21. **What is Helm in Kubernetes?**
22. **What is a Kubernetes Ingress?**
23. **What is a NetworkPolicy?**
24. **What is the purpose of the Kubernetes CNI (Container Network Interface)?**
25. **How does Kubernetes handle load balancing?**
26. **What is the difference between ClusterIP, NodePort, and LoadBalancer services?**
27. **What is Kubernetes RBAC (Role-Based Access Control)?**
28. **What is a Kubernetes Pod Security Policy (PSP)?**
29. **What is Kubernetes Pod Security Standards (PSS)?**
30. **What is Kubernetes Pod Security Context?**
31. **What is Kubernetes Service Discovery?**
32. **What are Kubernetes Network Policies?**
33. **How does Kubernetes manage Secrets and ConfigMaps?**
34. **What is Kubernetes Role-Based Access Control (RBAC)?**
35. **What is the difference between a ClusterRole and a Role in Kubernetes?**
36. **What is a Kubernetes Service Account?**
37. **What is a Kubernetes API aggregation layer?**
38. **How do you secure communication between Pods in Kubernetes?**
39. **What is Kubernetes Volume Binding Mode?**
40. **What is a Kubernetes StatefulSet volume claim template?**
41. **What is a Kubernetes Deployment Strategy?**
42. **What is a blue-green deployment strategy in Kubernetes?**
43. **What is a canary deployment strategy in Kubernetes?**
44. **How do you manage application configurations in Kubernetes?**
45. **What are Kubernetes labels and annotations?**
46. **How do you use Kubernetes Helm charts for deployments?**
47. **What is a Kubernetes StatefulSet and when should you use it?**
48. **What is a Kubernetes DaemonSet and when should you use it?**
49. **How do you manage Kubernetes application rollouts and rollbacks?**
50. **How do you debug a failed Kubernetes Pod?**
51. **How do you check the status of a Kubernetes Deployment?**
52. **How do you handle Node failures in Kubernetes?**
53. **What is a Kubernetes control plane and its components?**
54. **How do you monitor and troubleshoot Kubernetes clusters?**
55. **What is the purpose of Kubernetes kubectl command-line tool?**
56. **How do you handle resource constraints and limits in Kubernetes?**
57. **What is the difference between kubectl exec and kubectl logs?**
58. **How do you scale a Kubernetes Deployment?**
59. **How do you ensure high availability in a Kubernetes cluster?**
60. **What is Kubernetes service discovery?**
61. **What are Kubernetes Network Policies?**
62. **What is Kubernetes API Server?**
63. **What is the Kubernetes Scheduler?**
64. **What is the Kubernetes Controller Manager?**
65. **What is a Kubernetes Admission Controller?**
66. **How do you handle Node failures in Kubernetes?**
67. **What is Kubernetes CNI (Container Network Interface)?**
68. **How do you secure Kubernetes cluster communications?**
69. **What is the purpose of Kubernetes kubectl command-line tool?**
70. **How do you configure Kubernetes deployments with Helm charts?**
71. **What is Kubernetes ConfigMap and how is it used?**
72. **What is the role of Kubernetes etcd?**
73. **What is the difference between StatefulSet and Deployment?**
74. **How do you use Kubernetes with Prometheus for monitoring?**
75. **What is Kubernetes API aggregation layer?**
76. **How do you use Kubernetes Network Policies to secure your cluster?**
77. **How does Kubernetes manage Secrets and sensitive data?**
78. **What is Kubernetes Cluster Autoscaler?**
79. **How does Kubernetes handle application scaling?**
80. **What is Kubernetes Vertical Pod Autoscaler (VPA)?**
81. **What is the difference between a Pod and a Container?**
82. **How do you perform a rolling update in Kubernetes?**
83. **What is a Kubernetes CronJob and how does it work?**
84. **How do you create and manage Kubernetes namespaces?**
85. **What are Kubernetes PersistentVolumeClaims (PVC)?**
86. **How does Kubernetes manage storage resources?**
87. **What is the role of Kubernetes Kubelet?**
88. **How do you configure Kubernetes network policies?**
89. **What are Kubernetes Volumes and how are they used?**
90. **What is the purpose of Kubernetes Pod Disruption Budgets?**
91. **How do you manage Kubernetes application configurations?**
92. **How does Kubernetes handle distributed stateful applications?**
93. **What is a Kubernetes Job and how is it used?**
94. **What are the key differences between Kubernetes Pods and Containers?**
95. **How do you troubleshoot issues in a Kubernetes cluster?**
96. **What are some best practices for securing a Kubernetes cluster?**
97. **What is a Kubernetes Deployment and how does it manage Pods?**
98. **What is the role of Kubernetes Controller Manager in managing resources?**
99. **How do you monitor and analyze logs in Kubernetes?**

**100.What are the key features and benefits of Kubernetes?**

**MAVEN .**

1. **What is Maven?**
2. **What is a pom.xml file?**
3. **What are the different phases of the Maven build lifecycle?**
4. **What is a Maven dependency?**
5. **What is the Maven repository?**
6. **What is a Maven plugin?**
7. **What is the difference between compile, provided, runtime, test, and system scopes in Maven?**
8. **What is a Maven artifact?**
9. **What is a Maven profile?**
10. **What is the purpose of the mvn clean command?**
11. **What is the difference between mvn install and mvn deploy?**
12. **What is the purpose of the mvn package command?**
13. **What are Maven phases?**
14. **How does Maven manage dependencies?**
15. **What is the mvn dependency:tree command used for?**
16. **How do you exclude transitive dependencies in Maven?**
17. **What is the purpose of the mvn site command?**
18. **What is a Maven parent POM?**
19. **How do you define a Maven dependency in the pom.xml file?**
20. **What is a Maven repository manager?**
21. **What is the Maven Build Helper plugin used for?**
22. **How do you create a multi-module Maven project?**
23. **What is a Maven snapshot version?**
24. **How do you deploy a Maven artifact to a remote repository?**
25. **What are Maven goals?**
26. **How do you specify the Java version in Maven?**
27. **What is the purpose of the mvn validate command?**
28. **What is a Maven execution?**
29. **What is the Maven settings.xml file used for?**
30. **What is a Maven profile and how is it used?**
31. **How do you manage plugin versions in Maven?**
32. **What is the mvn verify command used for?**
33. **What is a Maven archetype?**
34. **What is the purpose of the mvn test command?**
35. **How do you handle version conflicts in Maven dependencies?**
36. **What is the difference between mvn install and mvn deploy?**
37. **How do you add a new source directory in Maven?**
38. **What is a Maven build profile and how do you define one?**
39. **What is a Maven plugin goal?**
40. **What is the purpose of the mvn install command?**
41. **How do you create a custom Maven plugin?**
42. **What is a Maven dependency scope?**
43. **How does Maven handle dependency transitivity?**
44. **What is the mvn clean install command?**
45. **How do you configure a Maven repository in pom.xml?**
46. **What is the purpose of the mvn dependency:resolve command?**
47. **What are Maven release and snapshot versions?**
48. **What is a Maven build profile and how do you activate one?**
49. **How do you add custom properties in Maven?**
50. **What is the role of the Maven mvn deploy:deploy-file goal?**