1. What is Vagrant box?
2. What is the purpose Vagrant and how would you use it?
3. How to prepare your own Vargant box?
4. How to create several VMs with single Vagrantfile. How can we connect to VMs in this case?
5. How to configure Host<->Guest file exchange in Vagrant?
6. How to migrate VM from one VB-host to another using Vagrant?
7. What for are we using git stash?
8. You have just saved your script controlled by git by mistake. Nothing was commited. How to restore your script?
9. What types of git merge strategies do you know?
10. You need to merge your branch into master but your branch is very old (i.e master branch is ahead by a couple of commits). Please describe the set of git commands you will use to merge it.
11. What is a way to simply replace by git one file with the another version of this file stored in another brach?
12. What is a meaning of Host and Guest in VirtualBox?
13. How would you troubleshoot network issues? (DNS, Connectivity)
14. How would you troubleshoot operating system issues? (Storage, CPU, Memory)
15. Why do we need to use version control systems?
16. What file should never be commited to Git repo? Name the examples of such files and why they should not be commited.
17. What is the purpose of Terraform tool?
18. What is the difference between Terraform local and remote states?
19. Difference between IAM user and IAM role and policy.
20. What is instance userdata?
21. What is AMI (amazon machine image)? is it possible to build your own AMI ?
22. What is S3 bucket? for which purposes can it be used ?
23. AWS RDS, purpose, engines, security.
24. Autoscaling group/launch configuration, purpose, definition, ussage.
25. EBS volumes, snapshots, S3.
26. Difference between public and private subnets. What is routing table, NAT and Internet Gateways.
27. Cloud concepts. What is region, availability zone.
28. What is Maven and what it is used for?
29. What are the Maven naming conventions? Which three attributes identify an artifact?
30. What are the Maven goals?
31. What Is pom.xml? What information does pom.xml contain?
32. What Is Maven Artifact?
33. What is a Maven Repository? Where is the local repository located?
34. What is the purpose of the settings.xml file? Why credentials are stored in this file, not in pom.xml?
35. What is the reason to use Artifactory? How to configure packages deployment to an Artifactory server?
36. What is the purpose of Maven Plugins? How to call plugin goals?
37. What are Maven modules?
38. What is SDLC?
39. What Phases of SDLC do you know?
40. What is a Webhook and why we use it for Jenkins jobs? Have you tried to configure it?
41. What is the difference between a Freestyle project and a Pipeline project?
42. What Jenkins plugins have you used? Why do we need Jenkins plugins?
43. What is a Jenkinsfile?
44. What is the difference between continuous delivery and continuous deployment?
45. What is the role of configuration management systems?
46. What is idempotency?
47. What is a role in Ansible? For which purposes should we use it?
48. For which purposes should we use Ansible-vault ?
49. For which purposes could we use tags in Ansible?
50. What it is template? How and why should we use them? Talk about jinja filters.
51. What are the prerequisites to run Ansible playbook on remote system?
52. What are facts in Ansible?
53. Talk about variables precedence in Ansible.
54. What is Docker Container?
55. What is a Docker Registry?
56. What are Docker Objects?
57. What is Dockerfile used for?
58. Mention some commonly used Docker command.
59. What is the difference between Add and Copy command in a Dockerfile?
60. Describe Kubernetes basic architecture components.
61. Describe deployment types and it's usecases.
62. What is Service used for ?
63. Describe different Service types.
64. What Liveness probe does and it's difference from Readines probe.
65. Using Volumes in Kubernetes.
66. How to propagate credentials.
67. Why would we need to use resouce request/limit?
68. kubectl get po -> No resources found. Does it mean there no pods in the Kubernetes cluster?
69. How to place resources to desired node/group of nodes?
70. Init container usecases.
71. Describe ways to propagate configmap data.
72. kubectl set image deploy nginx-deployment nginx=nginx:1.16.1 what this command does and how the process run