

DevOps

OS: LINUX

1. Linux Introduction
2. Flavours of Linux
3. Linux History
4. Linux Advantages
5. System Information
6. Hardware Information
7. File Commands
8. VIM Editor
9. Users & Groups
10. File Permissions
11. SED Filters
12. GREP Filters
13. Package Installation
14. Some additional commands
15. Assignment

SCM TOOLS - GIT:

1. WHAT IS VCS
2. VCS HISTORY
3. SCCM
4. REVISION CONTROL SYSTEM
5. SUBVERSION
6. CONCURRENT VERSIONS SYSTEM
7. WHY GIT
8. GIT STAGES
9. WORKING DIRECTORY
10. STAGING AREA
11. REPOSITORY (LOCAL, CENTRAL, REMOTE)
12. GIT INSTALLATION
13. GIT LIFECYCLE
14. GIT LOGS
15. GIT PUSH
16. GIT PULL
17. GIT CLONING
18. GIT BRANCH
19. GIT MERGE
20. GIT STASH
21. GIT CHERRY PICK
22. GIT REVERT
23. GIT MERGE
24. MERGE CONFLICTS
25. Assignment

Our Courses

Java Full Stack, Dotnet Full Stack, Python Full Stack, Data Science (AI & ML), Front End – Angular, Front End – React, Testing, Tools – QA, Digital Marketing, Tally, MS Office, C & DS, Java, Advanced Java, Azure Devops, UI Technologies

GITHUB

1. GIT REPOS (PRIVATE & PUBLIC)
 2. INTEGRATING REPOS
 3. FORKING
 4. GITHUB FILEADD
 5. TOKENS
 6. COMPARE & PULL REQUEST
 7. RENAMING REPOS
 8. DANGER ZONE OPTIONS
 9. MAKING PUBLIC REPO AS PRIVATE
 10. OWNERSHIP TRANSFER
 11. ARCHIVING REPOS
 12. DELETING REPOS
 13. ACCESSING THE PRIVATE REPOS
 14. ADVANTAGES & DISADVANTAGES
 15. INTERVIEW QUESTIONS
- BUILD TOOLS - MAVEN

INTEGRATION TOOL - JENKINS:

1. INTRODUCTION
2. WORKFLOW
3. CONTINUOUS INTEGRATION
4. CONTINUOUS DELIVERY
5. CONTINUOUS DEPLOYMENT
6. JENKINS SETUP
7. JENKINS SETUP REQUIRMENTS
8. JAVA INSTALLATION
9. GIT INTEGRATION
10. MAVEN INTEGRATION
11. JOBS TYPES IN JENKINS
12. FREE STYLE JOB
13. PIPELINE
14. MAVEN JOB, TASK
15. PARAMETER BUILDING
16. CHOICE PARAMETER
17. FILE PARAMETER
18. STRING PARAMETER
19. SCHEDULE PROJECT
20. CRON JOBS
21. POLL SCM
22. WEBHOOKS

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23. LINKED PROJECTS
24. UP STREAM
25. DOWN STREAM
26. BUILD PIPELINE VIEW
27. MASTER – SLAVE ARCHITECTURE
28. MASTER – SLAVE SETUP
29. DISABLING JOBS
30. RENAMING JOBS
31. SHELL EXECUTE
32. PIPELINES
33. SCRIPTED PIPELINES
34. DECLARATIVE PIPELINES
35. PIPELINE STAGES
36. PIPELINE SYNTAX
37. HELLO WORLD PIPELINE
38. STAGED PIPELINE
39. MULTI-STAGED PIPELINE
40. PIPELINE AS A CODE
41. MULTIPLE COMMANDS ON PIPELINE
42. BUILD HISTORY
43. CRON SYNTAX GENERATOR
44. AGENT SETUP
45. USER MANAGEMENT
46. ADDING USERS
47. ASSIGNING ROLES
48. MANAGING ROLES
49. BLUE OCEAN INTRODUCTION
50. ADVANTAGES
51. JENKINS ALTERNATIVES
52. INTERVIEW QUESTION

CONTAINERIZATION TOOL - DOCKER :

1. MICROSERVICES INTRODUCTION
2. DIFFERENCE BETWEEN MONLITHIC & MICROSERVICES
3. MICRO SERVICES ADVANTAGES
4. MICRO SERVICES LIMITATIONS
5. VIRTUALIZATION INTRO
6. DOCKER VS VMS VS SERVERS
7. BEFORE DOCKER VS AFTER DOCKER
8. DOCKER INTRODUCTION
9. UNDERSTANDING DOCKER
10. DOCKER ARCHITECTURE
11. DOCKER CLIENT
12. DOCKER SERVER
13. DOCKER DAEMON

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14. DOCKER OBJECTS
15. DOCKER BASIC COMMANDS
16. STOP VS KILL
17. RUN VS CMD VS ENTRYPOINT
18. ADD VS COPY
19. RUN VS PULL
20. DOCKER EXEC
21. CONTAINER LIMITS
22. DOCKER IMAGES
23. DOCKER CONTAINERS
24. DOCKER SWARM
25. DOCKER SWARM ARCHITECTURE
26. DOCKER SWARM COMPONENTS
27. DOCKER SWARM MANAGER
28. DOCKER SWARM WORKER
29. DOCKER VOLUMES
30. WORKING WITH CONTAINERS
31. BUILD IMAGE FROM CONTAINER
32. CREATING CUSTOM IMAGES
33. WAYS OF CONTAINER CREATION
34. DOCKER FILE
35. DOCKER FILE COMPONENTS
36. DOCKER FILE CREATION
37. DOCKER SWARM SERVICE
38. DOCKER COMPOSE
39. DOCKER COMPOSE ADVANTAGES
40. DOCKER COMPOSE INSTALLATION
41. DOCKER COMPOSE FILE
42. DOCKER COMPOSE FILE IN JSON
43. DOCKER COMPOSE FILE IN YAML
44. DOCKER COMPOSE SINGLE SERVICE
45. DOCKER COMPOSE MULTI SERVICES
46. DOCKER COMPOSE FILE COMMANDS
47. DOCKER COMPOSE SCALE
48. DOCKER STACK
49. DOCKER NETWORKS
50. INTERVIEW QUESTIONS

KUBERNETES

1. History
2. CONTAINER ORCHESTRATION
3. KUBERNETES INTRODUCTION
4. ARCHITECTURE
5. MASTER COMPONENTS
6. NODE COMPONENTS

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7. WORKING WITH K8s
8. ROLE OF MASTER
9. COMPONENTS OF CONTROL PLANE
10. KUBE-API SERVER
11. ETDC
12. FEATURES
13. KUBE-SCHEDULER
14. CONTROL MANAGER
15. NODE COMPONENTS
16. KUBELET
17. CONTAINER ENGINE
18. KUBE-PROXY
19. POD
20. MINIKUBE INTRO
21. SINGLE NODE CLUSTER
22. REPLICASET
23. DRAWBACK OF REPLICA SET
24. DAEMONSET
25. DRAWBACK OF DAEMON SET
26. DEPLOYMENTS
27. LABELS & SELECTORS
29. SCALING PODS
30. KOPS
31. KOPS ADATNAGES
32. KOPS INSTALLATION
33. KUBECTL INSTALLATION
34. CLUSTER CREATION USING KOPS
35. CLUSTER SCALING
36. SERVICE IN KUBERNETES
37. TYPES OF SERVICES
38. CLUSTER IP
39. NODE PORT
40. LOAD BALANCER
41. NAMESPACES
42. STATEFULL APPLICATION
43. STATELESS APPLICATION
44. STATEFULL VA STATLESS APPLICATION
45. WORKING WITH STATEFUL APPLICATIONS
46. WORKING WITH STATELESS APPLICATIONS
47. INTERVIEW QUESTIONS

**MONITORING : PROMETHEUS & GRAFANA
CONFIGURATION MANAGEMENT TOOL - ANSIBLE**

1. ANSIBLE INTRODUCTION
2. ANSIBLE USECASES

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3. ANSIBLE HISTORY
4. ANSIBLE ARCHITECTURE
5. AD-HOC COMMANDS
6. WORKING WITH ADHOC
7. ANSIBLE MODULES INTRODUCTION
8. WORKING WITH ANSIBLE MODULES
9. ANSIBLE PLAYBOOKS
10. YAML INTRODUCTION
11. YAML INDENTATION
12. COMMENTING SECTIONS
13. ANSIBLE VARIABLES
14. ANSIBLE HANDLERS
15. ANSIBLE LOOPS
16. ANSIBLE CONDITIONS
17. ANSIBLE VAULT
18. ANSIBLE ROLES
19. ANSIBLE TAGS
20. ANSIBLE PIP
21. ANSIBLE USERINFO
22. ANSIBLE RAW MODULE
23. ANSIBLE COMMAND MODULE
24. ANSIBLE COPY MODULE
25. ANSIBLE SHELL
26. CREATING LOCAL RESOURCES
27. STATIC WEBSITE USING PLAYBOOK
28. ADVANTAGES & DISADVANTAGES
29. INTERVIEW QUESTIONS
30. INTERVIEW QUESTIONS

INFRA AS A CODE TOOL - TERRAFORM AZURE AS WILL AS IN AWS

- INTRODUCTION
- HISTORY
- ADVANTAGES & DIS ADVANTAGES
- TERRAFORM SETUP & INSTALLATION
- TERRAFROM INIT
- TERRAFORM PLAN
- TERRAFORM APPLY
- TERRAFORM DESTROY
- WHAT IS TERRAFORM
- WHY TERRAFORM
- TERRAFORM WORKFLOW
- TERRAFORM IMPORTANT POINTS
- TERRAFORM AZURE AD AUTHORIZATION
- CREATEING A RESOURCE GROUP
- 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 1. 15.

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CREATEING STORAGE ACCOUNTS
UPLOADING A BLOB
CREATEING VIRTUAL NETWORK
CREATEING SUBNET
CREATEING NETWORK INTERFACE
CREATEING A VM
CREATEING LOADBALANCER
16. 17. 18. 19. 20. 21.

SSSIT

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