

learning plan for Devops

1. About Devops

1. Learn About SDLC Model
2. what is Agile Model
3. Need OF Devops Model
4. Pros / Cons Of Devops

2. Linux / Unix

1. What is Unix
2. benefits and flavors of UNIX
3. what is kernel
4. what is shell
5. Basic Command Of UNIX
6. types of package in different-2 Unix flavor

3. Version Control System (Git)

1. what is version control system (vcs)
2. need of VCS
3. git architecture
4. how code is stored in git / how git compare files difference
5. basic command related to
 - a. clone
 - b. pull
 - c. push
 - d. diff
 - e. log
 - f. status
 - g. reset
 - h. branching
 - i. ref log
 - j. commit
 - k. add
6. snapshots in git
7. objects in git
8. need to know basic about GITHUB also (if already know then optional)

4. Jenkins

1. what is Jenkins
2. installation of Jenkins
3. What is CI / CD
4. difference between continuous delivery & continuous deployment
5. artifacts
6. all about jobs
7. pipeline
8. type of pipeline
9. connect Jenkins with GitHub
10. read all about build options
11. what is Jenkins file and how to create

5. Amazon Web Services

1. what is AWS and Why we need
2. Type of EC2 instance
3. purchasing options of instance
4. security groups
5. what is volume in EC2
6. type of Storage
7. create EC2 instance
8. user data in EC2
9. S3 buckets storage
10. VPC
11. subnet
12. load balancer in EC2
13. auto scaling group

6. Terraform

1. what is Terraform
2. create EC2 instance from Terraform
3. create Load balancer
4. create VPC

7. Ansible

1. what is ansible
2. playbook , Ad-Hoc command, modules
3. Handlers, variables, dry-run, loops
4. roles, conditions, vaults

8. Docker

1. what is docker
2. docker architecture
3. o.s level virtualisation
4. creation of docker file
5. docker volumes
6. port mapping, restart container, expose
7. type of image creation in docker
8. docker hub
9. how to push / pull image from docker hub
10. create a sample php / mysql project in docker container

9. Kubernetes

1. real complete book kubernetes in actions

10. Azure Devops

1. what is repository
2. what is pipeline

3. board
4. artifacts