AWS weekend task

1. Prepare a short note of What is an IP address? How many types of IP addresses with examples.
2. Make a note of AWS global infrastructure.
3. Prepare a 4 page website using an anchor tag.
4. Install nginx on server using amazon linux2 AMI and create custom.html response by default.
5. Launch Ubuntu server, create one website of html using shell script.

(Note: Every thing write in shell script, When you hit public IP of server your website should be run)

1. Write the different between
2. HTTP and HTTPS
3. TCP and UDP
4. Write the short notes of following topics
5. OSI model and explain all layer of OSI
6. EIP
7. Take an AMI of any one region instance and launch the server in another region using the same AMI.
8. Prepare notes for Mysql, AMI, LAMP & LEMP server and EBS.
9. Launch one server and create one website. Add 8GB additional volume and mount volume.

1. Create one Company database, create an employee table having fields id (primary key), name, Contact-no, Address, Email-id, salary, Designation. Insert at least 5 records and fetch data from using different-2 select query.
2. Create one custom working VPC with 2 subnets (private and public) in any region.

1. In the same custom working VPC, launch one webserver and one DB server. Connect DB server with Web Server.

Or

Launch one Bastion host and connect the private server using the bastion host.

1. Launch two instances using as below:

- Manual scaling

- Automatic scaling

15. We have 4 server, all server have different php/html page, create ALB using round robbin policy

16. If server CPU utilization inc 50% we want more 2 server and if CPU utilization dec 20% we want only 2 server.

1. Create LB using instance refresh.
2. Make note of following topics

-All types of ec2 instance type

1. While launching the ec2 instance without giving key and value ec2 not able to launch (search and do)

**Key Value**

Name Your name

emailID Your Email Id

phone no Your mobile no

Place Pune

1. Create a static website of 4 pages using s3 service.
2. Make note of following topics

- s3 storage classes

- EBS vs EFS vs S3

1. Create custom working VPC and launch bastion host server using CLI.
2. Create a programme in shell script
3. If file is available read the file content, if not have file shows “file not exist” (take input from users)
4. Search directory on server, if not present create directory. (take input from users)
5. Create 6 IAM group for list given below:

|  |  |  |
| --- | --- | --- |
| **Group Name** | **Description** | **Policies** |
| Admin | Full Adminstrative access to the AWS account | IAM access |
| Billing | Access to billing information and cost report (Billing, Cost Explorer) | Billing read only |
| Auditor | Full read only permissions to the AWS account | Read Only |
| Network-Admin | Full Adminstrative access to the AWS account | VPC, EC2, Route53, ELB, Cloud formation, Cloud Front |
| Server-Admin | Full Adminstrative access to the AWS account | Compute service |
| Security-Admin | Administrative access to the AWS security services and APIs (IAM,SecurityHub,CloudWatch,GaurdDuty) | IAM read only access,Security hub full access, Cloud watch full access, GuardDuty Full access |

Assign each group 2 -2 IAM user.

1. Create a lambda function for stop and start ec2- instances.