

Q1. A Food based Startup wants to setup its internal network. Answer the following

- a) Explain the difference between **public IP** and **private IP** addresses. Give an example of when each is used.
- b) What is a **CIDR block**? If the company has been assigned  $192.168.0.0/24$ , how many usable IP addresses are available?
- c) If a company wants to block a few websites so that employees cannot visit them using the company's internet, where can this configuration be done while setting up the network?

Q2. Draw a simple diagram showing:

- A VPC with one **public subnet** and one **private subnet**.
  - Divide the IPs between public and private subnet
- Firewall with inbound and outbound rules to configure access
- Which data of an organization will reside in public and private subnet.
  - Explain how user can reach from the internet to private subnet.