17.17.Apr.ServerTypes,AWS S3

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Unix/Linux/Mac
- ➢ Command Line(Prompt)

Bare metal
VirtualBox
        Windows --> VC++ + MS.Net Framework
Cloud
        Web

Server = Antivirus
Client

Server
   a. Physical Server(Hardware)
        a. Workstation Server
        b. Blade Server
        c. Rack Server
   b. Logical Server (Software/Instance/Virtual Machine)
        a. Web Server
             i. Apache2
             ii. Httpd
             iii. nginx
             iv. Microsoft IIS
        b. Application Server
             i. Tomcat
             ii. Microsoft IIS
        c. Load Balancer Server
             i. Nginx
             ii. F5 Load Balancer
        d. Proxy Server
             i. Nginx
        e. VPN Server(Virtual Private Network)
             i. Open VPN
             ii. Nord VPN
             iii. Express VPN
        f. Database Server(SQL)
             i. mysql
             ii. Oracle E2
             iii. MS SQL Server
        g. NoSQL Server(NoSQL)
             i. Cassandra
             ii. Hive
        h. Streaming Server
             i. Kafka
             ii. AWS Kinesis

Open VPN

- ➢ Install VPN
- ➢ Configure & Login
- ➢ LAN Mode

R2(Mumbai)
    L4

R1(Hyd)
    L1
    L2
    L3
    L4
    WM1
    TV1
    M1
    M2
    M3

Web Server:- Serve Web Pages(Static/Dynamic)
    Apache2
- ○ Basic Functionality
    - ▪ Configure(Port)
- ○ Static Web Page
    - ▪ HTML
    - ▪ CSS
    - ▪ Javascript
- ○ Dynamic Web Page
    - ▪ PHP
    - ▪ Python(Flask, Django)
    - ▪ JSP/Java Spring Boot
- ○ Accessing through:
    - ▪ Curl
    - ▪ Web Browser
    - ▪ 3rd party Software/Tool

1. Planning for Web Server
2. Order/Prepare Operating System Machine
3. Connecting through Protocol (ssh = Language)
4. Deployment
    a. Installation
    b. Configuration

1. Planning for Web Server
    a. Hardware(Laptop/ VBox/ Cloud)
        i. CommandPrompt\$ subst e: C:\
    b. Operating System(Unix=Linux- Debian[Kali] /Mac)
2. Order/Prepare OS
    a. \$ UserName: kali
    b. \$ Password: kali

S3 = Simple Storage Service

Billing

Repository
Github --> Code Repository
S3   --> Artifact Repository
AMI   --> Operating System Repository
Hub   --> Container Repository

Practical:
1. Create S3 Bucket
2. Make Public ACL Enabled
3. UnBlock Public Access
4. Upload Object(File)
5. Make Public using ACL to Object(File)

arn:aws:s3:::bkt-17thapril-project1/devopspractice.pem
https://bkt-17thapril-project1.s3.amazonaws.com/devopspractice.pem

https://bkt-17apr0846-mujahed.s3.amazonaws.com/mujahed.pem