WHY BUILD A LAB IN THE CLOUD?

- Cost efficiency.

- Scalability.

- Accessibility

- High Availablity.

BUILDING AWS HOME LAB

1. Create an AWS account.

2. Secure Account using the MFA authentication.

3. Configure the Billing alarm.

4. Create a Non-Root User.

5. Create a Virtual Private Cloud (VPC).

6. Launch Elastic Compute Cloud Instance(EC2).

7. Terminate EC2.

BUILDING AWS HOME LAB

1. **CREATE AN AWS ACCOUNT.**
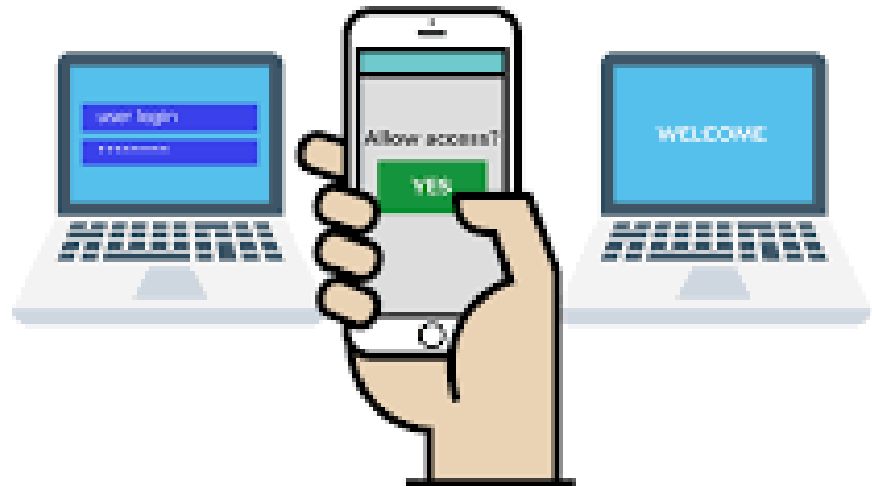
BUILDING AWS HOME LAB

1. CREATE AN AWS ACCOUNT.

2. **SECURE THE ACCOUNT USING THE MFA AUTHENTICATION.**

MULTIFACTOR AUTHENTICATION

1. Adds an additional level of security.

2. Secures Root account.

3. Prevents any unauthorized access.

Multi-Factor Authentication (MFA)

BUILDING AWS HOME LAB

1. CREATE AN AWS ACCOUNT.

2. SECURE THE ACCOUNT USING THE MFA AUTHENTICATION.

3. CONFIGURE THE BILLING ALARM.

BILLING ALARM

- cloud charges can add up quickly.

- Have control over all your costs.
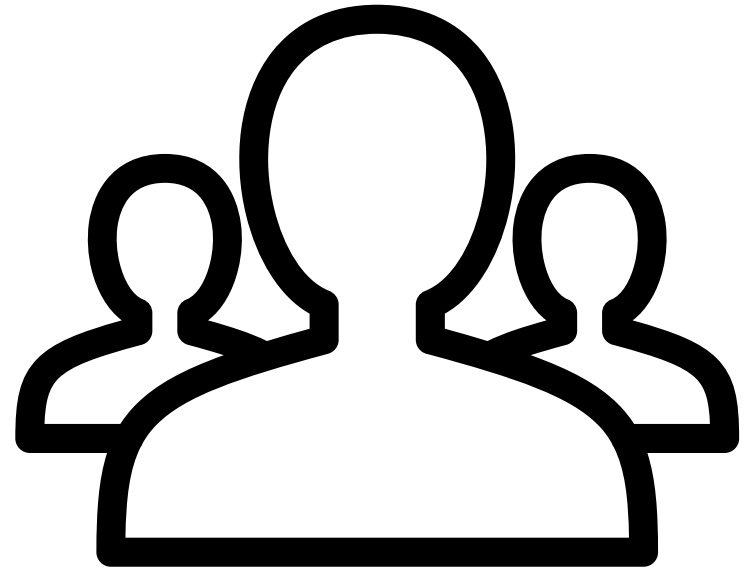
- Alerts you at a low threshold.

BUILDING AWS HOME LAB

1. CREATE AN AWS ACCOUNT.

2. SECURE THE ACCOUNT USING THE MFA AUTHENTICATION.

3. CONFIGURE THE BILLING ALARM.

4. CREATE A NON-ROOT USER.

NON-ROOT USER ACCOUNT

- Avoid using root account for

  general activities.

- Principle of least privilege.

- Reduces risk

- Resource isolation

BUILDING AWS HOME LAB

1. CREATE AN AWS ACCOUNT.

2. SECURE THE ACCOUNT USING THE MFA AUTHENTICATION.

3. CONFIGURE THE BILLING ALARM.

4. CREATE A NON-ROOT USER.

5. CREATE VPC.

VPC (VIRTUAL PRIVATE CLOUD)

- VPC is like a network in the cloud.

- It consists of:

Subnets

Internet gateways

Routing Tables

BUILDING AWS HOME LAB

1. CREATE AN AWS ACCOUNT.

2. SECURE THE ACCOUNT USING THE MFA AUTHENTICATION.

3. CONFIGURE THE BILLING ALARM.

4. CREATE A NON-ROOT USER.

5. CREATE VPC.

6. LAUNCH EC2 INSTANCE.

7. TERMINATE EC2 INSTANCE.

EC2 (AMAZON ELASTIC COMPUTE CLOUD)

- AWS "Compute " resource.

- Virtual Machine in a cloud.

- Contains many different OS.

- Launches very quickly.