Cloud Computing Deployment models use cases

Cloud

Fully utilizing cloud computing

Companies that are starting out today, or are small enough to make the leap from a VPS to a CSP.

- Startups
- SaaS offerings
- New projects and companies

Hybrid

Using both Cloud and On-Premise

Organizations that started with their own datacenter, can't fully move to cloud due to effort of migration or security compliance

- Banks
- FinTech, Investment Management
- Large Professional Service providers
- Legacy on-premise

On-Premise

Deploying resources on-premises, using virtualization and resource management tools, is sometimes called "private cloud".
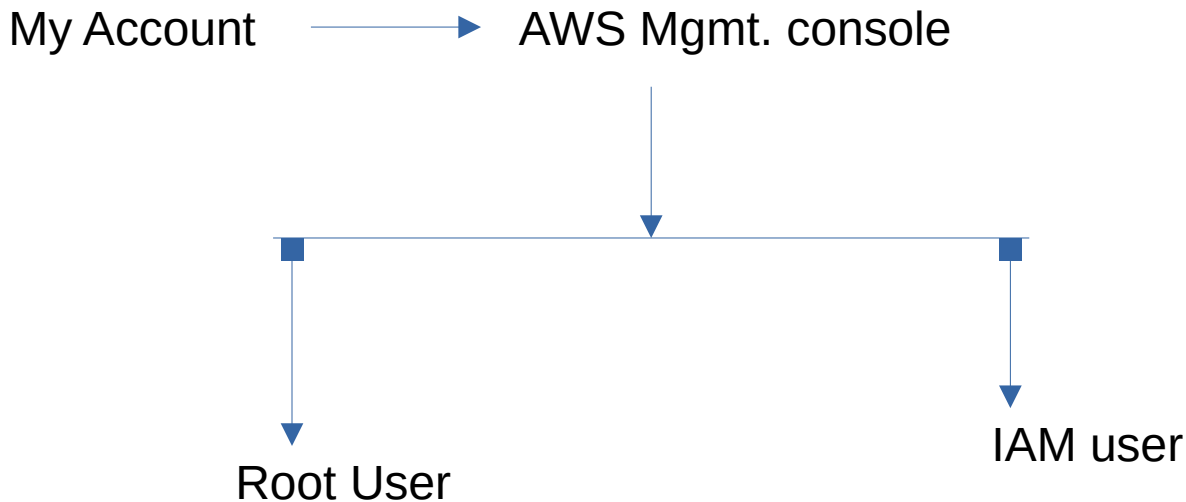

Organizations that cannot run on cloud due to strict regulatory compliance or the sheer size of their organization

- Public Sector eg. Government
- Super Sensitive Data eg. Hospitals
- Large Enterprise with heavy regulation eg. Insurance Companies

There really isn't reason to **be fully on-premise**

Create an I'm user

My Account ────────▶ AWS Mgmt. console

Root User

IAM user

You should avoid using the root user unless absolutely necessary for a task. Instead, use an IAM user with admin privileges. IAM users don't have access to the Billing and Management Console by default, even if you attach the right policies.

- Advantage of using AWS or any CSP that it uses a metered billing
- For Multi Factor Authentication(MFA) needs to sign in to root user account
- Plz remember if u already signed in to IAM user then you've to log out from it and then log back in to root user account for creating MFA.

Creating MFA

- Sign in to root user account
- Dashboard appears.
- Click on IAM
- Click on add MFA.
- Security credentials page appears. Then click on activate MFA.
- 3 options will appear like virtual MFA, U2F security key, other hardware MFA device.
- If u don't have security key go with virtual one option . In case u've key then go with U2F option.
- Scan qr code and then u got mfa codes on your phone when done with scanning.
- If u sign out and re sign in to see whether MFA works, u will see after entering id, pswd, it asks for MFA code