# AWS SAA + SysOps + Developer + DevOps Course #Day-5

We will start at 8 AM, Stay tuned

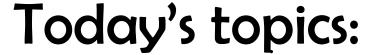






# Recap:

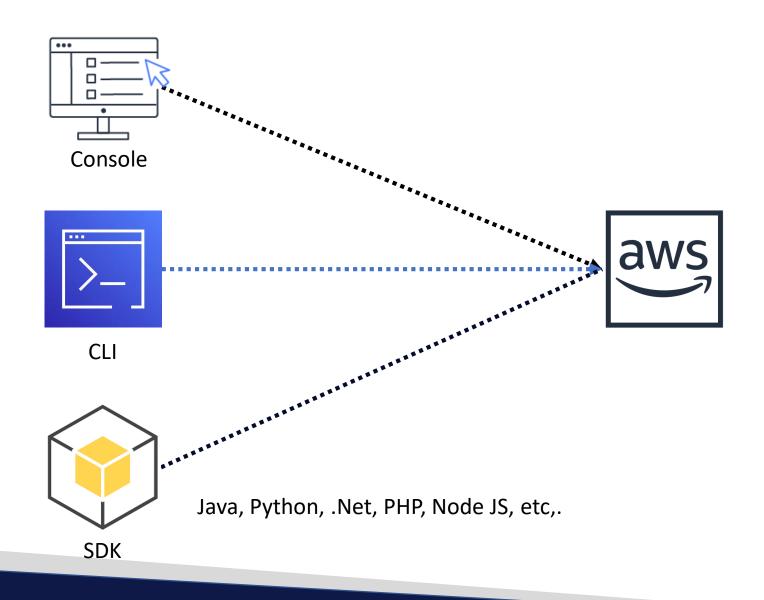
- Hands on AWS Account Best Practices
- Hands on AWS Budgets setup
- AWS Global Infrastructure
  - Regions
  - Availability Zones



aws

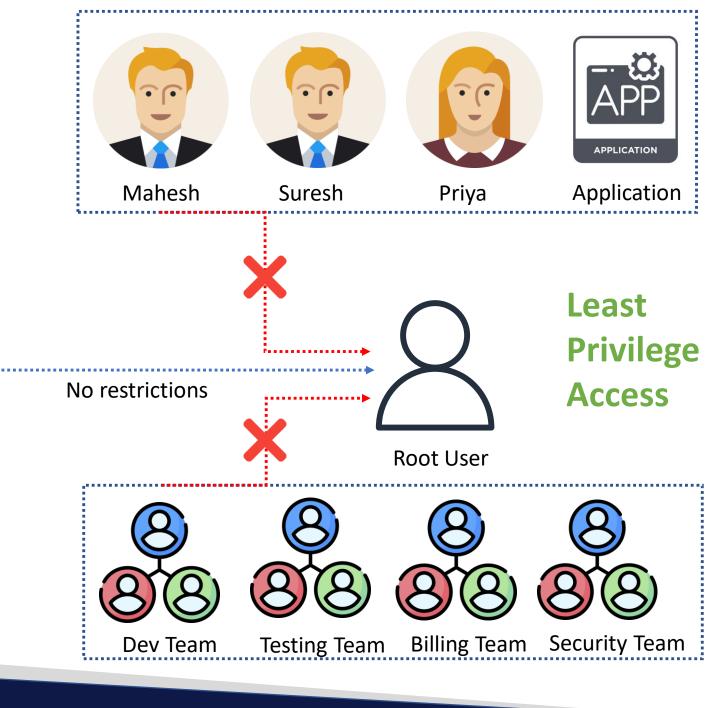
- Different ways to connect to AWS
- IAM Basics
- IAM Users
- IAM Roles
- IAM Groups
- IAM Policies
- Hands on IAM
- Access keys
- Hands on AWS CLI

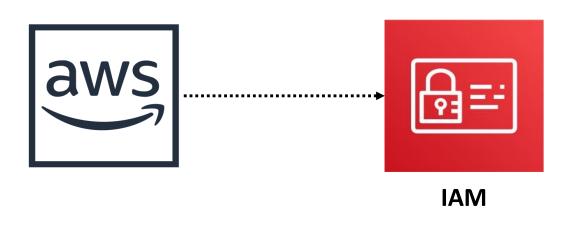
# Different ways to connect to AWS



### IAM Service - Basics



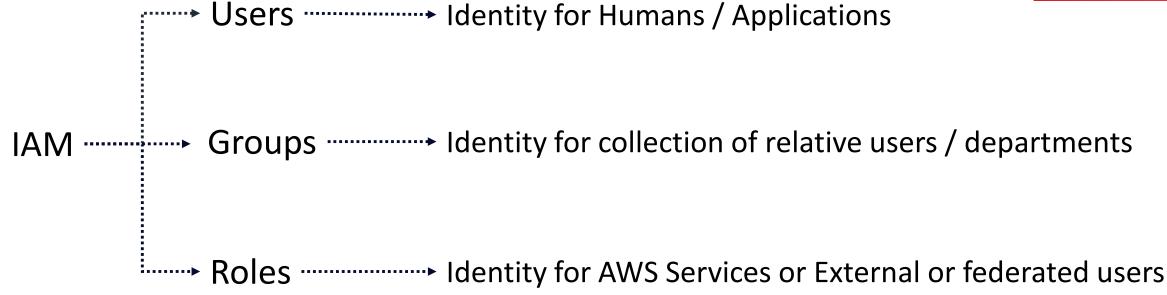




- I Identity
  - Manages the Authentication
  - User name and password (MFA)
  - Ex: Gmail, Facebook
- A Access
  - Manages the Authorization
  - Provides the permissions to use services
- M Management

### IAM Identities





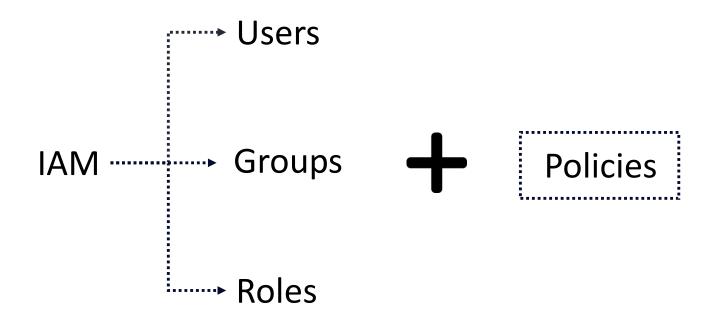




Prabhas (on Bahubali Role)

### IAM Access





- Provides permissions to identities
- Allow / Deny access to AWS services
- Deny has more priority than Allow

## IAM Key Points



- IAM is a global service
  - It is hosted in N. Virginia region
  - All endpoints reaches to N. Virginia region
- IAM is an AWS managed service
- IAM is a highly available service
- IAM is free of cost no charges
- IAM has direct / indirect integration with all other AWS services

### IAM Key Points (contd)

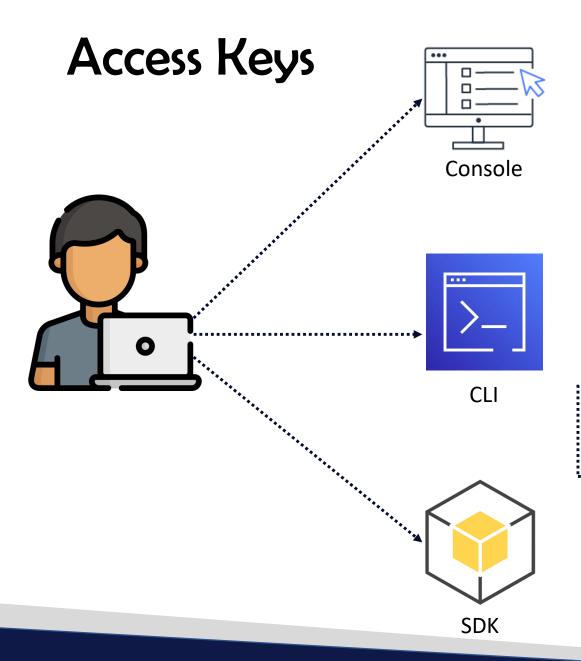


- Allow / Deny with in your account
- Identity federation Microsoft AD integration / Facebook / Google / Amazon

### IAM Demo cases



- Create admin user + attach policy
- Remove the attached policy and see the errors
- MFA setup on user
- Create admin group
- Add policy to the group
- Create 2<sup>nd</sup> user and add the group
- Check the permissions for the 2<sup>nd</sup> user





AccessKeyId: AKIAIOSFODNN7EXAMPLE

SecretAccessKey: wJalrXUtnFEMI/K7MDENG/bEXAMPLEKEY

2 → access keys

### Access Keys – Best Practices



- If you lost your secret key, you cannot reset it. You can only recreate it.
- Never share your keys
- Access keys rotation: Must be rotated
  - When rotating make the key inactive before the deletion

# Access Keys Demo cases

- Downloading CLI <u>click here</u>
- Create Access Keys for user1 and user2
- Configure on local machine for both users
- Use below command s
  - aws configure (for user 1)
  - aws configure --profile user2 (for user 2)
  - aws sts get-caller-identity
  - aws sts get-caller-identity --profile user2
  - aws s3 ls







# Thank you, will meet in tomorrow's session