Identity and Access Management (IAM)

Member: Phan Ba Van

Phung Sy Linh

Ngo Quang Vinh

Do Duc Thuong

Introduce

- AWS Identity and Access Management (IAM) enables to manage access to AWS services and resourves securely.
- Create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources.



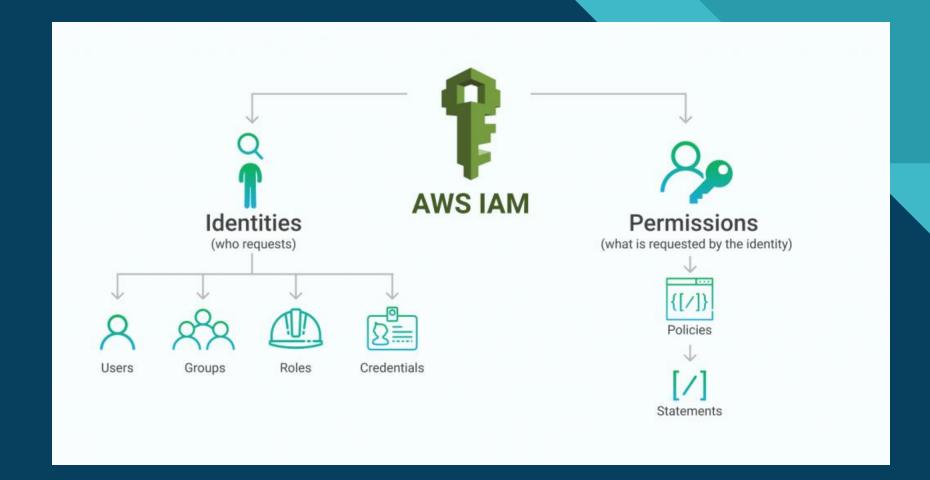


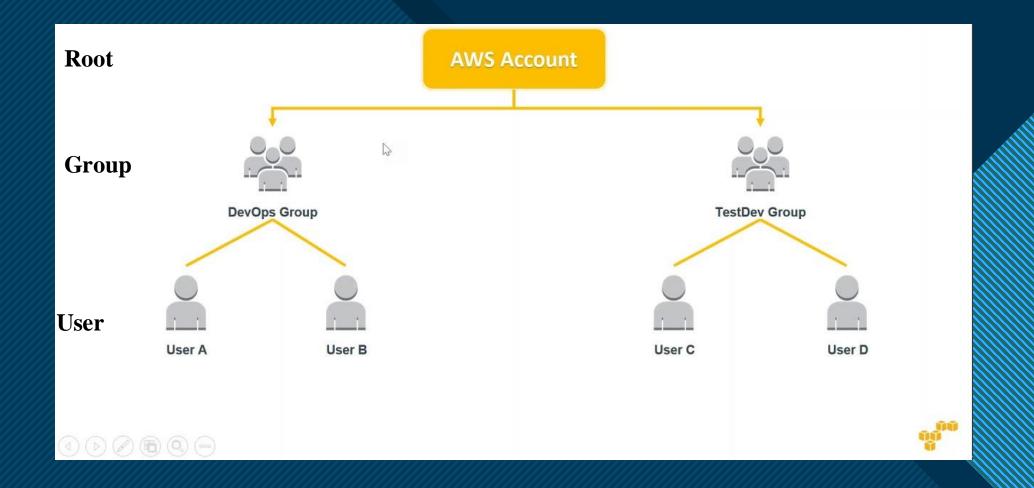
- Fine-grained access control to AWS resources
- Multi-factor authentication for highly privileged users
- Analyze access

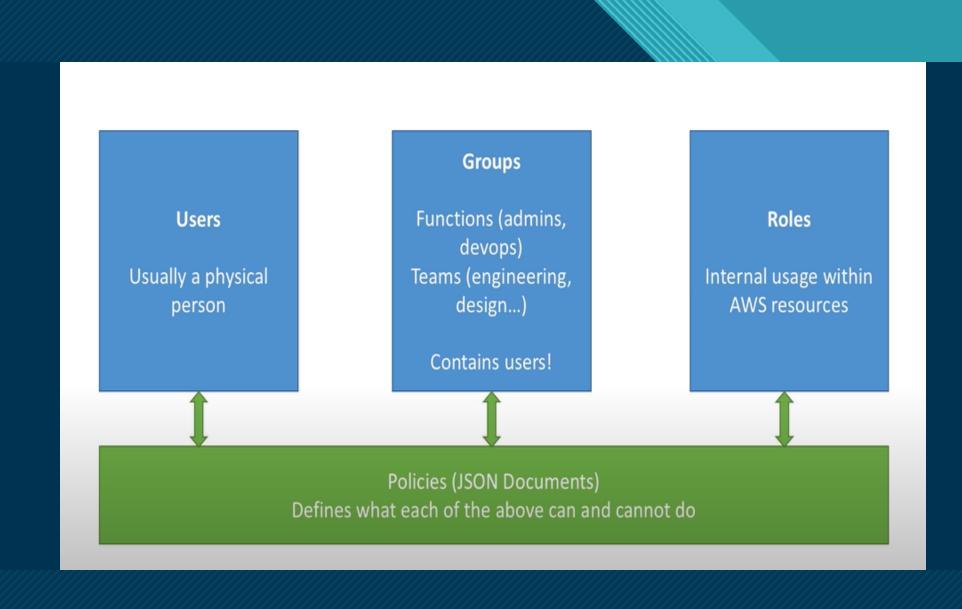
IAM allows to:

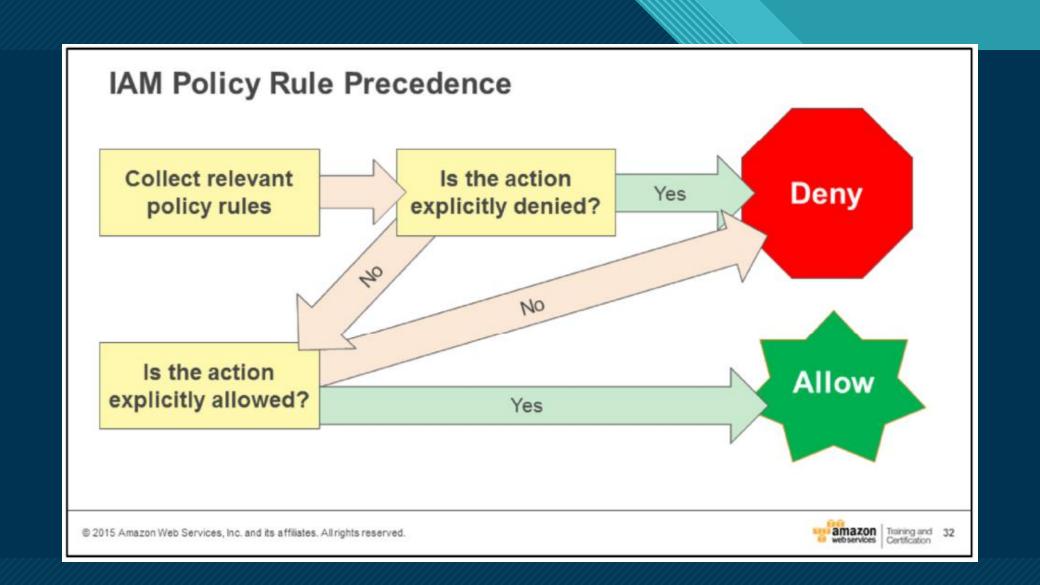
- Manage IAM users and their access
- Manage IAM roles and their permissions
- Manage federated users and their permissions

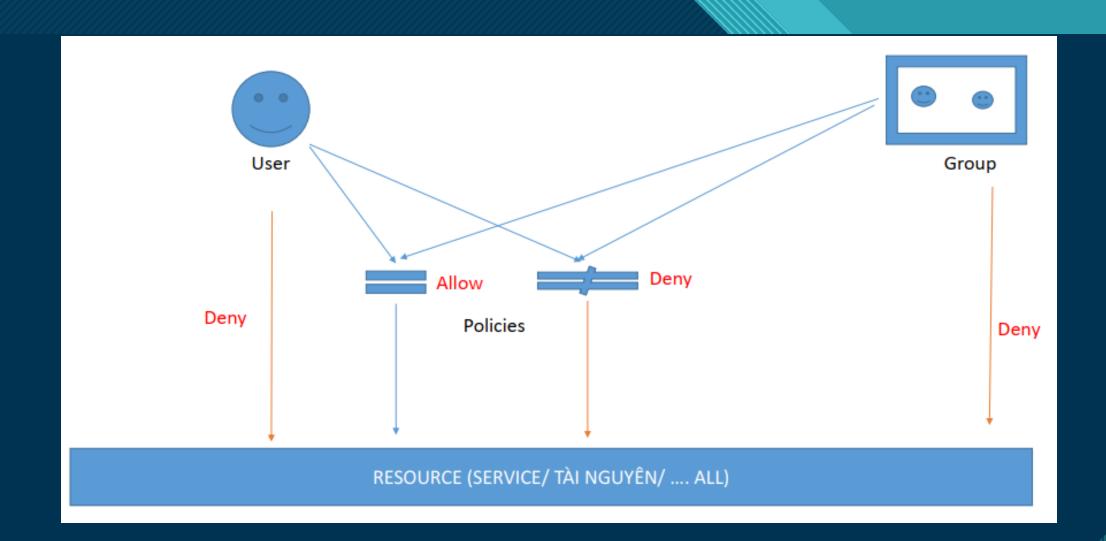












IAM Policies inheritance



IAM Policies Structure

Version: policy language version, always include "2012-10-17"

Sid: an indentifer for the statement (optional)

Id: an indentifer for the policy (optional)

Statement: one or more individual statements (required)

Resource: list of resources to which the actions applied to

```
"Version": "2012-10-17",
"Id": "S3-Account-Permissions",
"Statement": [
        "Sid": "1",
        "Effect": "Allow",
        "Principal": {
            "AWS": ["arn:aws:iam::123456789012:root"]
        "Action": [
            "s3:GetObject",
            "s3:PutObject"
        "Resource": ["arn:aws:s3:::mybucket/*"]
```

Effect: whether the statement allows or denies access (allow, deny)

Principal:

account/user/role which this policy applied to

Action: list of actions this policy allows or denies

Condition: conditions for when this policy is in effect (optional)

- Password Policy
- Multi Factor Authentication (MFA)
- IAM security tool
- IAM Guidelines

Thank You!!!