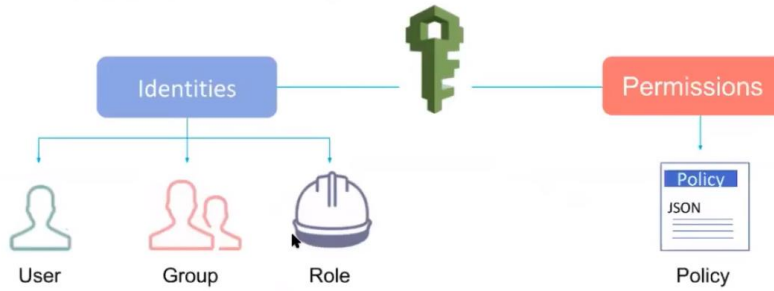


► Introduction to IAM

Categorizing IAM Components



- IAM components can be mainly categorized under two terms; **Identities** and **Permissions**.

► IAM Users

What is IAM User?

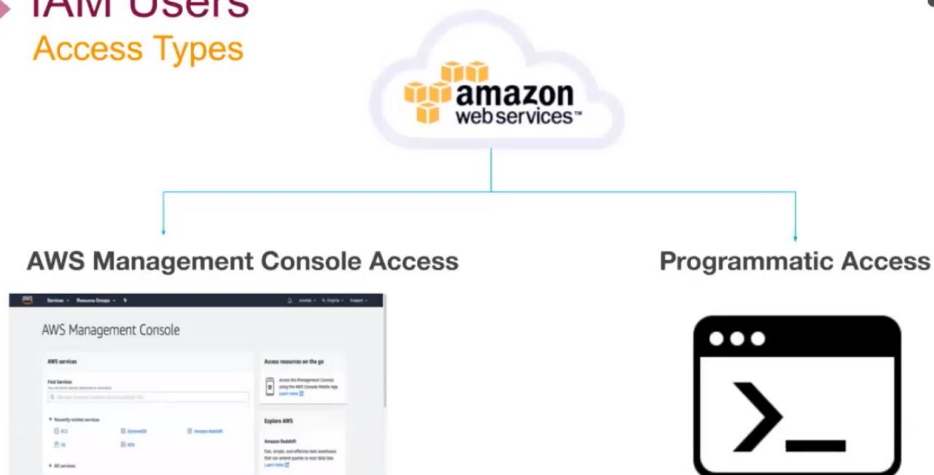


- An IAM user represents the person or service who uses AWS
- Who can be an IAM User? There are 4 types of user:



► IAM Users

Access Types



► IAM Policies

Policies - JSON Identifiers

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": "s3:*",
7       "Resource": "*"
8     }
9   ]
10 }
```

CLARUSWAY
WAY TO REINVENT YOURSELF

Version: Specifies the version of the policy document.

Statement: The basic part of a policy where you define permissions

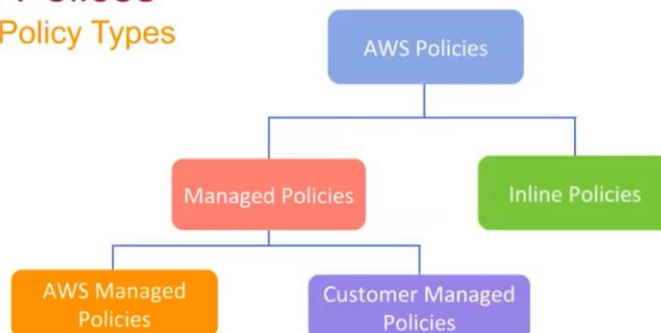
Effect: It determines what the statement actually does. Can contain only the **Allow** or **Deny** values.

Actions: Determines which actions the identity can perform.

Resource: Explains in which AWS **resources** the statement will perform the operations.

► IAM Policies

IAM Policy Types



► IAM Policies

Policy

Managed Policies: IAM managed policies are a standalone policies that can be attached to **multiple entities** (users, groups of users, or roles).

- **AWS Managed Policies:** AWS **Template Policies**.
- **Job Function Policies** : Specified policies for an expected job function. A kind of **AWS Managed Policy**
- **Customer Managed Policies:** Policies created **by a customer** via Visual Editor or JSON.

Inline Policy: These are individually appointed and embedded policies. They are created **by a customer**

► IAM Groups

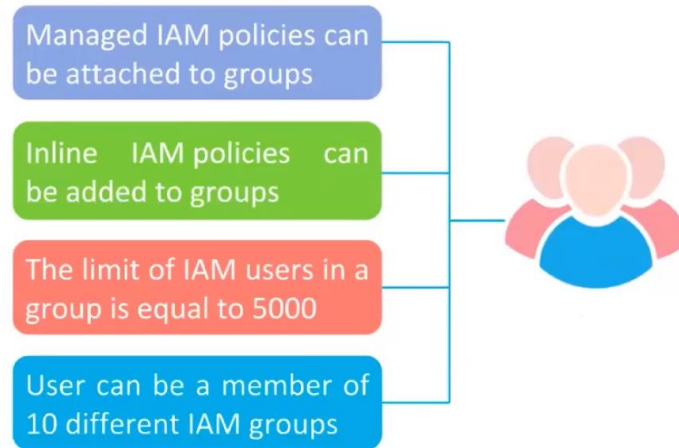
What is Group in AWS?



- Groups are collections of IAM users that let you specify permissions for multiple users.
- It is a way for **attaching policies** to multiple users.
- A **group** can contain **many users**, but **not the other groups**.
- A **user** can belong to **multiple groups**.

► IAM Groups

IAM Group Features



CLARUSWAY

► IAM Roles

Who can assume an IAM Role?



► IAM Groups

Administrator Full access > Power User > other

↓

Full

↓

(full - (Billing+IAM))

power user= Full - (billing+IAM)