

IAM:

What Is IAM?

IAM allows you to manage users and their level of access to the **AWS** console.

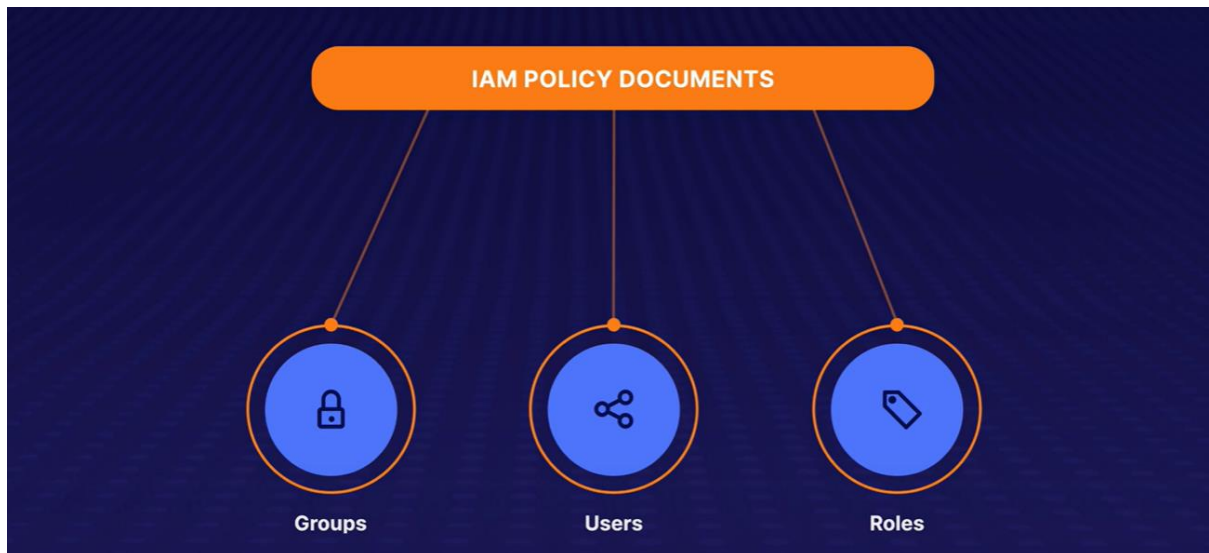
- ✓ Create users and grant permissions to those users.
- ✓ Create groups and roles.
- ✓ Control access to AWS resources.



The **root account** is the email address you used to sign up for AWS. The root account has **full administrative access** to AWS. For this reason, it is important to secure this account.

4 Steps to Secure Your AWS Root Account

- ✓ Enable multi-factor authentication on the root account.
- ✓ Create an admin group for your administrators, and assign the appropriate permissions to this group.
- ✓ Create user accounts for your administrators.
- ✓ Add your users to the admin group.



Assign Permissions Using IAM Policy Documents Consisting of JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "*",
      "Resource": "*"
    }
  ]
}
```



Next lesson
Permanent IAM Cred

Remember the following for the exam:

- ✓ **IAM is Universal:** It does not apply to regions at this time.
- ✓ **The Root Account:** This is the account created when you first set up your AWS account and it has complete admin access. Secure it as soon as possible and **do not** use it to log in day to day.
- ✓ **New Users:** No permissions when first created.

- ✓ **Access key ID and secret access keys are not the same as usernames and passwords.** You cannot use the access key ID and secret access key to log in to the console. However, you would use them to access AWS via the APIs and Command Line.
- ✓ **You only get to view these once.** If you lose them, you have to regenerate them. So, save them in a secure location.
- ✓ **Always set up password rotations.** You can create and customize your own password rotation policies.

- ✓ **IAM Federation:** You can combine your existing user account with AWS. For example, when you log on to your PC (usually using Microsoft Active Directory), you can use the same credentials to log in to AWS if you set up federation.
- ✓ **Identity Federation:** Uses the SAML standard, which is Active Directory.