

IAM Users & Groups:

- Root account created by default, shouldn't be used to shared
 - Users are people within your organization, can be grouped
 - Groups only contain users, not other groups
 - Users don't belong to a group, and user can belong to multiple groups
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- Sign up for an AWS account
 - Using search bar, navigate to the "**IAM**" console.
 - On the left-hand side, go to **users**.
- *Note that the region section indicated that is a global service
- Click on **Create User**
 - Enter is Username, set a password for the user, add/create permission group associated with the user
 - *optional* add tags -AWS can be added to organize resources
 - Review & create.
 - Click on User List to navigate back to the IAM page: under the **Access Management** tab: you may find: **User Groups** (which you created), **Users & Roles**
 - To log into the console with the user created: Go to **Dashboard**:
 - o on the right hand under **AWS Account**: add an Account **Alias** to simplify the Root-user login URL (has to be unique)
- Log into the console using the user created: Open a different browser than your current one (to avoid being logged out of your Root Account) –
- copy your root users **Account ID/ URL** & paste into the new browser on the log in page: it will prompt = Root User/ IAM User: select IAM user & enter your new users: user name & password
- successfully logged into Root user & IAM User simultaneously

IAM MFA:

MFA = password you know + security device you own

Benefits: if a password is stolen/hacked, the account is not compromised

Set up MFA on your AWS ACCOUNT in your **Root** Account

- Start by defining a password policy: Using the left-hand tab, go to: **Account Settings**
 - **Edit** Password Policy & click **Custom**. Edit the policy & hit **Save Changes**
 - In the top right-hand corner- hit your account drop-down arrow & go to **Security Credentials**
 - Click **Assign MFA**, name the Device, & select the type of device: **Authenticator App**
- *You may find compatible application using the link below on the page

-Download app & scan the QR code to begin the setup: complete instructions on the phone, & **Add MFA** successfully added an MFA to account.

AWS Command-line Interface Lab

-Begin by installing CLI on your hardware: <https://awscli.amazonaws.com/AWSCLIV2-2.0.30.msi>

-complete installation steps & open up CLI from your windows browser

-Once you have the CLI up & running: enter the following prompt to confirm installation

```
"" aws --version""
```

-Back to the AWS console: go to IAM > users > select your user > security credentials:

-Create Access Key > select: Command-Line-Interface > next: **Create Access Key**

*Note: only time you will have access to these credentials:

-Back to CLI>

```
""aws configure""
```

*Enter your Access Key ID & then Secret Access Key >enter region name

```
""eu-east-1"" & hit enter.
```

-to prompt a list of your aws users:

```
""aws iam list-users""
```

-to create a new-user

```
"" aws iam create-user --username (enter username)
```

-Delete Access key for user

```
"" aws iam delete-access-key --username (username) --access-key-id (Access Key)
```

Enter various prompts to familiarize yourself with Command-Line Interface Lab