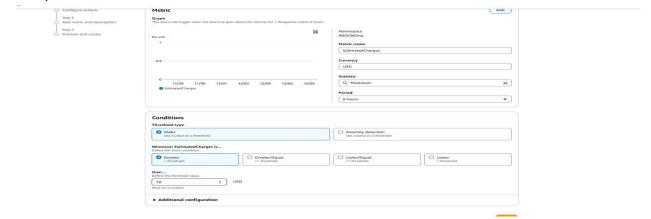
Objective: Create AWS account, set billing alarm, create 2 IAM groups (admin-developer), admin group has admin permissions, developer group only access to ec2, create admin-1 user with console access only and enable MFA & admin-2-prog user with cli access only and list all users and groups using commands, create dev-user with programmatic and console access and try to access EC2 and S3 from dev user.

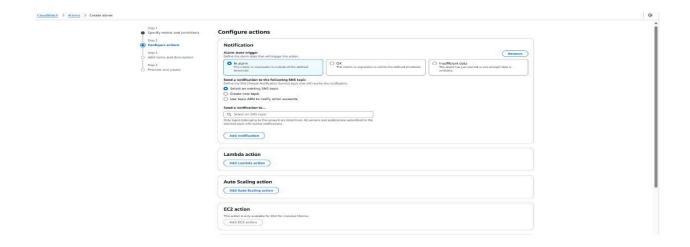
Enable Billing Alerts

- 1. Navigate to **Billing** in the AWS Console.
- 2. Click on Preferences.
- 3. Enable **Receive Billing Alerts** and save changes.

Create a Billing Alarm

- 1. Go to the CloudWatch service in the AWS Console.
- 2. Navigate to Alarms > Create Alarm.
- Select Billing > Total Estimated Charge as the metric.
- 4. Set the threshold (e.g., USD 10).
- 5. Configure notifications via SNS (e.g., email alerts).
- 6. Complete the alarm creation.





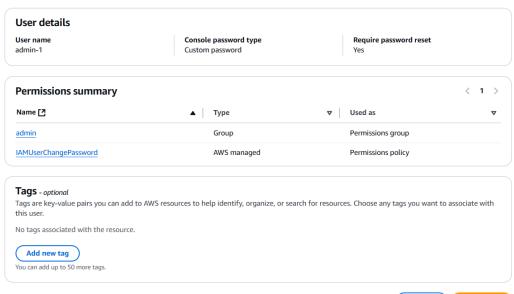
Create user: admin-1



Attach user to group admin-1 to admin

Review and create

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.



Previous

Create user

Change MFA:unenable to enable:

Select MFA device Info

MFA device name

Device name

This name will be used within the identifying ARN for this device.

google

Maximum 64 characters. Use alphanumeric and '+ = , . @ - _' characters.

MFA device

Device options

In addition to username and password, you will use this device to authenticate into your account.



Passkey or security key

Authenticate using your fingerprint, face, or screen lock. Create a passkey on this device or use another device, like a FIDO2 security key.





Authenticator app

Authenticate using a code generated by an appinstalled on your mobile device or computer.

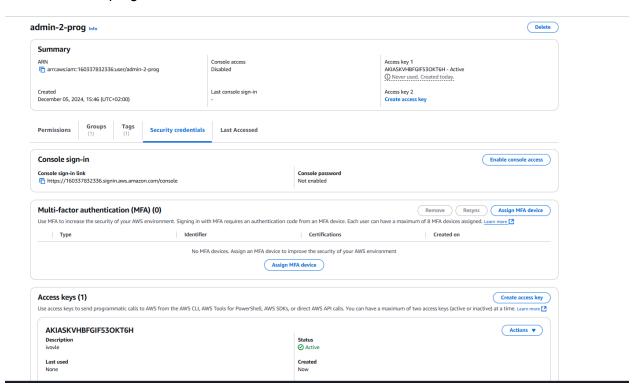




Hardware TOTP token

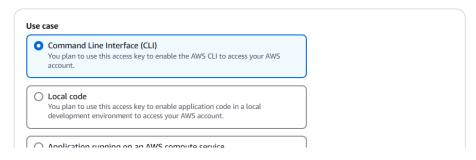
Authenticate using a code generated by

Create admin-2-prog



Access key best practices & alternatives Info

Avoid using long-term credentials like access keys to improve your security. Consider the following use cases and alternatives.



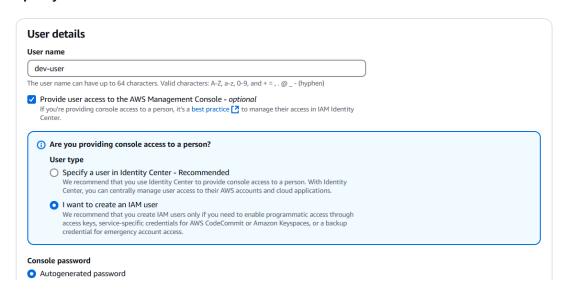
List username & group by AWS CLI

```
:\Users\admin>aws configure
WS Access Key ID [None]: AKIASKVHBFGIF530KT6H
WS Secret Access Key [None]: bnDKGf0nmMawaZPFuHh0eVX3lz99rWE/LBxxYVRf
efault region name [None]:
efault output format [None]:
:\Users\admin>aws iam list-users

"Users": [
```

Create dev-user

Specify user details



Create Accesskey:

