Summary

This Cloud Lab covers best practices for AWS multi-account (personal) creation & administration.

Topics include:

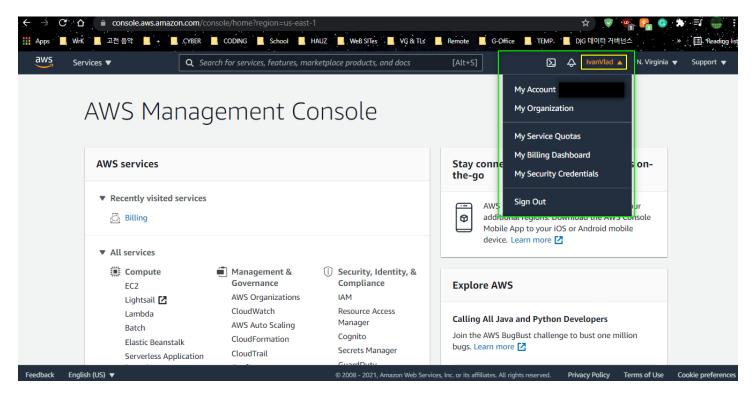
- Securing an AWS account
- Billing alerts
- General account vs Prod account
- Access Keys
- Setup AWS CLI v2 tools

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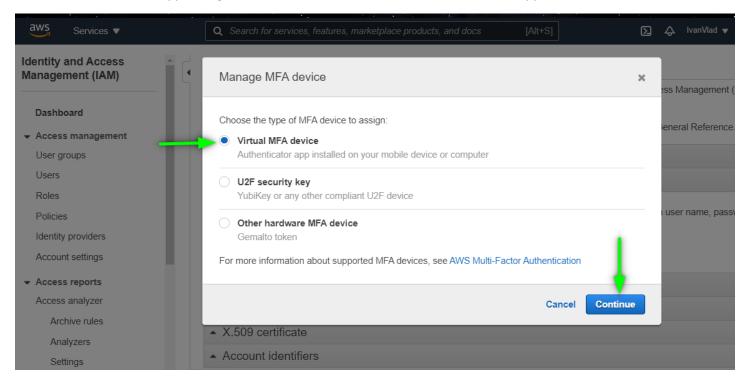
1. Account Creation

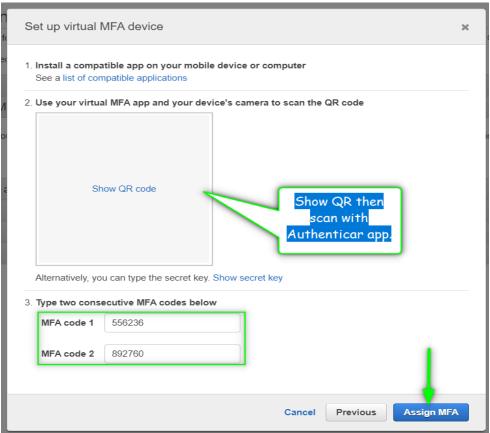
Create AWS free tier account – initial account is the root.



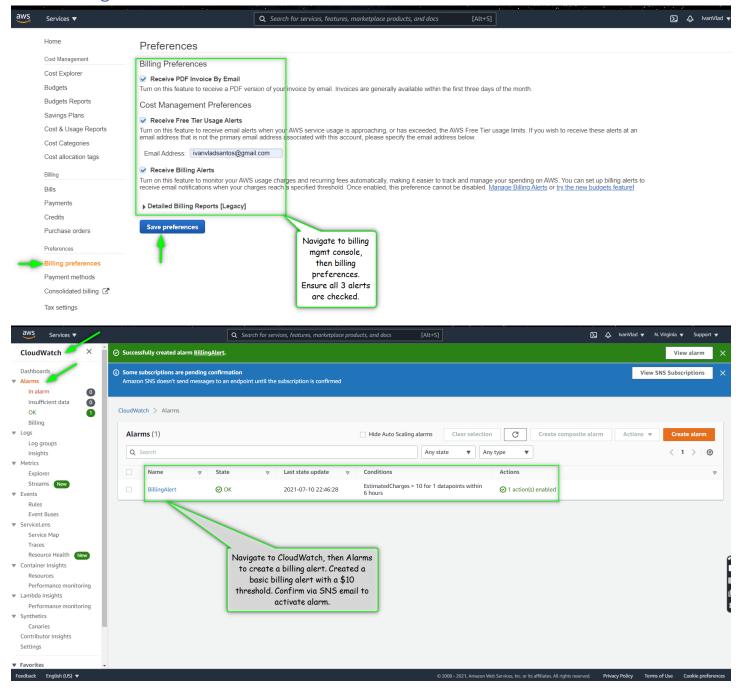
2. Secure the Account

*Need an authenticator app. Navigate to IAM MFA, we will enable via authenticator app.





3. Billing



Q Search for services, features, marketplace products, and docs

[Alt+S]

↑ IvanVlad ▼

▼IAM User and Role Access to Billing Information

Use the **Activate IAM Access** setting to allow IAM users and roles access to pages of the Billing and Cost Management console. This setting alone doesn't grant IAM users and roles the necessary permissions for these console pages. In addition to activating IAM access, you must also attach the required IAM policies to those users or roles. For more information, see Granting access to your billing information and tools.

If this setting is deactivated, then IAM users and roles in this account can't access the Billing and Cost Management console pages, even if they have administrator access or the required IAM policies.

The Activate IAM Access setting does not control access to:

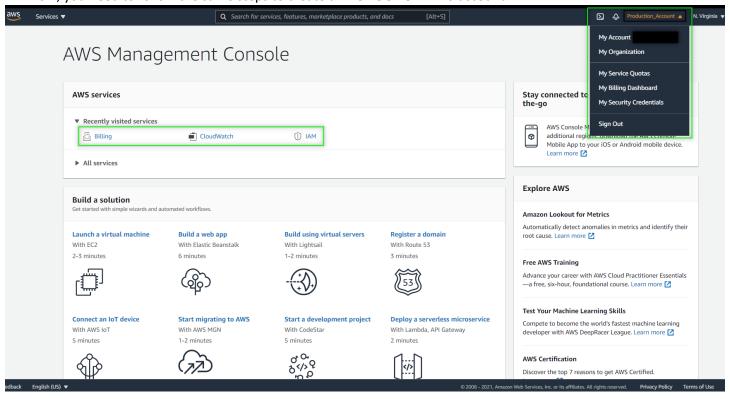
- The console pages for AWS Cost Anomaly Detection, Savings Plans overview, Savings Plans inventory, Purchase Savings Plans, and Savings Plan cart
- · The Cost Management view in the AWS Console Mobile Application



4. Creating Prod Account

Similar to the 1st step with root acc – use gmail trick:

Now, you need to follow the same steps to create a **PRODUCTION** AWS account.



5. IAM – General Account

• Customize sign-in URL for IAM users in account



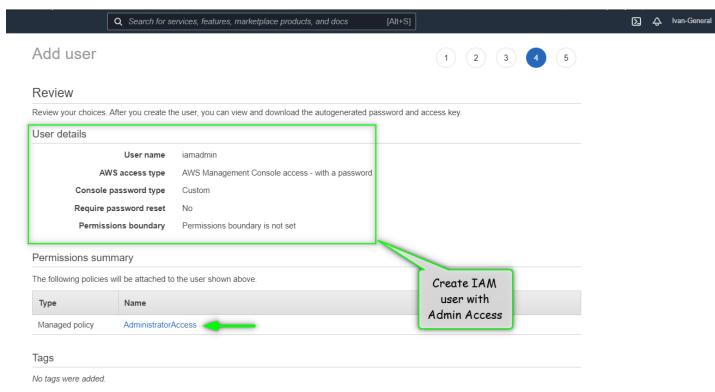
Alias created. IAM users in this account can now sign-in with the new URL as well.

he ×

IAM dashboard

Sign-in URL for IAM users in this account

https://ivan-general.signin.aws.amazon.com/console 🐉 | Edit | Delete alias



Login as IAM admin & setup MFA like in step 2:



Repeat process for Prod account.

Now we have 4 accounts:

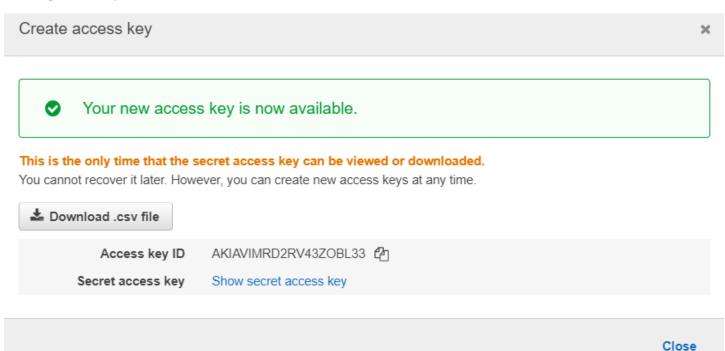
- Ivan-general (root)
- Ivan-prod (IAM admin)
- lam-general (root)

Iam-prod (IAM admin)

This enabled to utilize the IAM admin accounts and not have to login as ROOT, unless needed, which is best practice.

6. Access Key Creation & AWS CLI v2 tools setup

Creating access keys for IAM accounts.



Download & store CSV file securely, it contains Access KEY information.

Install AWS CLI and confirm:

```
Microsoft Windows [Version 10.0.19042.1083]
(c) Microsoft Corporation. All rights reserved.

C:\Users\IvanVlad>aws

usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]

To see help text, you can run:

aws help
aws <command> help
aws <command> <subcommand> help
aws <command> <subcommand> help
aws <command> <subcommand> arguments are required: command

C:\Users\IvanVlad>aws --version
aws-cli/2.2.18 Python/3.8.8 Windows/10 exe/AMD64 prompt/off
```

Configure named profile for both IAM accounts:

```
C:\Users\IvanVlad>aws configure --profile iamadmin-general
AWS Access Key ID [None]: AKI/
AWS Secret Access Key [None]:
Default region name [None]: us-east-1
Default output format [None]:

C:\Users\IvanVlad>aws configure --profile iamadmin-production
AWS Access Key ID [None]: AKI/
AWS Secret Access Key [None]:
Default region name [None]: us-east-1
Default output format [None]:
```

CLI is now configured with both IAM admin accounts (Gen + Prod) – store KEYS securely, or delete csv's altogether since it is already configured in the CLI.