**Create AWS IAM Identities**

* Account alias

Graphical user interface, text, application

Description automatically generated

**Create permission**Graphical user interface, text

Description automatically generated

* **Create group and attach permission**

Graphical user interface, text, application

Description automatically generated

Add user and attach user to the group

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

Dev-user cannot change prod-instance’s state because it does not have ‘dev’ tag.

Graphical user interface, website

Description automatically generated

Dev-user does can stop or delete instances with ‘dev’ tags. That’s why simulation fails.

Graphical user interface, text, application, Word

Description automatically generated

After adding ‘dev’ tag stop instance simulation success.

Graphical user interface, text, application, email

Description automatically generated

Assign IAM Role for EC2 Instance and Test the access

Policy

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface, application, Word

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

**Use the New Visual Editor to Create and Modify Your AWS IAM Policies**

Create policy to read documents in ‘pinqi-bucket’ and starts with ‘’PM\_Candidate’’

Graphical user interface, text, application, email

Description automatically generated

AWS KMS

Graphical user interface, text, website

Description automatically generated

Graphical user interface, application

Description automatically generated

Generate data key

* CiphertextBlob - The data key, encrypted with the workshop-kms-cmk CMK.
* Plaintext - The data key, unencrypted.

Graphical user interface, text, website

Description automatically generated

{

"CiphertextBlob": "AQIDAHgSi+OpN1zFRs7IhUcpnmCEnU0sHKdPiU1Znico4BE58wEZcXwRZHY0tNGxIQIxpjT+AAAAfjB8BgkqhkiG9w0BBwagbzBtAgEAMGgGCSqGSIb3DQEHATAeBglghkgBZQMEAS4wEQQMRpEeObyas2FsscY6AgEQgDsh9wpxm35q9C0BtyuwLu5ccaA1V/Ik5k5/Hkcu6w7gqsI6saF6oRAYhMjba9CNSr6/OSaC4uTUj/5KLQ==",

"Plaintext": "9Mu9Y3f5fP4Z5Mv7GibLxqGtXl4MhU+P/8uNsR8KGoU=",

"KeyId": "arn:aws:kms:us-east-1:216680942427:key/87d9be15-3ea3-4789-ac6c-fc5d25296c75"

}

In the real world, we will often have the encrypted version and need to decrypt it first.

Text

Description automatically generated

After this we can use this key to encrypt or decrypt texts. From now we don’t need kms, we make things locally with data key.

Making some cleaning

Text

Description automatically generated