# **Dev-ops Github/AWS Integration**

# IAM Identity Setup

* Browse the IAM role services.
* Navigate to Identity Provider in the left pane
* Click on Add Provider
* Select Provider Type🡪 OpenID Connect🡪provider\_url🡪

https://token.actions.githubusercontent.com

* Select Audience🡪sts.amazonaws.com

# Trust Policy

Below trust policy needs to be added while creation of role in Trust relationship to authenticate with Github.

We have created a role arn:aws:iam::553634521538:role/MyGitHubAssumeRole

Role has below policies to perform resource creation with github actions

* CloudFormation Full Access
* Will be adding in the future if any additional policies needs to be attached

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Principal": {

"Federated": "arn:aws:iam::<account no>:oidc-provider/token.actions.githubusercontent.com"

},

"Action": "sts:AssumeRoleWithWebIdentity",

"Condition": {

"StringLike": {

"token.actions.githubusercontent.com:sub": "repo:<repo\_name>:\*",

"token.actions.githubusercontent.com:aud": "sts.amazonaws.com"

}

}

}

]

}

# Secret setup on Github

# Add the role into the github secrets and use the below actions to configure the credentials and validate the identity.

Refer authenticate.yml file in the repository to check the github actions which is used for authentication between Github and AWS.