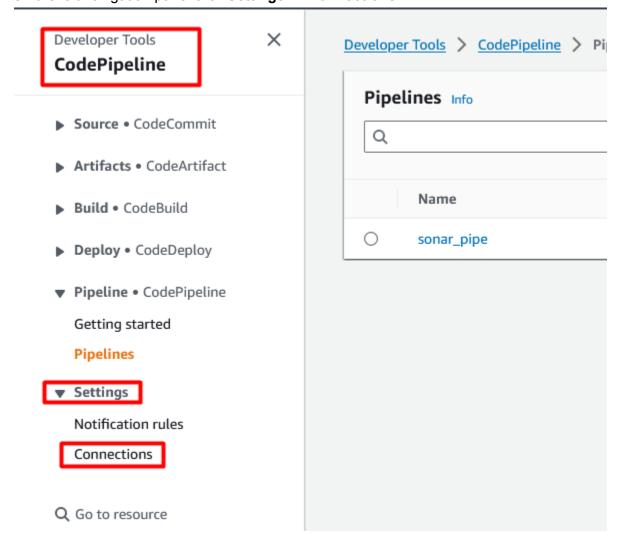
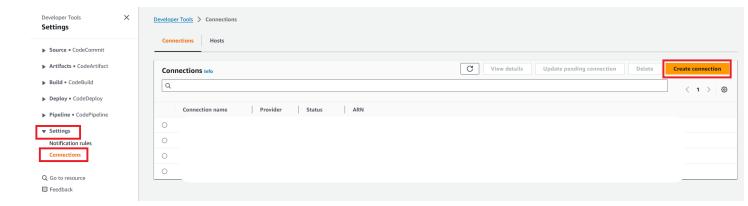
## 1. Create Code Star connection in AWS

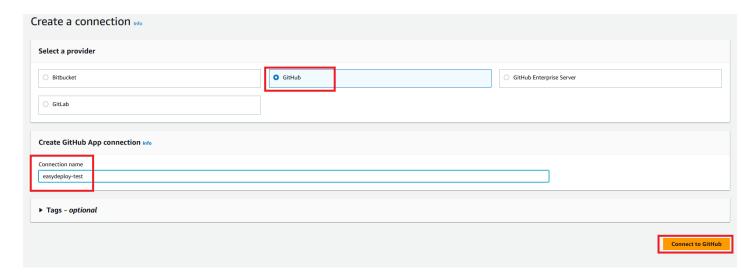
Open your AWS console **All services**→ **CodePipeline** page. On the left navigation panel click **Settings** → **Connections** 



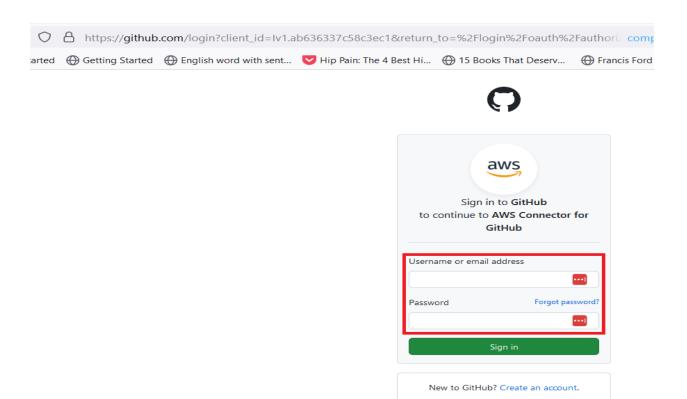
Now Click on Create Connection



- Select a provider→ Github(as your source code is in github repo) for provider
- Connection name → easydeploy-test (any name of your choice),

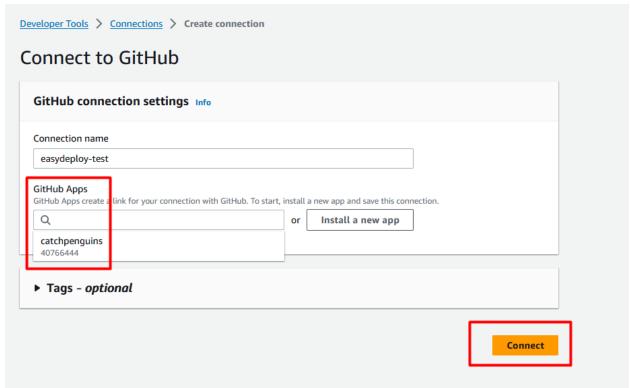


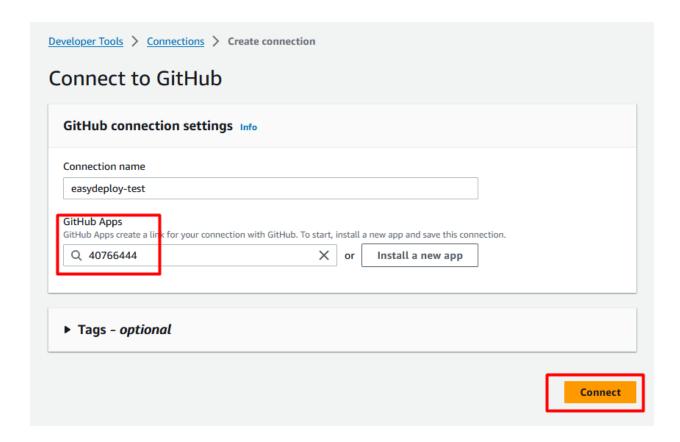
then click **Connect to Github** (it will open the Credentials tabs in your browser kindly authenticate it)



Once the authentication is finished, it will directly show the below page in AWS account in this page

Click on **GitHub Apps**—and select the connection from the Drop down(after selecting it will show the random number) and click **Connect**.





Now you can see the Connection status is in the **Available** state.

Copy the ARN marked in the screenshot below and note it somewhere else. This Connection ARN needs to be used in the CodePipeline terraform script

Edit

Connection tags info

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to help manage and secure your resources or to help track costs.

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Arm

Arm

armaws:codestar-connections:useast-connections:useast-connections:useast-label.

Edit

No results

There are no results to display.

Add tag

# Procedure to Execute Terraform Script

### Step 1 Install terraform

Use the below link and Choose your appropriate OS and install the terraform

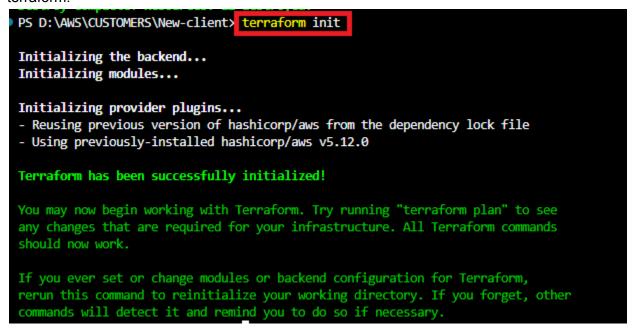
https://developer.hashicorp.com/terraform/tutorials/aws-get-started/install-cli

#### Step 2 Copy the terraform script Zip file

Unzip the terraform script Zip file(you will find many files with .tf extension) and then enter into the folder and execute the below command

Terraform init

This is a one-time run command you don't need to execute this command each time you run terraform.



#### Then run the below command

Terraform plan

The above command will give the resources which its going to provision in order for this to work you need it will prompt to input the below details like in the below screenshot. You have to enter the details every time you run the command.

These are the details you have to provide while executing the terraform script.

- Access\_key AWS Access Key ID of IAM User
- 2. Secret key AWS Secret Access Key ID of IAM User
- 3. **App\_name** Common name for this Infrastructure services
- 4. **Branch\_name** Name of the source code branch
- 5. Codestar connection arn Code Star connection ARN
- 6. **Region** Region for AWS
- 7. **Repository\_id** ID of the GitHub repo (username/repository)

```
PS D:\AWS\CUSTOMERS\isebarn-terraform terraform plan
var.access_key
  Enter the AWS Access Key ID
  Enter a value: AKIAVUKG4IWTF2M0IENS
var.app_name
  Name for ecs service, task, target-group, Load balancer
  Enter a value: easydeploy
var.branch_name
 Name of the source code branch name
  Enter a value: master
var.codestar connection arn
  ARN of the code star connection
  Enter a value: arn:aws:codestar-connections:us-east-1:387232581030:connection/cdabfcbe-3f2e-4f0b-8f5e-d05fe179ad57
var.region
  Enter the region for your infrastructure
  Enter a value: us-east-1
var.repository_id
  Repository ID of Github
  Enter a value: isebarn/test_nuxt
var.secret_key
  Enter the AWS Secret Access Key
  Enter a value: fw6WLF1Ng54s6nX59bD9egz9/FWnRK2L7I3FaV8+
```

Once the plan command runs, it will show you the number of resources it is going to provision and also it will show if there is any error in the script

```
# module.vpc.aws_vpc.this[0] will be created
  + resource "aws_vpc" "this" {
                                             = (known after apply)
     + arn
      + assign_generated_ipv6_cidr_block
                                             = false
     + cidr block
                                             = "10.10.0.0/16"
      + default network acl id
                                             = (known after apply)
      + default_route_table_id
                                             = (known after apply)
     + default_security_group_id
                                             = (known after apply)
     + dhcp options id
                                             = (known after apply)
      + enable dns hostnames
                                             = true
      + enable_dns_support
      + enable network address usage metrics = false
     + id
                                             = (known after apply)
      + instance tenancy
                                             = "default"
      + ipv6 association id
                                             = (known after apply)
      + ipv6 cidr block
                                             = (known after apply)
      + ipv6 cidr block network border group = (known after apply)
      + main route table id
                                             = (known after apply)
                                             = (known after apply)
      + owner id
      + tags
          + "Env" = "production"
          + "Name" = "easydeploy"
      + tags_all
                                             = {
         + "Env" = "production"
          + "Name" = "easydeploy"
Plan: 42 to add, 0 to change, 0 to destroy.
Changes to Outputs:
  + dns_name = (known after apply)
```

Now finally in order to provision the resources, run the following command to execute the provision of the required resources

```
terraform apply
```

Once you run the above command input all the parameter details that prompt.

```
O PS D:\AWS\CUSTOMERS\New-client> terraform apply var.access_key
Enter the AWS Access Key ID
Enter a value:
```

Confirm the creation by entering **yes** to create resources.

It starts to create the resources on your AWS account.

```
module.pipeline.aws_iam_role.build_role[0]: Creating...
module.pipeline.aws_iam_role.pipeline_role: Creating...
module.security-group-lb.aws_security_group.this[0]: Creating...
module.security-group-ecs.aws_security_group.this[0]: Creating...
module.load-balancing.aws_lb_target_group.this[0]: Creating...
module.pipeline.aws_s3_bucket.this[0]: Creating...
module.pipeline.aws_iam_role.pipeline_role: Creation complete after 2s [id=easydeploy-pipeline-role]
```

The completion of the resource creation would take 5 minutes.

Once the Provision is completed it shows **Apply complete!** like the below picture.

You can see an output which is the endpoint of the Load balancer.

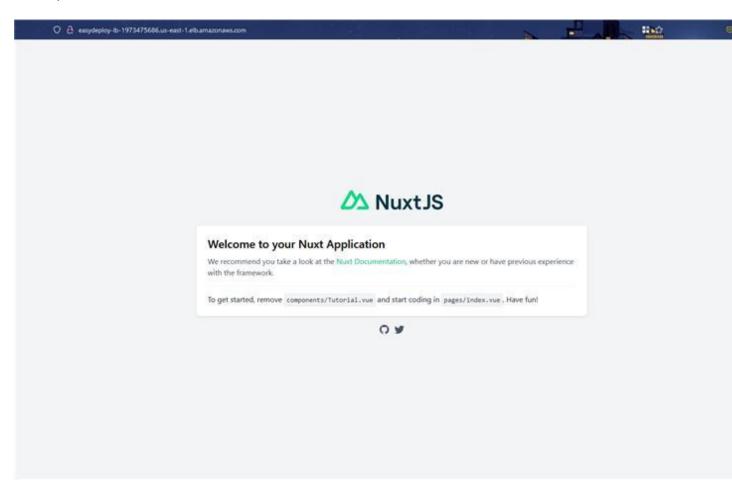
```
module.pipeline.aws_codeoulid_project.this[0]: Creating... [10s elapsed]
module.ecs.aws_ecs_cluster.this[0]: Still creating... [10s elapsed]
module.ecs.aws_ecs_cluster.this[0]: Creation complete after 13s [id=arn:aws:ecs:us-east-1:387232581030:cluster/easydeploy]
module.ecs.aws_ecs_service.this[0]: Creating...
module.ecs.aws_ecs_service.this[0]: Creating...
module.ecs.aws_appautoscaling_target.this[0]: Creating...
module.pipeline.aws_codepipeline.this_2[0]: Creating...
module.ecs.aws_appautoscaling_target.this[0]: Creating...
module.ecs.aws_appautoscaling_target.this[0]: Creating...
module.ecs.aws_appautoscaling_target.this[0]: Creating...
module.ecs.aws_appautoscaling_target.this[0]: Creating...
module.pipeline.aws_codepipeline.this_2[0]: Creating...
module.pipeline.aws_codepipeline.this_2[0]: Creation complete after 2s [id=easydeploy/easydeploy/easydeploy]
module.ecs.aws_appautoscaling_policy.this[0]: Creation complete after 1s [id=easydeploy]
module.ecs.aws_appautoscaling_policy.this[0]: Creation complete after 1s [id=easydeploy-CpuUtilization]

Apply_complete! Resources: 42 added, 0 changed, 0 destroyed.

Outputs:

dns_name = "easydeploy-LB-1973475686.us-east-1.elb.amazonaws.com"
```

Once the Apply is completed wait **10 more minutes** to server comes up After 10 minutes, you can access your application from the browser using the **dns\_name** from the outputs.



## NOTE:

Once the terraform apply is completed you can see a new file created (**terraform.tfstate**). This file is important for future reference or any more changes so do not delete it.