**Task Description:**

Launch Linux EC2 instances in two regions using a single Terraform file.

Step 1: Launch the EC2 instances and install the Terraform.

**sudo apt update && sudo apt install -y wget unzip**

**wget https://releases.hashicorp.com/terraform/1.11.2/terraform\_1.11.2\_linux\_amd64.zip**

**unzip terraform\_1.11.2\_linux\_amd64.zip**

**sudo mv terraform /usr/local/bin/**

**terraform --version # Verify installation**

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**Step 2: Configure AWS CLI**

Terraform needs AWS credentials to create resources.

1. Install AWS CLI (if not installed):

**sudo apt update && sudo apt install awscli -y**

**2. curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip"**

**unzip awscliv2.zip**

**sudo ./aws/install**

3. **aws --version**

2. Configure AWS credentials:

**AWS configure**

Enter your AWS Access Key, Secret Key, but don’t configure the access key and secret key because when we need to use multiple regions.

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**Step 3: Write Terraform Code for Lauch EC2 instance in two regions.**

For this we need to create a terraform workspace for create environments so we can use same terraform file for multiple regions.

1. First create a virtual environments ProjectA and ProjectB. Using Terraform workspace method.

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1. Now Create a main.tf, provider.tf and variable.tf files in workspace directory.

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1. Select the virtual environment to run the terraform infrastructure

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1. Terraform init.

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1. Terraform plan

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1. Terraform apply -auto-approve

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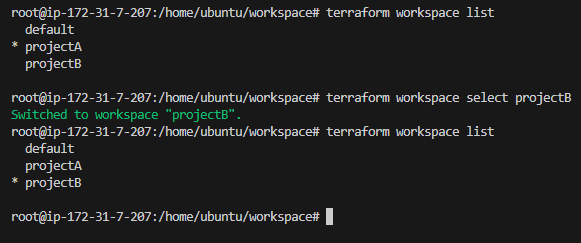
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1. Now check the AWS console ap-south-1 region will have one EC2.

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1. Now switch to projectB and repeat the types.



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Now two EC2 instance created in two regions but same main.tf file.