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Hands-On Labs

Lab: Execute changes to infrastructure with Terraform terraform apply

The terraform apply command executes the actions proposed in a Terraform plan.

- Task 1: Apply a Terraform Plan
- Task 2: Auto Approve Execution of an Apply
- Task 3: Execute a saved Terraform Plan

Task 1: Apply a Terraform Plan

The most straightforward way to use terraform apply is to run it without any arguments at all, in which case it will automatically create a new execution plan (as if you had run terraform plan) and then prompt you to approve that plan, before taking the indicated actions.

Make an update the Environment tag of the vpc resource

```
resource "aws_vpc" "vpc" {
  cidr_block = var.vpc_cidr

  tags = {
    Name = var.vpc_name
    Environment = "stage"
    Terraform = "true"
  }
}
```

```
terraform apply
```

Review the new execution plan and approve it.



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```
# (14 unchanged attributes hidden)
}

Plan: 0 to add, 1 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

Enter a value: yes

aws_vpc.vpc: Modifying... [id=vpc-08b492b03641cb916]
aws_vpc.vpc: Modifications complete after 1s [id=vpc-08b492b03641cb916]

Apply complete! Resources: 0 added, 1 changed, 0 destroyed.
```

Task 2: Auto Approve Execution of an Apply

Make another update the Environment tag of the vpc resource

```
resource "aws_vpc" "vpc" {
  cidr_block = var.vpc_cidr

  tags = {
    Name = var.vpc_name
    Environment = "QA"
    Terraform = "true"
  }
}
```

```
terraform apply -auto-approve
```



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```
# (4 unchanged elements hidden)
}
# (14 unchanged attributes hidden)
}

Plan: 0 to add, 1 to change, 0 to destroy.
aws_vpc.vpc: Modifying... [id=vpc-08b492b03641cb916]
aws_vpc.vpc: Modifications complete after 1s [id=vpc-08b492b03641cb916]

Apply complete! Resources: 0 added, 1 changed, 0 destroyed.
```

Note that there is no prompt for approval of the plan with this execution. This is ideal for automated pipelines and workflows but should be used with caution.

Task 3: Execute a saved Terraform Plan

Make another update the Environment tag of the vpc resource

```
resource "aws_vpc" "vpc" {
  cidr_block = var.vpc_cidr

  tags = {
    Name = var.vpc_name
    Environment = "test-dev"
    Terraform = "true"
  }
}
```

```
terraform plan -out=myplan
```

```
terraform apply myplan
```

```
aws_vpc.vpc: Modifying... [id=vpc-08b492b03641cb916]
aws_vpc.vpc: Modifications complete after 2s [id=vpc-08b492b03641cb916]
Apply complete! Resources: 0 added, 1 changed, 0 destroyed.
```

