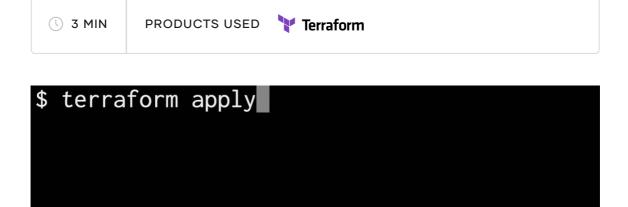


Query Data with Outputs



1:48

In the previous tutorial, you used an input variable to parameterize your Terraform configuration. In this tutorial, you will use output values to organize data to be easily queried and displayed to the Terraform user.

If you have not yet completed the Define Input Variables tutorial, do so before following this one.

Initial configuration

After following the previous tutorials in this collection, you will have a directory named learn-terraform-aws-instance with the following configuration.

```
# main.tf
                                                           Copy 🚉
terraform {
  required_providers {
    aws = {
      source = "hashicorp/aws"
      version = "~> 3.27"
    }
  }
  required version = ">= 0.14.9"
}
provider "aws" {
  profile = "default"
  region = "us-west-2"
}
resource "aws_instance" "app_server" {
                = "ami-08d70e59c07c61a3a"
  instance type = "t2.micro"
  tags = {
    Name = var.instance name
}
# variables.tf
variable "instance name" {
  description = "Value of the Name tag for the EC2 instance"
 type
             = string
```

Ensure that your configuration matches this, and that you have initialized your configuration in the learn-terraform-aws-instance directory.

default = "ExampleAppServerInstance"

}

```
$ terraform init
```

Copy 🚉

Apply the configuration before continuing this tutorial. Respond to the confirmation prompt with a yes .

```
$ terraform apply Copy
```

Output EC2 instance configuration

Create a file called outputs.tf in your learn-terraform-aws-instance directory.

Add the configuration below to outputs.tf to define outputs for your EC2 instance's ID and IP address.

```
output "instance_id" {
    description = "ID of the EC2 instance"
    value = aws_instance.app_server.id
}

output "instance_public_ip" {
    description = "Public IP address of the EC2 instance"
    value = aws_instance.app_server.public_ip
}
```

Inspect output values

You must apply this configuration before you can use these output values. Apply your configuration now. Respond to the confirmation prompt with yes .

```
$ terraform apply Copy ☐ aws_instance.app_server: Refreshing state... [id=i-0bf954919ed765d€
```

```
An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
Terraform will perform the following actions:
Plan: 0 to add, 0 to change, 0 to destroy.
Changes to Outputs:
                       = "i-0bf954919ed765de1"
 + instance id
 + instance public ip = "54.186.202.254"
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
Apply complete! Resources: 0 added, 0 changed, 0 destroyed.
Outputs:
instance id = "i-0bf954919ed765de1"
instance public ip = "54.186.202.254"
```

Terraform prints output values to the screen when you apply your configuration. Query the outputs with the terraform output command.

```
$ terraform output
instance_id = "i-0bf954919ed765de1"
instance public ip = "54.186.202.254"
```

You can use Terraform outputs to connect your Terraform projects with other parts of your infrastructure, or with other Terraform projects. To learn more, follow our in-depth tutorial, Output Data from Terraform.

Destroy infrastructure

Tip: If you plan to continue to the next tutorial in this collection, skip this destroy step.

Destroy your infrastructure. Respond to the confirmation prompt with yes .

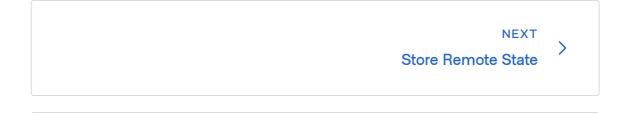
```
$ terraform destroy
                                                          Copy 🚉
An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
  - destrov
Terraform will perform the following actions:
 # aws instance.app_server will be destroyed
  - resource "aws instance" "app server" {
                                     = "ami-08d70e59c07c61a3a" -> r
      - ami
                                     = "arn:aws:ec2:us-west-2:56165
      - arn
##...
Plan: 0 to add, 0 to change, 1 to destroy.
Changes to Outputs:
  - instance id = "i-0bf954919ed765de1" -> null
  - instance public ip = "54.186.202.254" -> null
Do you really want to destroy all resources?
  Terraform will destroy all your managed infrastructure, as shown
 There is no undo. Only 'yes' will be accepted to confirm.
  Enter a value: yes
aws_instance.app_server: Destroying... [id=i-0bf954919ed765de1]
aws instance.app server: Still destroying... [id=i-0bf954919ed765d€
aws_instance.app_server: Still destroying... [id=i-0bf954919ed765d€
aws_instance.app_server: Still destroying... [id=i-0bf954919ed765de
aws instance.app server: Destruction complete after 31s
```

Destroy complete! Resources: 1 destroyed.

Was this tutorial helpful?

Yes

No



PREVIOUS

Define Input Variables

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