**Terraform Modules**

* A Terraform module is a reusable set of terraform configuration files.
* Terraform has lot of modules from community which can be reused

A module is **a container for multiple resources that are used together**. Every Terraform configuration has at least one module, known as its root module, which consists of the resources defined in the . tf files in the main working directory.

<https://developer.hashicorp.com/terraform/language/modules/sources#github>

How to create terraform module?

By defining below values in the main.tf file

module "webserver\_cluster" {  
 source = "../../../modules/services/webserver-cluster" cluster\_name = "webservers-stage"  
 db\_remote\_state\_bucket = "(YOUR\_BUCKET\_NAME)"  
 db\_remote\_state\_key = "stage/data-stores/mysql/terraform.tfstate"  
}

Blog: <https://blog.gruntwork.io/how-to-create-reusable-infrastructure-with-terraform-modules-25526d65f73d>

* Module demo <https://github.com/asquarezone/TerraformZone/commit/8a1e26f0e90e3d1018c607c6774069c4c2743390> for module usage with aws
* To create ec2 <https://registry.terraform.io/modules/terraform-aws-modules/ec2-instance/aws/latest>

## Terraform provisioners

* Provisioners are for performing activities in local or remote instance after resource creation
  + local <https://developer.hashicorp.com/terraform/language/resources/provisioners/syntax#provisioners>
  + remote <https://developer.hashicorp.com/terraform/language/resources/provisioners/remote-exec>