Terraform taint

Terraform taint is a command that allows you to **mark a resource** for **recreation** during the next **terraform apply.**.

 Define null resource in Terraform.

null\_resource implements standard resource library, but no further action is taken. The triggers argument allows an arbitrary set of values that will cause the replacement of resources when changed.

What do you understand by terraform backend?

Each Terraform configuration can specify a backend, which defines two main things:

* Where operations are performed
* Where the state is stored (Terraform keeps track of all the resources created in a state file)

Here are some basic CLI commands:

* terraform init - prepares your working directory for other commands
* terraform destroy - destroys the previously-created infrastructure
* terraform validate - check whether the configuration is valid
* terraform apply - creates or updates the infrastructure
* terraform plan - shows changes needed by the current configuration

How is duplicate resource error ignored during terraform apply?

We can try the following options:

1. Delete those resources from the [cloud provider](https://www.simplilearn.com/selecting-the-right-cloud-provider-article)(API) and recreate them using Terraform
2. Delete those resources from Terraform code to stop its management with it
3. Carry out a terraform import of the resource and remove the code that is trying to recreate them
4. What are some of the built-in provisioners available in Terraform?

Here is the list of built-in provisioners in Terraform:

* Salt-masterless Provisioner
* Remote-exec Provisioner
* Puppet Provisioner
* Local-exec Provisioner
* Habitat Provisioner
* File Provisioner

### What is Terraform D?

Terraform D is a plugin used on most in-service systems and Windows. Terraform init by default searches next directories for plugins.

### What is the Remote Backend in Terraform?

In Terraform, the Remote Backend is an extension used to state the status of Terraform and run the Terraform cloud operations. The backend operation consists of several commands to carry out all the operations of Terraform. The remote function can work on a single cloud workspace to access multiple fronts for executing remote applications like a plan or application.

### Explain State File Locking?

State file locking is Terraform mechanism in which operations on a specific state file are blocked to avoid conflicts between multiple users performing the same process. When one user releases the lock, then only the other one can operate on that state. This helps in preventing state file corruption. This is a backend operation.