



Terraform Cheat Sheet

Format and Validate Terraform code

Command	What does it do?
terraform fmt	format code per HCL canonical standard
terraform validate	validate code for syntax
terraform validate -backend=false	validate code skip backend validation

Initialize your Terraform working directory

Command	What does it do?
terraform init	initialize directory, pull down providers
terraform init -get-plugins=false	initialize directory, do not download plugins
terraform init -verify-plugins=false	initialize directory, do not verify plugins for signature

Plan, Deploy and Cleanup Infrastructure

Command	What does it do?
terraform apply --auto-approve	apply changes without being prompted to enter 'yes'
terraform destroy --auto-approve	destroy/cleanup deployment without being prompted for 'yes'
terraform plan -out plan.out	output the deployment plan to plan.out
terraform apply plan.out	use the plan.out plan file to deploy infrastructure
terraform plan -destroy	outputs a destroy plan
terraform apply -target=aws_instance.my_ec2	only apply/deploy changes to the targeted resource
terraform apply -var my_region_variable=us-east-1	pass a variable via command-line while applying a configuration
terraform apply refresh=false	do not reconcile state file with real-world resources
terraform apply --parallelism=5	number of simultaneous resource operations
terraform refresh	reconcile the state in Terraform state file with real-world resources
terraform providers	get information about providers used in current configuration

Terraform Workspaces	
Command	What does it do?
terraform workspace new mynewworkspace	create a new workspace
terraform workspace select default	change to the selected workspace
terraform workspace list	list out all workspaces

Terraform State Manipulation	
Command	What does it do?
terraform state show aws_instance.my_ec2	show details stored in Terraform state for the resource
terraform state pull > terraform.tfstate	download and output terraform state to a file
terraform state mv aws_lambda_role.my_ssm_role module.custom_module	move a resource tracked via state to different module
terraform state replace-provider hashicorp/aws registry.custom.com/aws	replace an existing provider with another
terraform state list	list out all the resources tracked via the current state file
terraform state rm aws_instance.myinstance	unmanage a resource, delete it from Terraform state file

Terraform Import And Outputs

Command	What does it do?
terraform import aws_instance.new_ec2_instance i-abcd1234	import EC2 instance with id i-abcd1234 into the Terraform resource named "new_ec2_instance" of type "aws_instance"
terraform import 'aws_instance.new_ec2_instance[0]' i-abcd1234	same as above, imports a real-world resource into an instance of Terraform resource
terraform output	list all outputs as stated in code
terraform output instance_public_ip	list out a specific declared output
terraform output -json	list all outputs in JSON format

Terraform Miscellaneous commands

Command	What does it do?
terraform version	display Terraform binary version, also warns if version is old
terraform get -update=true	download and update modules in the "root" module.

Terraform Graph(Dependency Graphing)

Command	What does it do?
terraform graph dot -Tpng > graph.png	produce a PNG diagrams showing relationship and dependencies between Terraform resource in your configuration/code

Terraform Console(Test out Terraform interpolations)	
Command	What does it do?
echo 'join(" ", ["foo", "bar"])' terraform console	echo an expression into terraform console and see its expected result as output
echo '1 + 5' terraform console	Terraform console also has an interactive CLI just enter "terraform console"
echo "aws_instance.my_ec2_public_ip" terraform console	display the Public IP against the "my_ec2" Terraform resource as seen in the Terraform state file

Terraform Taint/Untaint

Command	What does it do?
terraform taint aws_instance.my_ec2	taints resource to be recreated on next apply
terraform untaint aws_instance.my_ec2	Remove taint from a resource
terraform force-unlock LOCK_ID	forcefully unlock a locked state file, LOCK_ID provided when locking the State file beforehand

Terraform Cloud

Command	What does it do?
terraform login	obtain and save API token for Terraform cloud
terraform logout	Log out of Terraform Cloud, defaults to hostname app.terraform.io

Main commands:

- ★ **init:** Prepare your working directory for other commands
- ★ **validate:** Check whether the configuration is valid
- ★ **plan:** Show changes required by the current configuration
- ★ **apply:** Create or update infrastructure
- ★ **destroy:** Destroy previously-created infrastructure