Terraform Cheat Sheet



Installation

See https://developer.hashicorp.com/terraform/downloads for installation instructions for your platform. Then run terraform -install-autocomplete to enable shell autocompletion.

Initializing Terraform	
Command	Description
terraform init	Prepare your working directory for other commands
terraform init -upgrade	Upgrade modules/providers to the latest allowed versions
terraform get	Only download and install modules

Making infrastructure changes	
Command	Description
terraform plan	Show changes required by the current configuration
terraform plan -out= <file></file>	Write the plan to a file to apply it later
terraform plan -target <resource></resource>	Create a plan for a specific module or resource
terraform plan -replace <resource></resource>	Force the plan to replace a specific resource
terraform plan -var ' <key>=<value>'</value></key>	Set a value for one of the input variables
terraform plan -refresh-only	Inspect resource drift without updating the state file
terraform apply	Create or update infrastructure
terraform apply <file></file>	Create or update infrastructure using a plan file
terraform apply -target <resource></resource>	Create or update a specific resource
terraform apply -replace <resource></resource>	Force the replacement of a specific resource
terraform apply -auto-approve	Skip interactive approval of plan before applying

Inspecting output values	
Command	Description
terraform output	Show all output values
terraform output -json	Show all output values in JSON format
terraform output <name></name>	Show a specific output value
terraform output -raw <name></name>	Show a specific output value without quotes

Description
Show the current state in human-readable form
Show a human-readable state or plan file
Show a state or plan file in JSON format
List all resources in the state file
Show details about a resource
Rename a resource in the state file
Remove a resource from the state file
Replace provider for resources in the state
Import existing infrastructure into Terraform
Pull current state and output to stdout
(Deprecated) Update state to match reality

Tainting resources	
Command	Description
terraform taint <resource></resource>	(Deprecated) Mark a resource to be replaced
terraform untaint <resource></resource>	Mark a resource as no longer tainted

Destroying infrastructure	
Command	Description
terraform destroy	Destroy infrastructure managed by Terraform
terraform destroy -target <resource></resource>	Destroy a specific resource

Formatting and validation	
Command	Description
terraform validate	Check whether the configuration is valid
terraform fmt	Reformat your configuration in the standard style
terraform fmt -check	Check whether the configuration is formatted correctly, return non-zero exit code if not

Terraform Cloud / Remote Authentication	
Command	Description
terraform login	Log in to Terraform Cloud
terraform login <hostname></hostname>	Log in to a different host
terraform logout	Log out of Terraform Cloud
terraform logout <hostname></hostname>	Log out of a different host

Managing workspaces	
Command	Description
terraform workspace list	List all existing workspaces
terraform workspace show	Show the name of the current workspace
terraform workspace select <name></name>	Select a different workspace
terraform workspace new <name></name>	Create a new workspace
terraform workspace delete <name></name>	Delete an existing workspace

Other commands	
Command	Description
terraform providers	Show the providers required for this configuration
terraform force-unlock <lock-id></lock-id>	Release a stuck lock
terraform console	Try Terraform expressions at an interactive prompt
terraform graph dot -Tpng > graph.png	Generate a visual graph of Terraform resources
terraform version	Show the current Terraform version
terraform -help	Show help output for Terraform
terraform -help <command/>	Show help output for a specific Terraform command

Referencing Named Values	
Syntax	Description
<resource_type>.<name></name></resource_type>	Reference to a managed resource
var. <name></name>	Reference to an input variable
local. <name></name>	Reference to a local value
module. <module name=""></module>	Reference to a child module
data. <data type="">.<name></name></data>	Reference to a data source

Conditional Expressions	
Syntax	Description
condition ? true : false	If condition is true, return true, otherwise return false

Splat Expressions	
Syntax	Description
<pre><resource_type>.<name>[*].<attribute></attribute></name></resource_type></pre>	Return a list of values for the given attribute of all instances of a resource

Resource Meta-Arguments	
Argument	Description
depends_on	Explicitly specify resource dependencies
count	Create multiple instances of a resource
for_each	Create an instance of a resource for each element in a map or set
provider	Specify a provider configuration block to use for this resource
lifecycle	Configure the behavior of a resource over its lifetime

Lifecycle Meta-Argument Attributes	
Argument	Description
create_before_destroy	Create the new resource before destroying the old one
prevent_destroy	Prevent Terraform from destroying the resource
ignore_changes	Ignore changes to specific resource attributes