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

Managing state	
Command	Description
terraform show	Show the current state in human-readable form
terraform show <file></file>	Show a human-readable state or plan file
terraform show -json <file></file>	Show a state or plan file in JSON format
terraform state list	List all resources in the state file
terraform state show <resource></resource>	Show details about a resource
terraform state mv <source/> <dest></dest>	Rename a resource in the state file
terraform state rm <resource></resource>	Remove a resource from the state file
<pre>terraform state replace-provider <from> <to></to></from></pre>	Replace provider for resources in the state
<pre>terraform import <resource> <remote_id></remote_id></resource></pre>	Import existing infrastructure into Terraform
terraform state pull	Pull current state and output to stdout
terraform refresh	(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