Terraform Cheat Sheet

by williamarobinson via cheatography.com/202584/cs/43003/

Code Syntax

terraform fmt	Formats Terraform configuration files to a canonical format.
terraform validate	Validates the syntax and configuration of Terraform files.

Initializing Terraform

terraform init	Initializes the working directory containing Terraform configuration files.
terraform init -upgrade	Updates provider plugins to the latest versions.

Provisioning Infrastructure

terraform plan	Generates an execution plan showing what Terraform will do.
terraform apply	Applies the changes required to reach the desired state.
terraform destroy	Destroy all remote objects managed.

Miscellaneous

terraform version	Displays the Terraform version information.
terraform console	Opens an interactive console to evaluate Terraform expressions.
terraform graph	Generates a visual representation of Terraform resources and dependencies.

Azure Service Principal

```
provider "azurerm" {
    fea tures {}

    sub scr ipt ion_id = " <su bsc rip tio n_i d>"
    cli ent_id = " <ap pli cat ion _id >"
    cli ent _secret = " <se cre t_v alu e>"
    ten ant_id = " <te nan t_i d>"
}
```

Azure Backend

```
terraform {
    backend " azu rer m" {
        res our ce_ gro up_name = " <re sou rce -
_gr oup _na me> "
        sto rag e_a cco unt _name = " <st ora ge_ -
acc oun t_n ame >"
        con tai ner _name = " <co nta ine r_n ame -
>"
       key = " <st ate _fi le_ key >"
        acc ess_key = " <st ora ge_ acc oun t_a -
cce ss_ key >"
    }
}
```

Azure Required Provider

```
terraform {
    req uir ed_ pro viders {
        azurerm = {
            source = " has hic orp /az ure rm"
            version = " ~> x.xx.x "
        }
    }
}
```

Valid Operators:

= : Allows only one exact version number.

!= : Excludes an exact version number.

>, >=, <, <=: Comparisons against a specified version.

~>: Allows only the rightmost version component to increment.

Terraform State

terraform state list	Lists all resources in the Terraform state.
terraform state show <resource>	Shows the attributes of a specific resource in the Terraform state.
terraform state rm <resource>	Removes a resource from the Terraform state.
terraform state mv <old-resource> <new-resource>	Moves a resource within the Terraform state.

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Terraform State Backend

terraform init -backend--config=<config>	Initializes Terraform with a specific backend configuration.
terraform remote config	Configures remote state storage.
terraform remote pull	Retrieves the current state from the remote backend.
terraform remote push	Uploads the local state to the remote backend.

Command-Line Flags

-upgrade	Opt to upgrade modules and plugins
-reconfigure	Disregards any existing configuration and state.
-input=true|-false	Ask for input if necessary. If false, will error if input was required.
-no-color	Disable text coloring & formatting in the output.
-var 'NAME=-VALUE'	Sets a value for a single input variable.
-var-file=FI-LENAME	Sets values for variables as TFVARS.
-target=A-DDRESS	Focus its efforts only on specific resource instance.

Resource Manipulation

```
moved {
   from = azurer m_r eso urc e_g rou p.e xam -
ple.rg01
   to = azurer m_r eso urc e_g rou p.e xam ple.rg02
}
import {
   to = azurer m_r eso urc e_g rou p.e xam ple.rg03
   id = /subsc rip tio ns/ <su bsc rip tio n_i -
d>/ res our ceG rou ps/ <re sou rce _gr oup _na me>
}
removed {
   from = azurer m_r eso urc e_g rou p.e xam -
ple.rg02
    lif ecycle {
```

Resource Manipulation (cont)

```
>    destroy = false
 }
}
```


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