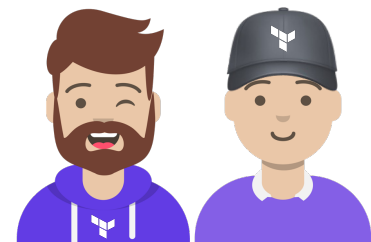




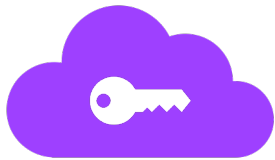
Securing Variables with Terraform Cloud



Keep Your Secrets Out of Code

Why should we centralize our variables?

- Avoid putting sensitive information in your Terraform code
- Information is stored in the state file, which may not be secure
- Helps prevent committing sensitive information to your code repo



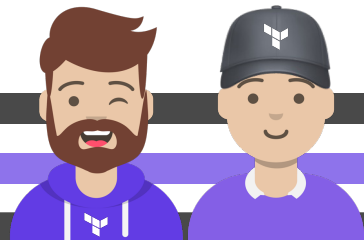
Cloud Credentials



API Tokens



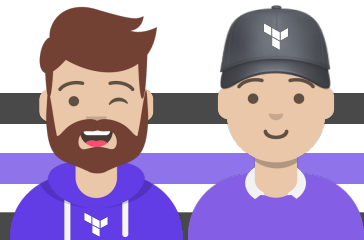
Infrastructure
Secrets



Setting Workspace Variables

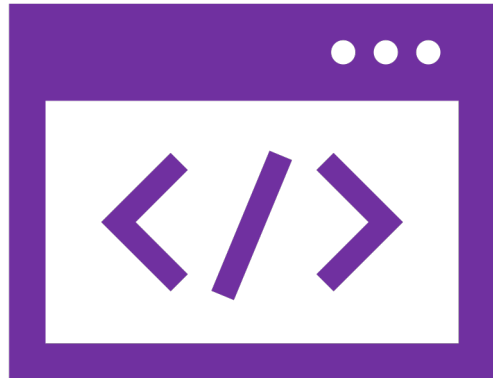


- Variables can be set per Workspace
- If you have variables that are intended to be reusable – e.g., cloud provider creds, API tokens – you can create a Variable Set
- Variables Set can be used applied across Workspaces



Workspace Variables vs. Variable Set

Variables



Baggage App – Prod
Workspace

```
var.access_key  
var.secret_key  
var.google_api
```

These variables are ONLY
available to the Baggage
App–Prod workspace

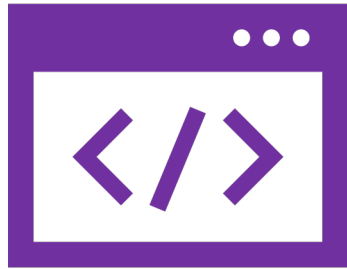


Workspace Variables vs. Variable Set

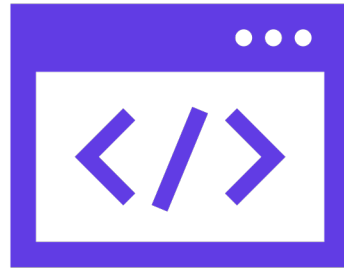


Variable Sets

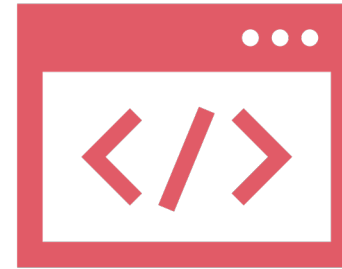
Baggage App



Boarding App



Pick a Seat App



Variable
Set

```
var.subscription  
var.client_key  
var.prod_database
```

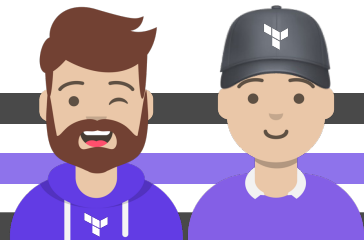
These variables are
available to any of
these workspaces



Variable Types



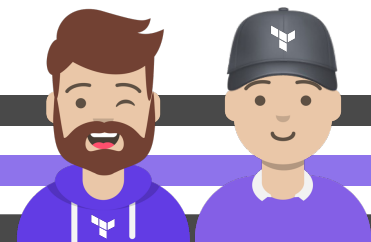
- Terraform Cloud allows configuring two types of variables within each workspace:
 - Environment variables
 - Terraform variables (contents of terraform.tfvars files)
- Variables can be marked as sensitive, in which case they will not be displayed in the UI on subsequent visits.
- Variables can be marked as HCL, allowing the user to define structured and typed values (maps, lists, etc.).



Setting Values using TFVARs



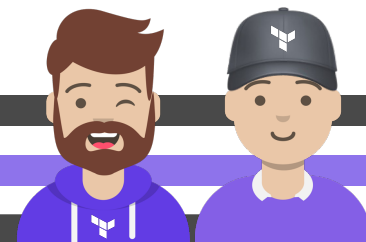
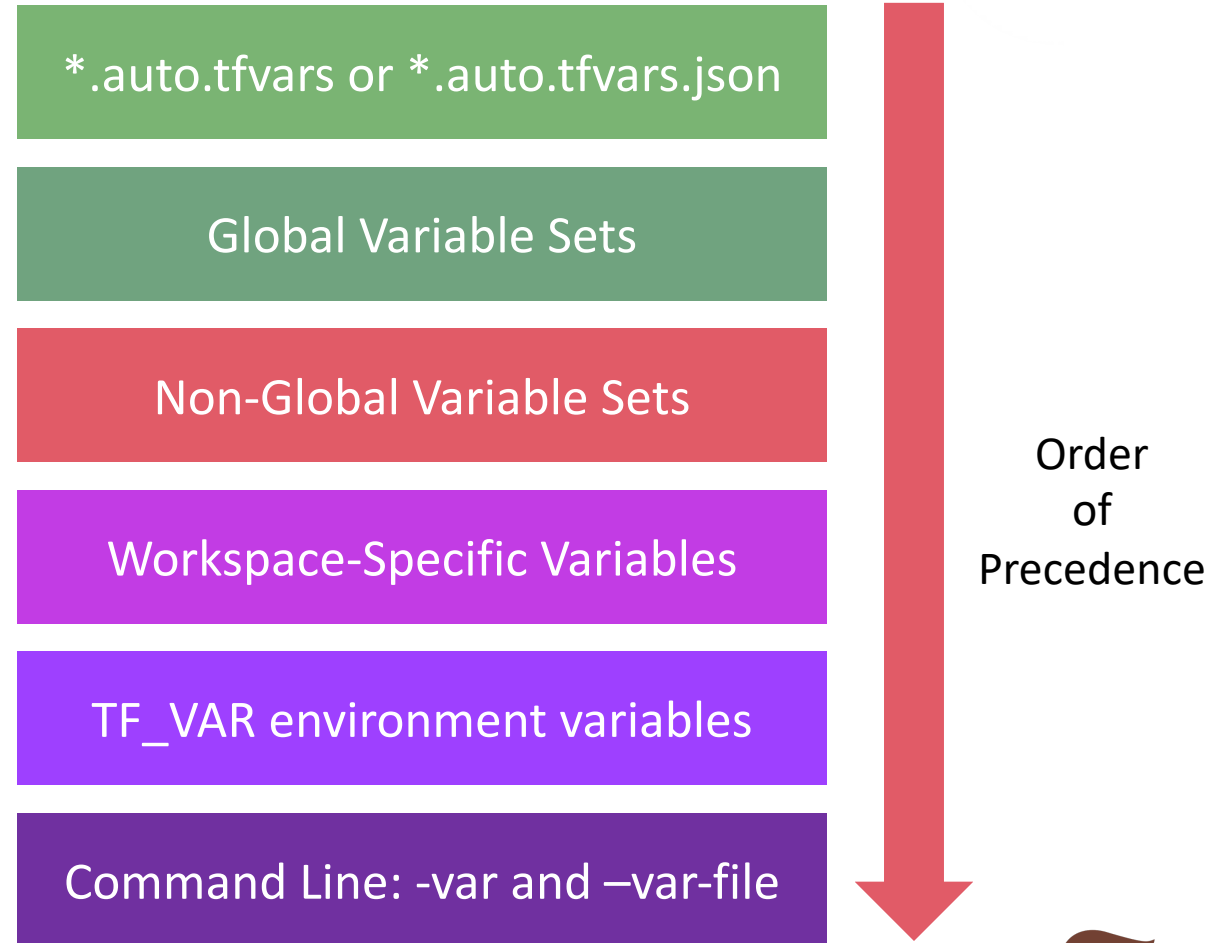
- You can use a `auto.tfvars` file to set **non-sensitive** variables for your Terraform configuration
- Workspaces using Terraform v0.10.0 or later can also load default values from any `*.auto.tfvars` files in the configuration. You may want to use the Terraform Cloud Provider or the variables API to add multiple variables at once



Order of Precedence



- Files ending with *.auto.tfvars
- Variable Sets
- Workspace-specific Values
- Local Values
 - Command Line Arguments
 - TF_VAR environment variables



Order of Precedence

Lower Priority

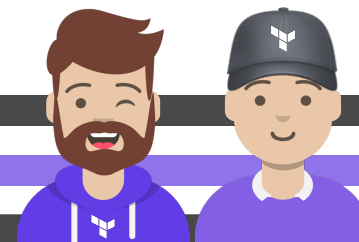
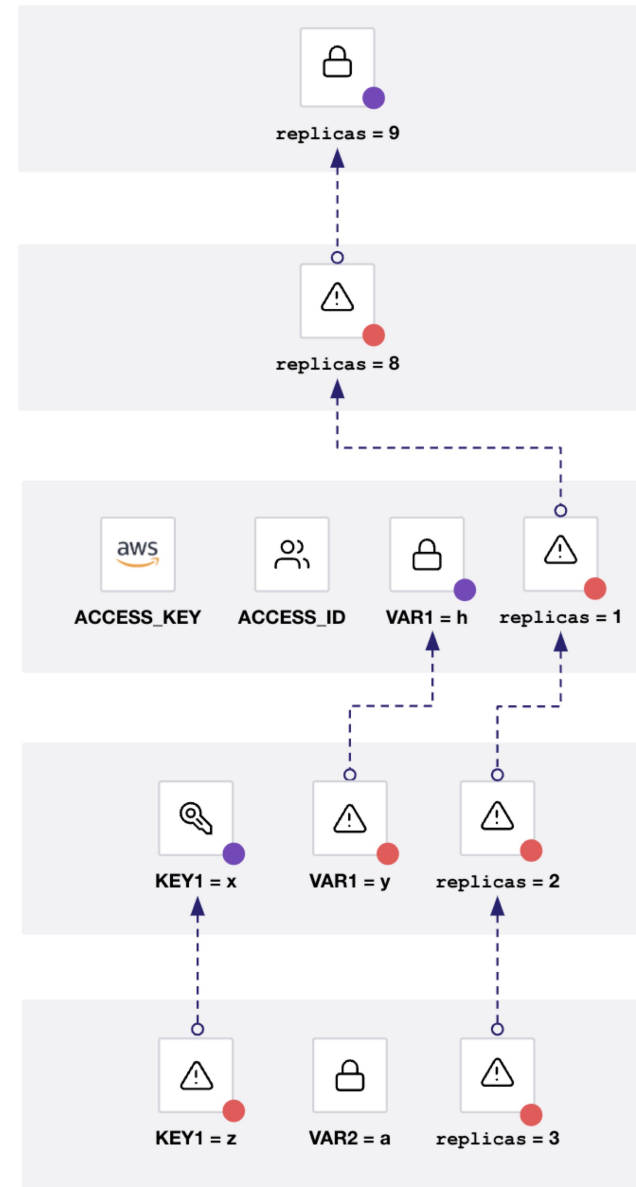
COMMAND LINE
VARIABLE
-var="replicas=9"

LOCAL ENVIRONMENT
VARIABLE
TF_VAR_replicas=8

WORKSPACE-SPECIFIC
VARIABLES

A_VARIABLE_SET

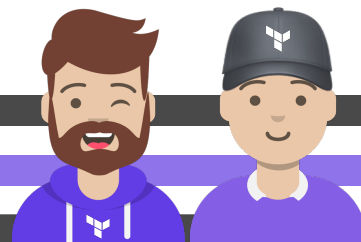
B_VARIABLE_SET
GLOBAL



Recommendation



- Only use *.auto.tfvars files for your `non-sensitive` variables
- If you have sensitive variables, set the values inside the Workspace in the Variables section





END OF SECTION