

Deploying with Terraform Cloud at the CLI



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Overview



Managing workspaces

Variables and values

CLI workflow



Managing Workspaces



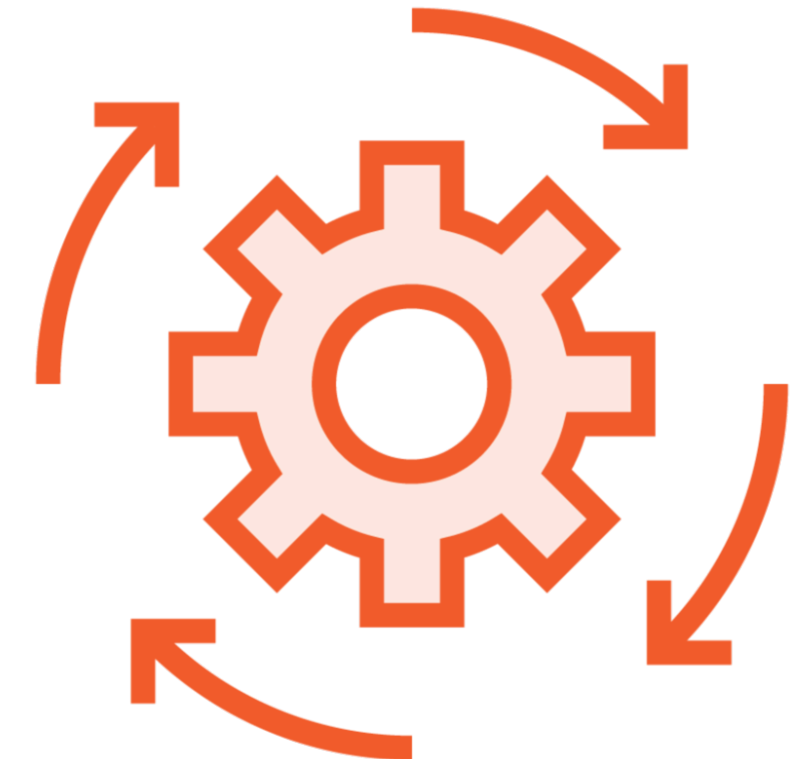
Workspaces



State data



Variables



Operations and logs

Workflows



CLI

Simplest

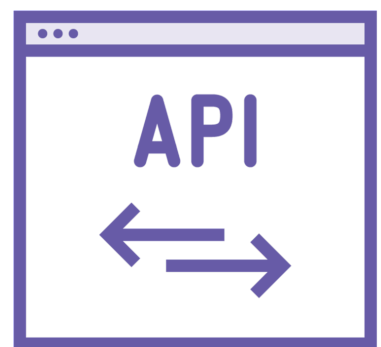
Use standard CLI commands



VCS

Most common

GitOps style workflow



API

Most complex

Advanced automation



Workspace Naming

<app>-<component>-<region>-<environment>

diamonddogs-app-useast1-dev



Demo



Create a workspace for Diamond Dogs

Explore the settings



Variables and Values



Defining Variable Values

A large, stylized blue graphic consisting of the characters '{y,x}' in a decorative, calligraphic font. The characters are enclosed in large curly braces.

Local values

- Command line arguments
- TF_VAR environment variables

Files named *.auto.tfvars

Workspace-specific values

Variable sets

Precedence



Demo



Review code

Define variable values



CLI Workflow



Terraform Cloud Configuration

Cloud block is preferred

backend.tf

Terraform 1.0 and earlier

```
terraform {  
  
  backend "remote" {  
  
    hostname = "app.terraform.io"  
  
    organization = "Globomantics"  
  
    workspaces { name | prefix }  
  
  }  
  
}
```

cloud.tf

Terraform 1.1 and greater

```
terraform {  
  
  cloud {  
  
    hostname = "app.terraform.io"  
  
    organization = "Globomantics"  
  
    workspaces { name | tags }  
  
  }  
  
}
```

Terraform Cloud Configuration

Single or multiple workspaces

single-workspace.tf

```
terraform {  
  
  cloud {  
  
    organization = "Globomantics"  
  
    workspaces {  
  
      name = "dd-aws-diamonddogs-dev"  
  
    }  
  
  }  
  
}
```

multiple-workspaces.tf

```
terraform {  
  
  cloud {  
  
    organization = "Globomantics"  
  
    workspaces {  
  
      tags = ["diamonddogs","aws"]  
  
    }  
  
  }  
  
}
```

Terraform Cloud CLI

Initialize Terraform Cloud connection

```
terraform init
```

Workspace commands, tagging only

```
terraform workspace list
```

```
terraform workspace new dd-aws-diamonddogs-staging
```

```
terraform workspace select dd-aws-diamonddogs-prod
```

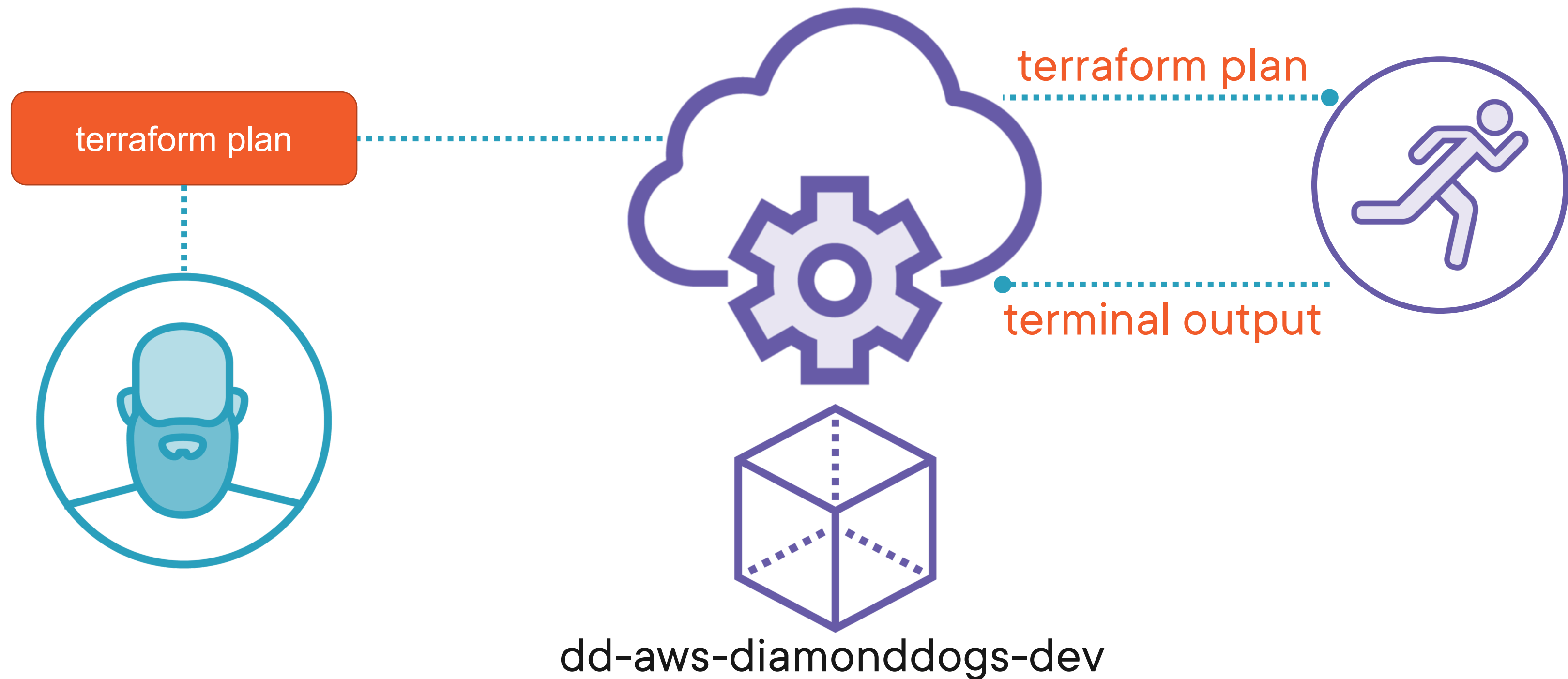
```
terraform workspace delete dd-aws-diamonddogs-staging
```

Using the workspace name

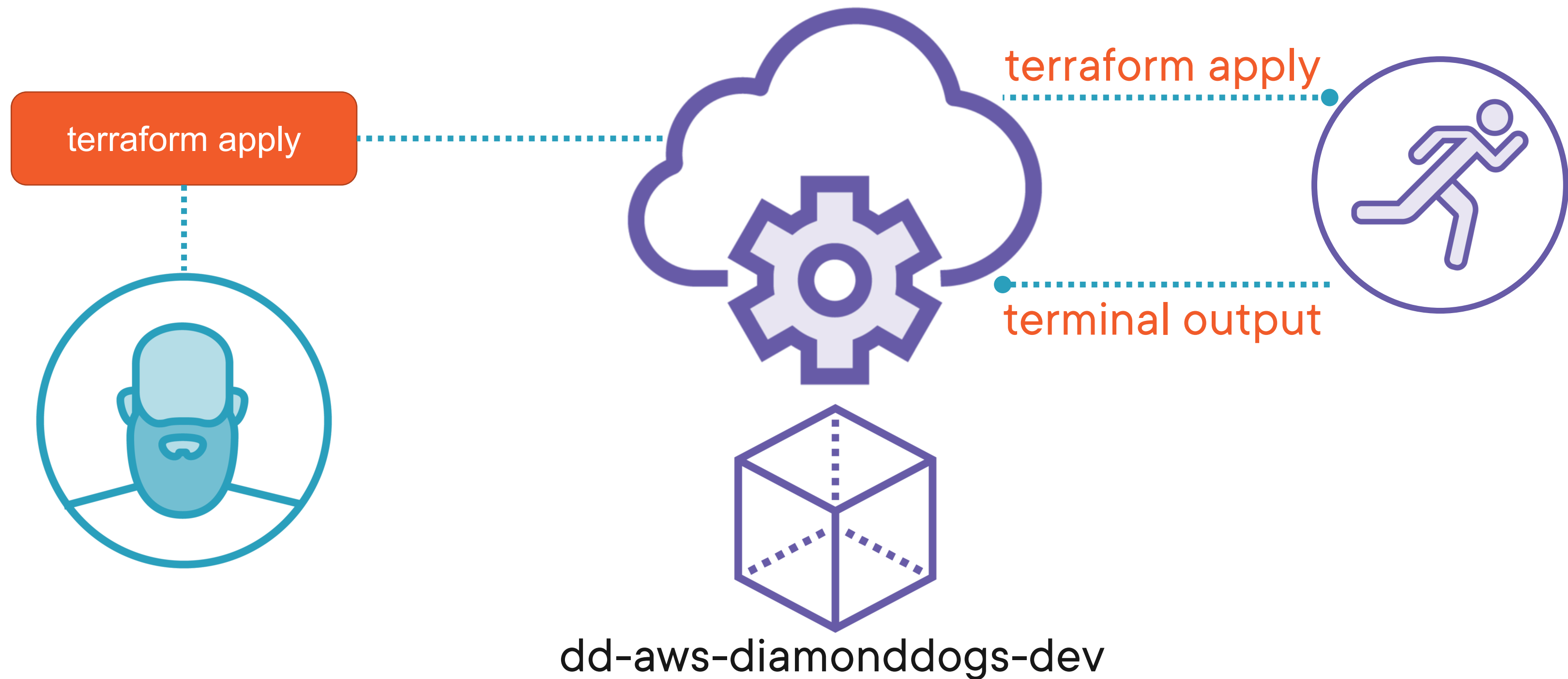
```
${terraform.workspace}
```



Remote Operations



Remote Operations



Demo



Configure cloud block
Provision environment



Summary



Workspaces are the workhorse

Multiple workflow options

CLI workflow is familiar



Up Next:
Adopting a VCS Workflow

