

Configuring Resources After Creation



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Overview



Get the party started with provisioners

What's the (updated) scenario?

Country grammar with Terraform



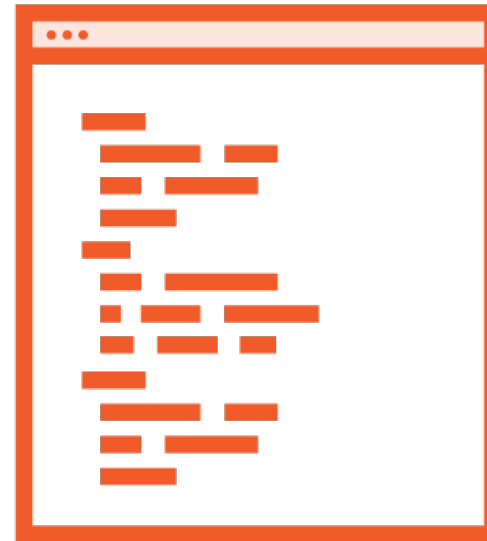
Automating Infrastructure Deployment



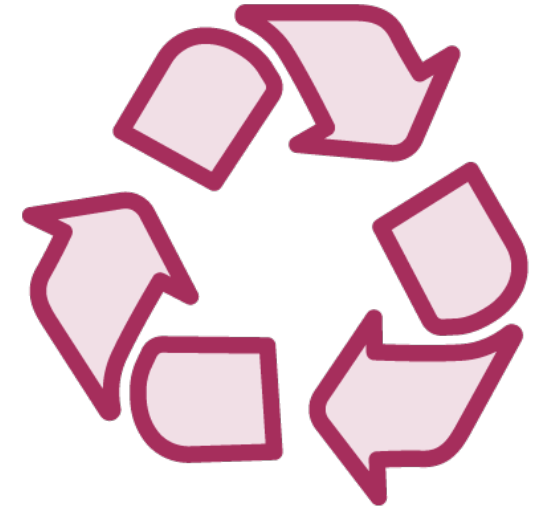
Provisioning
resources



Planning
updates

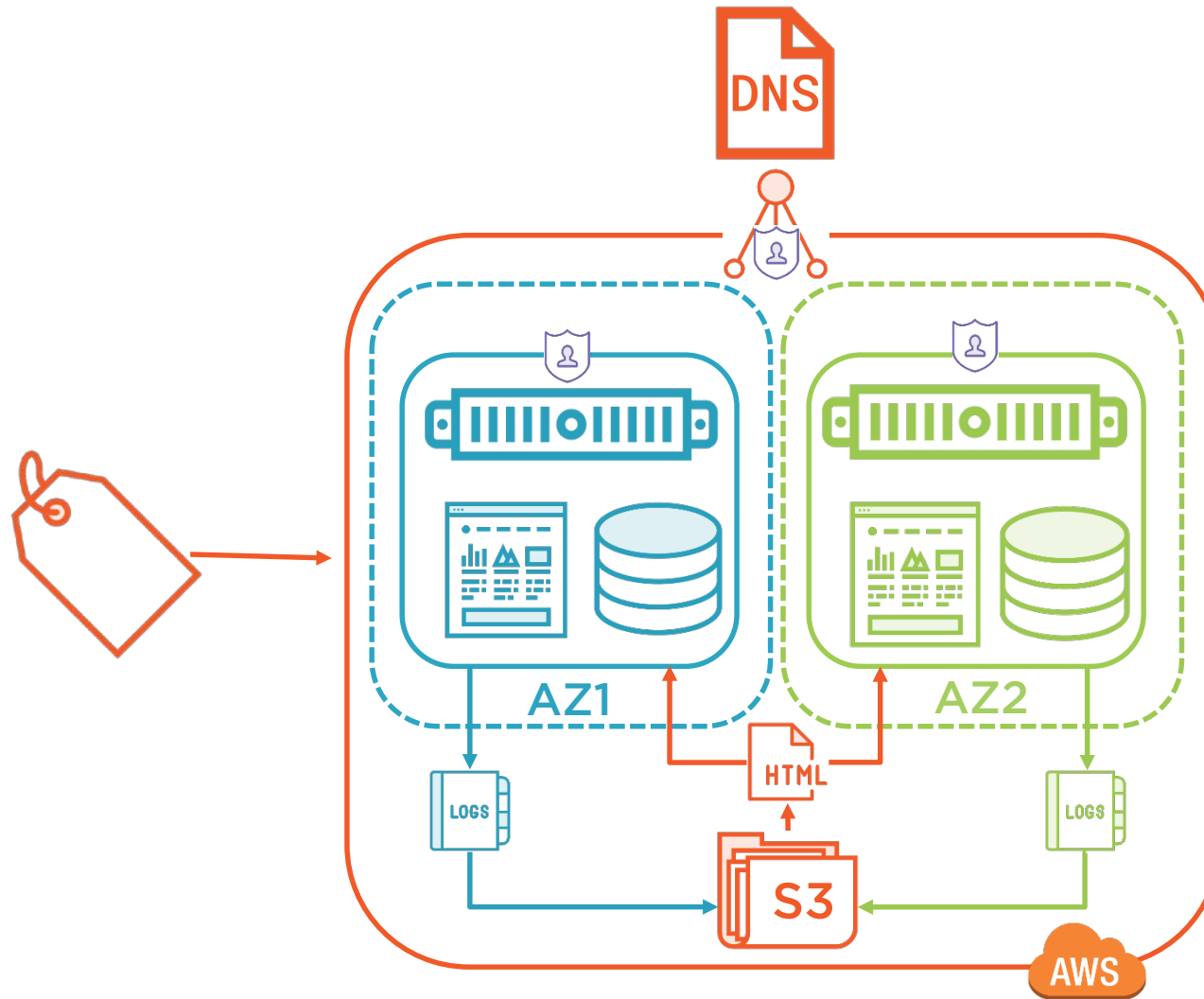


Using source
control



Reusing
templates

The Scenario



Terraform Provisioners



Multiple uses

Local or remote

Creation or destruction

Multiple provisioners

What if it all goes wrong?

Provisioner Example

```
connection {  
    user = "username"  
    private_key = "privatekey"  
}  
  
provisioner "file" {  
    content = <<EOF  
your file content here  
EOF  
    destination = "/path/to/file.txt"  
}
```



Provisioner Example

```
provisioner "local-exec" {  
  command = "local command here"  
}
```

```
provisioner "remote-exec" {  
  scripts = "[list, of, local, scripts]"  
}
```



Terraform Syntax



HashiCorp configuration language

Why not JSON?

Human readable and editable

Interpolation

Conditional, functions, templates

Terraform Syntax

#Create a variable

```
variable var_name {  
    key = value #type, default, description  
}
```

#Use a variable

```
${var.name} #get string  
${var.map["key"]} #get map element  
${var.list[idx]} #get list element
```



Terraform Syntax

#Create provider

```
provider provider_name {  
    key = value #depends on resource, use alias as needed  
}
```

#Create data object

```
data data_type data_name {}
```

#Use data object

```
${data_type.data_name.attribute(args)}
```



Terraform Syntax

#Create resource

```
resource resource_type resource_name {  
    key = value #depends on resource  
}
```

#Reference resource

```
${resource_type.resource_name.attribute(args)}
```



Demo



Examine the Terraform file

Deploy the configuration

Review the results

Play along!

- AWS account
- Terraform software (terraform.io)
- Demo files



Some of the resources
deployed in AWS may cost
money. You've been
warned.



Summary



Terraform provisioners

Syntax and interpolation

S3 buckets, tags, and more!

Coming up

- Providers
- Functions
- Taking cmd.exe!

