From zero to hero

Infrastructure as Code

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Goals for this session

1. Understand how to find a provider

2. Understand how to integrate azurerm provider

3. Create first resources in azure

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Terraform

Where i can find provider?

Provider Registry

How can i integrate a provider?

```terraform
terraform {
  required_providers {
    random = {
      source = "hashicorp/random"
      version = "3.5.1"
    }
  }
  backend "local" {
    path = "iwas.tfstate"
  }
}


provider "random" {
  # Configuration options
}
```

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Practice01

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Terraform

How you can create a Resource

Write it to your main.tf

```
resource "azurerm_resource_group" "rg_example" {
    name        = "terraformcourse"
    location = "West Europe"
}
```

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Structure Resources

Keyword   Ressource Name defined from provider   Choosen Name from me

```
resource "azurerm_resource_group" "rg_example" {

    name     = "terraformcourse"

    location = "West Europe"

}
```

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Practice02

Terraform

How you can link ressources without references

```
 1  resource "azurerm_resource_group" "rg_example" {
 2      name     = "terraformcourse"
 3      location = "switzerlandnorth"
 4  }
 5
 6  resource "azurerm_storage_account" "st_example" {
 7      name                     = "stoterraformdaniel"
 8      resource_group_name      = "terraformcourse"
 9      location                 = "switzerlandnorth"
10      account_tier             = "Standard"
11      account_replication_type = "GRS"
12  }
```

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Terraform

How you should link ressources

```
resource "azurerm_resource_group" "rg_example" {
    name     = "terraformcourse"
    location = "switzerlandnorth"
}


resource "azurerm_storage_account" "st_example" {
    name                     = "stoterraformdaniel"
    resource_group_name      = azurerm_resource_group.rg_example.name
    location                 = azurerm_resource_group.rg_example.location
    account_tier             = "Standard"
    account_replication_type = "GRS"
}
```

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What does this means for terraform ?

```
resource "azurerm_resource_group" "rg_example" {
    name     = "terraformcourse"
    location = "switzerlandnorth"              1.
}


resource "azurerm_storage_account" "st_example" {
    name                     = "stoterraformdaniel"
    resource_group_name      = azurerm_resource_group.rg_example.name
    location                 = azurerm_resource_group.rg_example.location    2.
    account_tier             = "Standard"
    account_replication_type = "GRS"
}
```

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Terraform

Which References are available

– Documented in the provider documentation
– azurerm_storage_account | Resources | hashicorp/azurerm | Terraform Registry

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Practice03

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