MODULE DEPENDENCY

```
module "storage_account" {
  source = "./modules/storage_account"

  storage_account_name = module.naming.name
  depends_on = [ module.keyvault ]
}
```

MODULE DEPENDENCY


```
module "storage_account" {
  source = "./modules/storage_account"

  storage_account_name = module.naming.name
  depends_on = [ module.keyvault ]
}
```

No dependency between modules

```hcl
resource "azurerm_resource_group" "rg" {
  name     = "rg-prod"
  location = "westeurope"
}

module "keyvault" {
  source = "./modules/keyvault"

  key_vault_name      = "kv123579"
  resource_group_name = azurerm_resource_group.rg.name
}

module "storage_account" {
  source = "./modules/storage_account"

  storage_account_name = "strg1235790"
  resource_group_name  = azurerm_resource_group.rg.name
}
```
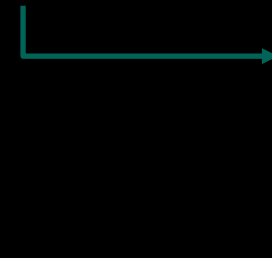
```
terraform init
terraform apply -auto-approve

# azurerm_resource_group.rg: Creating...
# azurerm_resource_group.rg: Creation complete after 2s
# module.storage_account.azurerm_public_ip.pip: Creating...
# module.keyvault.azurerm_key_vault.keyvault: Creating...
# module.keyvault.azurerm_public_ip.pip: Creating...
# module.storage_account.azurerm_storage_account.storage: Creating...
# module.keyvault.azurerm_public_ip.pip: Creation complete after 2s
# module.storage_account.azurerm_public_ip.pip: Creation complete after 2s
# module.storage_account.azurerm_storage_account.storage: Creation complete af
# module.keyvault.azurerm_key_vault.keyvault: Creation complete after 2m9s
```

Resource group

module.storage.pip
module.keyvault.keyvault
module.keyvault.pip
module.storage.storage

Explicit dependency on entire module

```
resource "azurerm_resource_group" "rg" {
  name     = "rg-prod"
  location = "westeurope"
}

module "keyvault" {
  source = "./modules/keyvault"

  key_vault_name      = "kv123579"
  resource_group_name = azurerm_resource_group.rg.name
}

module "storage_account" {
  source = "./modules/storage_account"

  storage_account_name = "strg1235790"
  resource_group_name  = azurerm_resource_group.rg.name

  depends_on = [ module.keyvault ] # explicit dependency
}
```
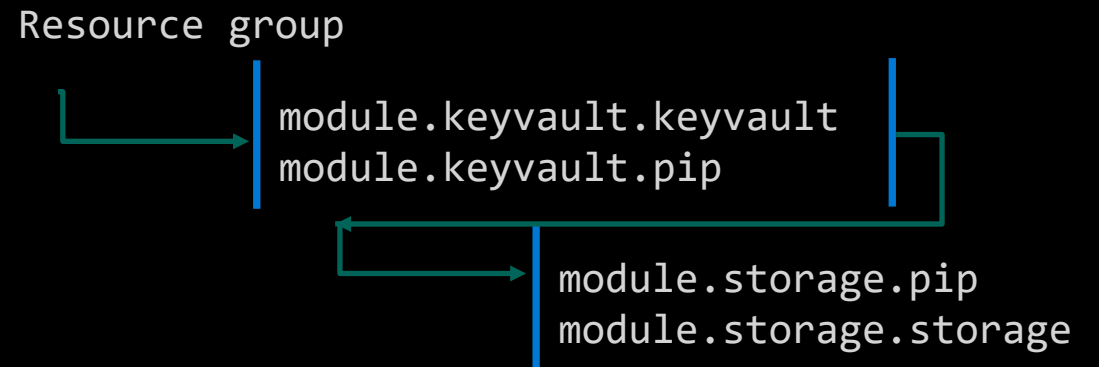
```
terraform apply -auto-approve

# azurerm_resource_group.rg: Creating...
# azurerm_resource_group.rg: Creation complete after 1s
# module.keyvault.azurerm_public_ip.pip: Creating...
# module.keyvault.azurerm_key_vault.keyvault: Creating...
# module.keyvault.azurerm_public_ip.pip: Creation complete after 2s
# module.keyvault.azurerm_key_vault.keyvault: Creation complete after 2m40s
# module.storage_account.azurerm_public_ip.pip: Creating...
# module.storage_account.azurerm_storage_account.storage: Creating...
# module.storage_account.azurerm_public_ip.pip: Creation complete after 3s
# module.storage_account.azurerm_storage_account.storage: Creation complete
```

Resource group

module.keyvault.keyvault
module.keyvault.pip

module.storage.pip
module.storage.storage

Implicit dependency on a resource from module

```
resource "azurerm_resource_group" "rg" {
  name     = "rg-prod"
  location = "westeurope"
}

module "keyvault" {
  source = "./modules/keyvault"

  key_vault_name      = "kv123579"
  resource_group_name = azurerm_resource_group.rg.name
}

module "storage_account" {
  source = "./modules/storage_account"

  # implicit dependency
  storage_account_name = module.keyvault.key_vault_name
  resource_group_name  = azurerm_resource_group.rg.name
}
```

```
terraform apply -auto-approve

# azurerm_resource_group.rg: Creating...
# azurerm_resource_group.rg: Creation complete after 0s
# module.keyvault.azurerm_public_ip.pip: Creating...
# module.storage_account.azurerm_public_ip.pip: Creating...
# module.keyvault.azurerm_key_vault.keyvault: Creating...
# module.keyvault.azurerm_public_ip.pip: Creation complete after 3s
# module.storage_account.azurerm_public_ip.pip: Creation complete after 3s
# module.keyvault.azurerm_key_vault.keyvault: Creation complete after 2m12s
# module.storage_account.azurerm_storage_account.storage: Creating...
# module.storage_account.azurerm_storage_account.storage: Creation complete
```

Resource group

module.keyvault.pip
module.storage.pip
module.keyvault.keyvault

module.storage.storage