

From zero to hero

Infrastructure as Code

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Goals for this session

1. Understand how you can iterate through objects or arrays
2. Understand how to filter on arrays
3. Understand the usage of specific functions

How a array looks like?

```
participants = [  
  "rolf",  
  "manuel",  
  "gianluca",  
  "wolfgang",  
  "matthias",  
  "daniel"  
]  
  
teacher = [  
  "daniel"  
]
```

Iterate over a array

```
participants = [  
  "rolf",  
  "manuel",  
  "gianluca",  
  "wolfgang",  
  "matthias",  
  "daniel"  
]  
  
participants_with_uppercase = [  
  for participant in local.participants : upper(participant)  
]
```

```
[  
  "ROLF",  
  "MANUEL",  
  "GIANLUCA",  
  "WOLFGANG",  
  "MATTHIAS",  
  "DANIEL"  
]
```

Iterate over a array with condition

```
participants = [
  "rolf",
  "manuel",
  "gianluca",
  "wolfgang",
  "matthias",
  "daniel"
]

teacher = ["daniel"]

participants_with_uppercase = [
  for participant in local.participants : upper(participant) if contains(local.teacher, participant)
]
```

```
[
  "ROLF",
  "MANUEL",
  "GIANLUCA",
  "WOLFGANG",
  "MATTHIAS",
]
```


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Practice

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Functions - Configuration Language | Terraform | HashiCorp Developer

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Specific Methods - Networking

```
resource "azurerm_subnet" "ssis_agent" {  
  name = "subnet-sql-ssis-agent"  
  resource_group_name = module.snf_store_azure_group.name  
  virtual_network_name = azurerm_virtual_network.store.name  
  address_prefixes = [cidrsubnet("172.17.30.0/24", 4, 0)]  
}
```

Subnet 172.17.30.0/28 = 16 IPs = 11 Available

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