From zero to hero

# Infrastructure as Code

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ti&m

Terraform\_Basic\_Coding Goals for this session 1. Understand how you can seperate functionality Understand how you structure your code ti&m

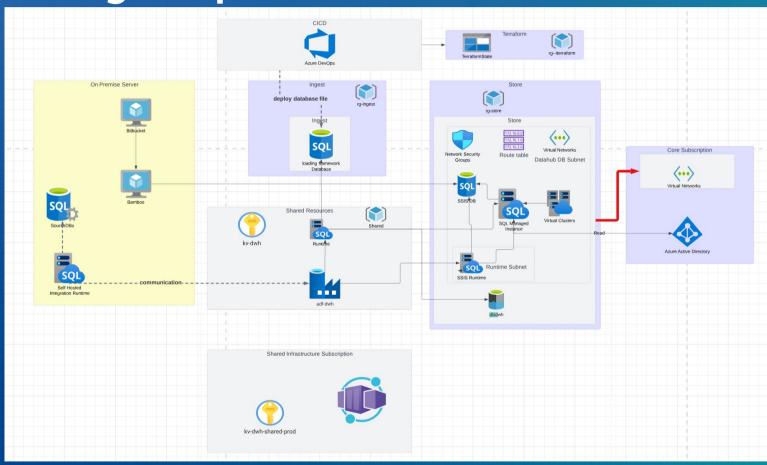
#### Modules

- Like a class from programming language
- Only a folder
- More Maintenance than divide with only seperation of files
- References can be only inside of a module
- Has a
  - main.tf (required)
  - variables.tf (optional)
  - output.tf (optional)
  - providers.tf(should be)

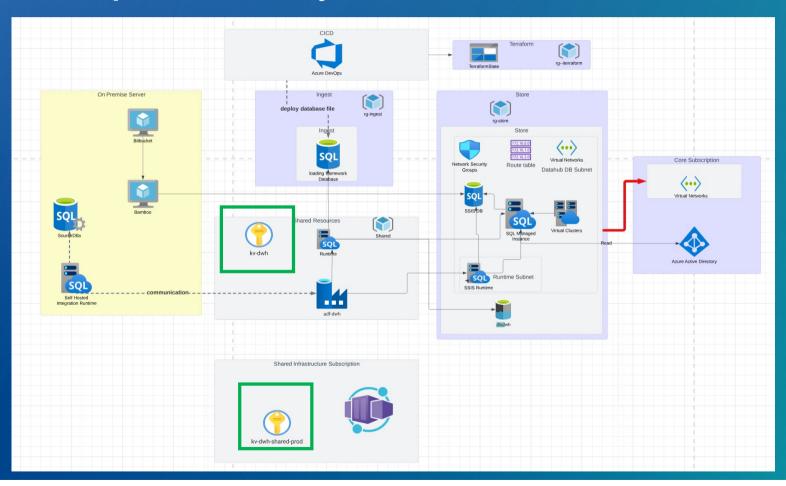
#### How to use them

- Keyword = Module
- Source = Required

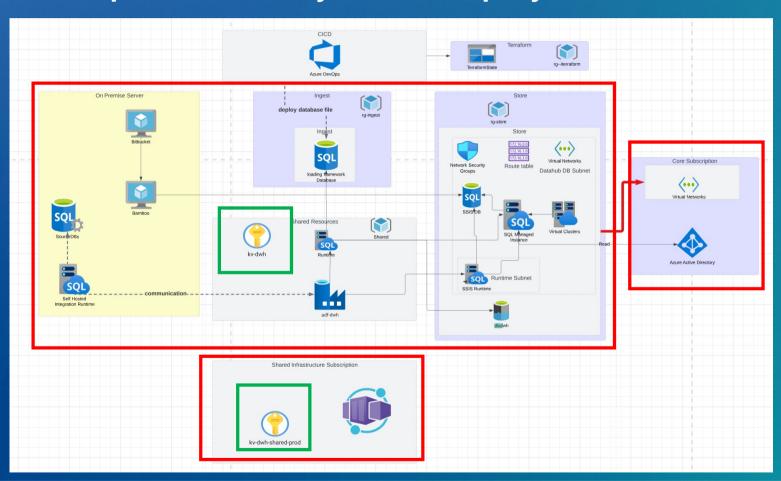
# Find logical parts

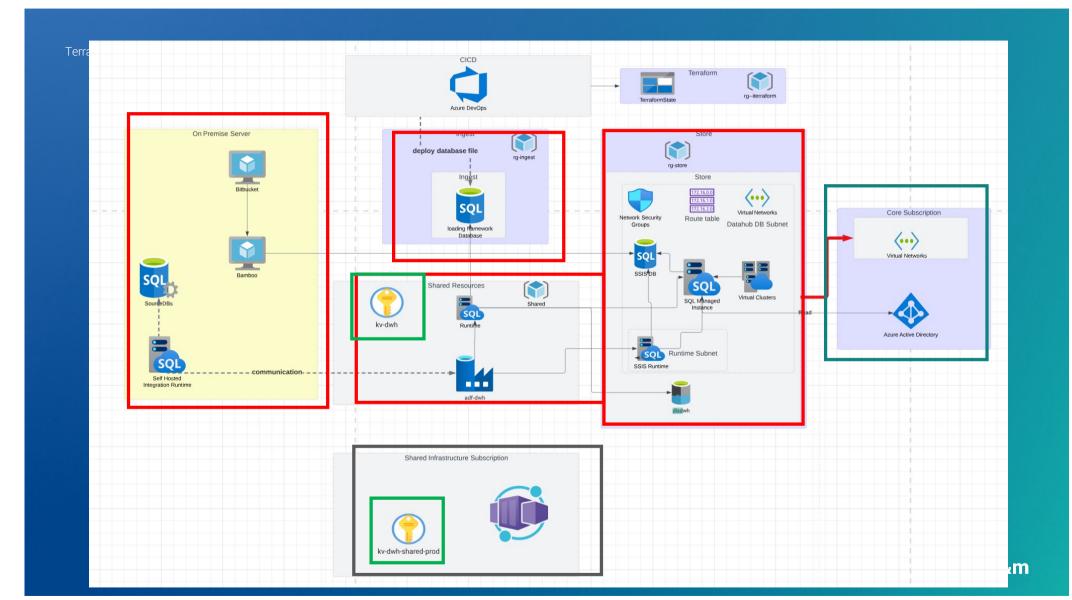


### Find components that you use more than once = Base Modules



#### Find components that you will deploy at the same time





- ∨ ☐ Infrastructure · /Users/dha/Source/Datahub/Infrastructure
  - > **□** .git · no index
  - > 🗀 .idea
  - > 🗀 base\_modules
  - > 🗀 Infrastructure
    - ☐ Infrastructure\_Shared

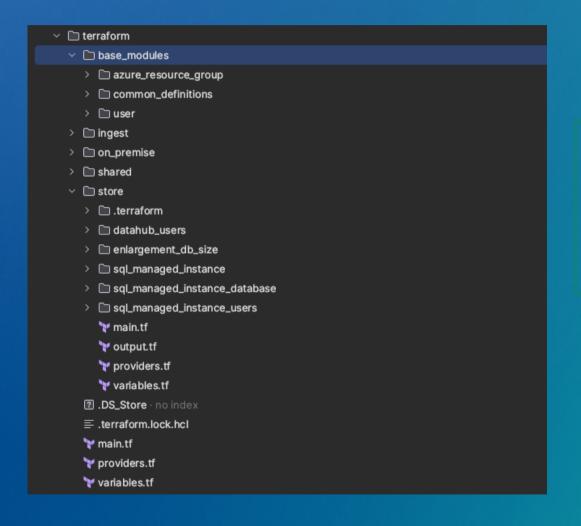
- terraform
  - > \bigsize base\_modules
  - > 🗀 Logical Group 1
  - > 🗀 Logical Group 2
  - > 🗀 Logical Group 3
  - > 🗀 Logical Group 4
    - ? .DS\_Store · no index
    - $\equiv$  .terraform.lock.hcl
    - main.tf
    - providers.tf
    - variables.tf

Terraform

## Real World Code

∨ □ terraform
∨ □ base_modules
> 🗀 azure_resource_group
> 🗀 common_definitions
> 🗀 user
> 🗀 ingest
> 🗀 on_premise
> 🗀 shared
> 🗀 store
② .DS_Store · no index
≣ .terraform.lock.hcl
🔭 main.tf
🔭 providers.tf
🚏 variables.tf

#### Terraform



Terraform

## **Practice**