

Using Data Sources and ARM Templates



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Overview



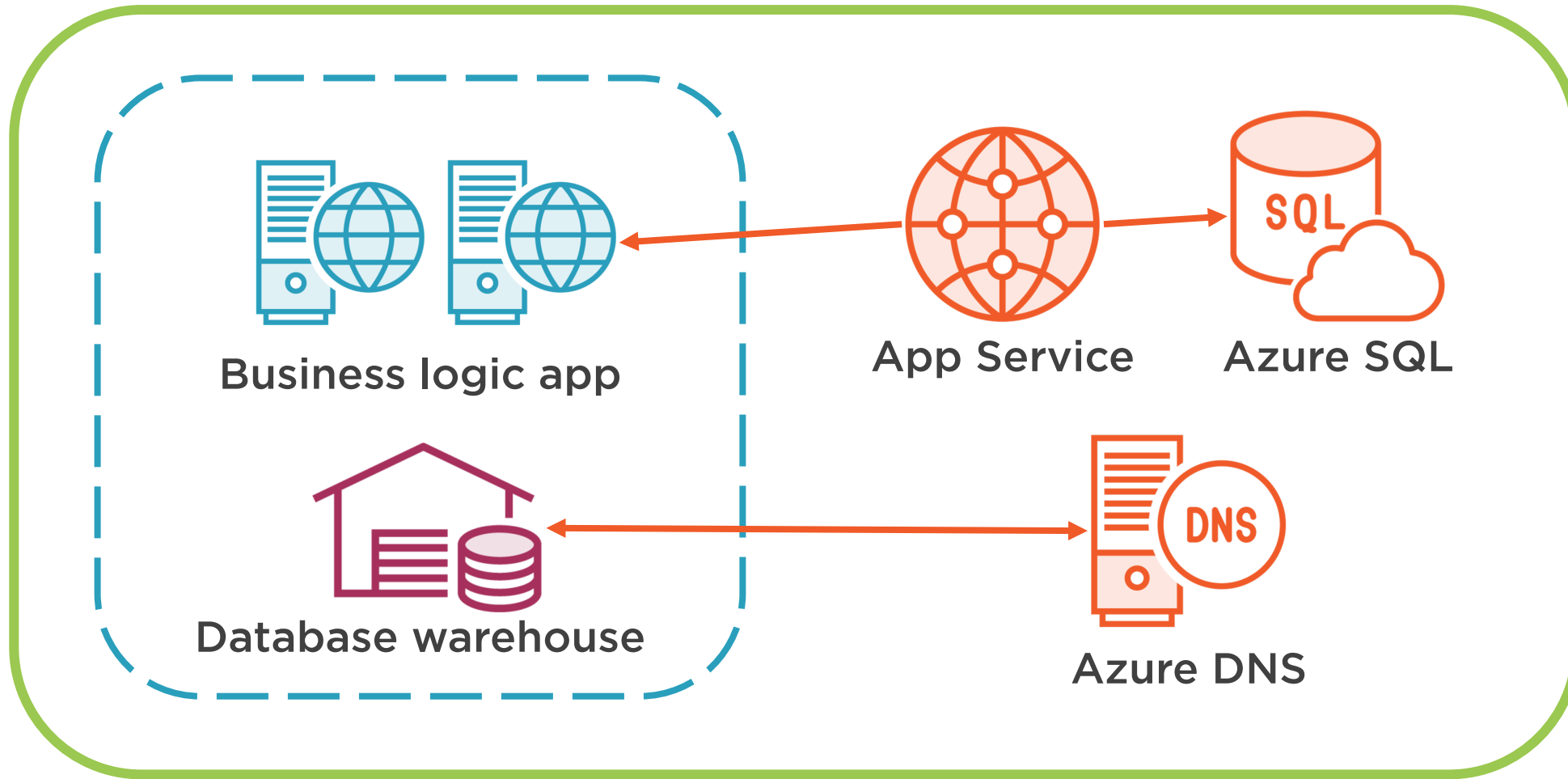
Layering configurations

Consuming data sources

ARM Templates



Layering Configurations



Using Data Sources in Azure

Subscriptions

Networks

Images

Key Vaults

Recovery Vaults



Data Source Examples

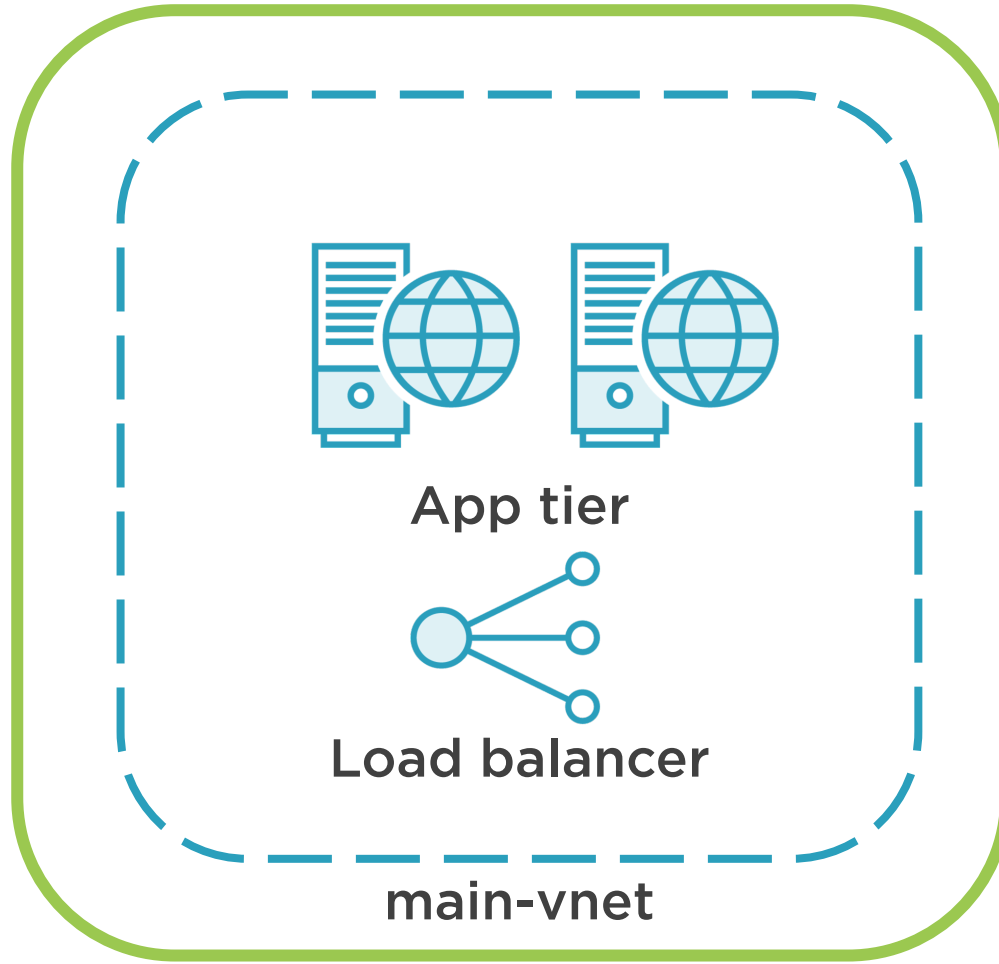
```
data "azurerm_subscriptions" "subs" {}
```

```
data "azurerm_key_vault" "vault" {  
  name = "my-vault"  
  resource_group_name = "my-rg"  
}
```

```
data "azurerm_virtual_network" "vnet" {  
  name = "my-vnet"  
  resource_group_name = "my-rg"  
}
```



Globomantics Application Deployment



App state



Network state



State as Data Source

```
data "terraform_remote_state" "networking" {  
  backend = "azurerm"  
  config = {  
    storage_account_name = var.sa_name  
    container_name       = var.ct_name  
    key                  = var.key_name  
    sas_token            = var.sas_token  
  }  
}
```



ARM Templates



Existing templates



Provider updates



Template resource

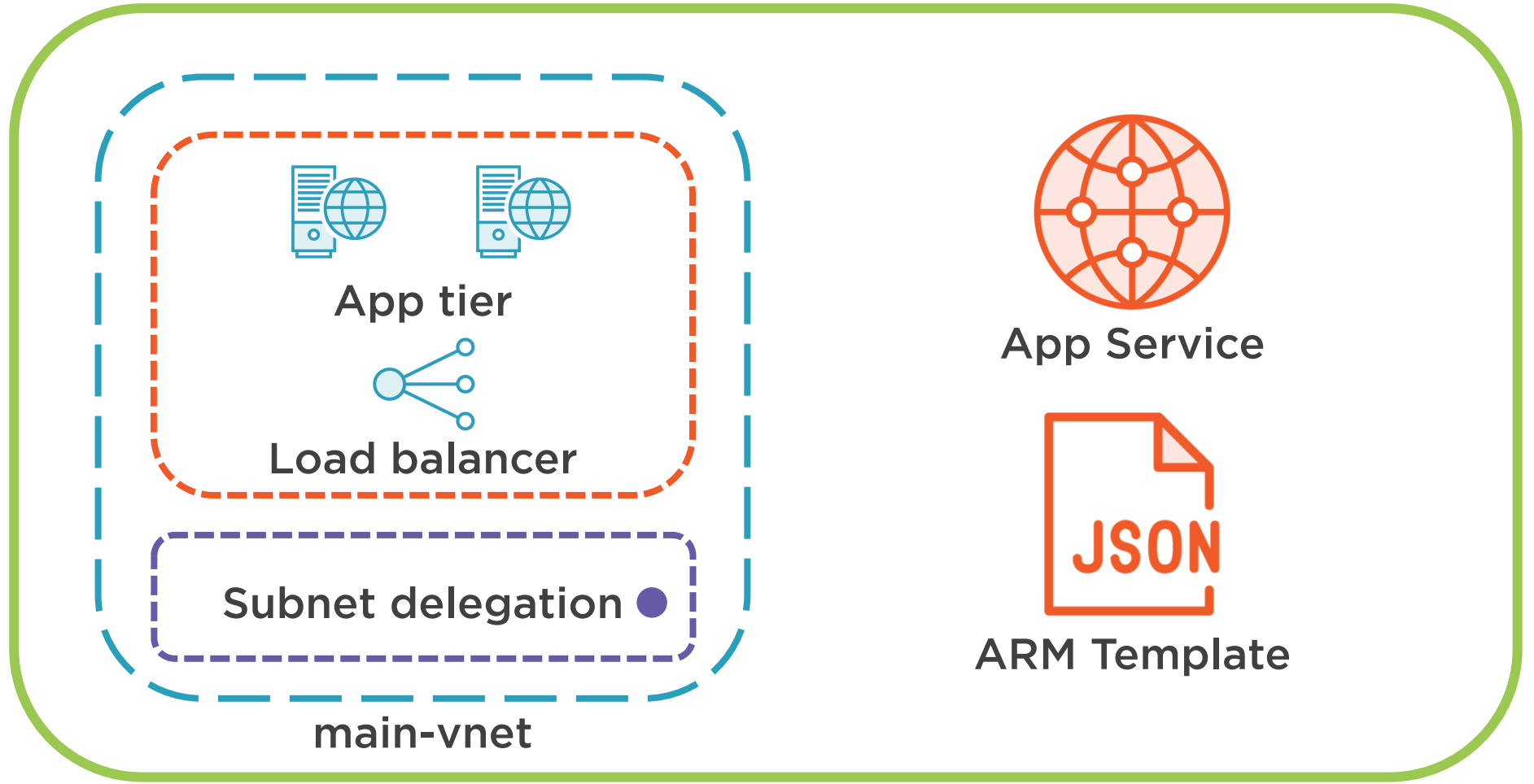


Template Deployment Resource

```
resource "azurerm_template_deployment" "template" {  
    name                        = "template-deploy"  
    resource_group_name = "my-rg"  
    template_body = file("azuredeploy.json")  
    parameters = {...}  
    deployment_mode = "Incremental"  
}
```



Globomantics Application Deployment



Summary



Consider architecture and dependencies

Keep configurations atomic

ARM Templates are an option



Course Summary



Multiple providers for Microsoft Azure

Many ways to authenticate

Store state remotely

Use source control and automate

What's Next?

- Experiment with other resources
- Get started with infrastructure testing

