

# Umbrellar Interactive IaC Assessment

Below are details of the Umbrellar IaC Assessment hosted on GitHub. This document mimics your basic Umbrellar design for delivering a customer's cloud environment. Please note the resource names have purposely been left out for this assessment.

Please note that each resource which needs to be referenced in other resources (IE Which VNET to use in a new subnet) will be the resource you have previously created.

For this assessment please build the environment below using 1 of the following IaC's.

- Terraform
- CLI
- ARM
- Ansible

Once completed please forward your code & your theory-based assessments to the hiring manager / recruiter.

Please note you do not need to deploy this infrastructure in Azure

## Design

Customer A would like to do a proof of concept for a new application called datafrog. A virtual machine in azure is needed to host the application. The Customer does not want this POC interfering with any other Dev environment resources and has requested network and resource separation. Please see the design below.

## Location

All resources for the subscription should be built in **Australia East** in **Zone 1** unless specified.

## Naming Convention

Table below details the naming convention of the resources used within this build.

**{Resource-location}-{ResourceType}-{environment}-{Platform/ServiceName/Function}**

## Resource type naming

Resource type	Resource type code
Resource group	rg
Azure Storage Account	st
Azure Key Vault	kv
Windows Virtual Machine	vmw
Linux Virtual Machine	vml
Managed Disk	MD
Public IP	pip
Network Security Group	nsg
Virtual Network Interface Card	int
Virtual Network	vnet
Subnet	snet
generic	gen

## Resource Group

The resource groups that need to be used/created below.

Resource group name	Resource group location
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	Australia East
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Azure Virtual Network

Virtual network name	Resource group	Virtual network CIDR range
		192.168.0.0/23

Azure Subnet

Subnet name	Virtual network	Subnet CIDR range
		192.168.0.0/26

Network Security Group

Network Security group name	Subnet name

Network Security Group rules

Direction	Priority	Name	Port	Protocol	Source	Destination	Action (Allow / Deny)
Inbound	1000			RDP	Any	Any	Allow
outbound	1000			RDP	Any	Any	Allow

Azure Network Interface

Network interface name	Resource group	Subnet	IP Address Public / Private	IP Allocation
			Private	Dynamic

Azure Windows Virtual machine

Windows Server Resource name	Resource Group	Windows server image	Network interface
		Windows server 2019 Datacentre	