# AZ-900 Capstone Project Guide

**Objective**

Simulate a small enterprise network using Microsoft Azure to reinforce AZ-900 concepts through hands-on deployment.

**Step 1: Create a Resource Group**

Name: DarkCap

Region: South Africa North

**Step 2: Deploy a Virtual Network (VNet)**

Name: DarkVNet

Address Space: 10.0.0.0/16

**Step 3: Add Subnets**

Subnet-Web: 10.0.1.0/24

Subnet-App: 10.0.2.0/24

**Step 4: Deploy Two Virtual Machines**

VM-Web:

  - OS: Windows Server 2022

  - Subnet: Subnet-Web

  - Size: B1s

  - Public IP: Yes

VM-App:

  - OS: Ubuntu 24.04

  - Subnet: Subnet-App

- Size: B1s

- Public IP: Yes

## Step 5: Configure NSGs

NSG: VM-Web-nsg

Inbound:

  - Allow RDP (3389)

  - Allow VNet traffic

Outbound:

  - Allow internet

  - Deny all others

## Step 6: Create a Storage Account

Name: darkstorageprod

Replication: LRS

Services: Blob + File

Soft delete enabled

## Step 7: Apply Governance Features

- Lock: CanNotDelete on RG

- Tags: Project=DarkEnterprise, Environment=Test

## Step 8: Azure Policy (Optional)

Assign policy to restrict region or enforce tagging.

Check Compliance under Azure Policy > Compliance

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**Step 9: Take Screenshots**

Capture:

- VNet and Subnets

- VM Summary Pages

- NSG Rules

- Storage Account

- Tags/Locks

- Policy Compliance

**Step 10: Documentation**

Create GitHub repo: az900-capstone-mini-network

Include README.md, screenshots folder, and summary PDF.

**Next Steps**

- Expand project: Load balancer, VPN Gateway

- Begin AZ-104 and apply governance and RBAC

- Convert project to a Fiverr or Gumroad product