

Azure Enterprise Network Design (Capstone Project)

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Date: July 9, 2025

1. Core Infrastructure (East US)

- VNET: CoreVNET-EastUS (10.0.0.0/16)
- Subnets:
 - WebSubnet (10.0.1.0/24)
 - AppSubnet (10.0.2.0/24)
- NSG Rules:
 - WebSubnet: Allow HTTP/HTTPS
 - AppSubnet: Internal only

2. Hub Network (West Europe)

- VNET: HubVNET-WestEurope (10.1.0.0/16)
- VPN Gateway
- Azure Firewall
- Route Table (for outbound through firewall)
- Azure Bastion

3. VNET Peering

- Core <-> Hub
- Gateway Transit: Enabled
- Forwarded Traffic: Allowed

4. Resource Group Structure

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- RG-CoreInfra
- RG-VMs
- RG-NetworkSecurity
- RG-Monitoring

5. Naming Conventions

- VNET: dark-vnet-[region]
- Subnet: subnet-[function]
- VM: vm-[region]-[role]-[number]
- NSG: nsg-[subnet]
- RG: rg-[function]

6. Use Cases

- Host web + app layers
- Hybrid cloud readiness
- Secure access + segmentation
- Centralized logging

7. Next Steps

- Deploy via PowerShell or ARM/Bicep
- Add Azure Monitor + Network Watcher
- Automate onboarding and infrastructure expansion