



FORTINET®



Public Cloud - 102

Securing Azure VNets using FortiGate NGFWs

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Course Goals

In this course you will learn how to deploy a FortiGate NGFW and secure an Azure virtual network (VNET) to meet the security requirements of Company ABC as they move server workloads to Azure. This course will start with understanding key services and terminology used in Azure when deploying public and private facing services in the public cloud. The course continues with the student deploying a FortiGate to secure the VNET and the hosted services.

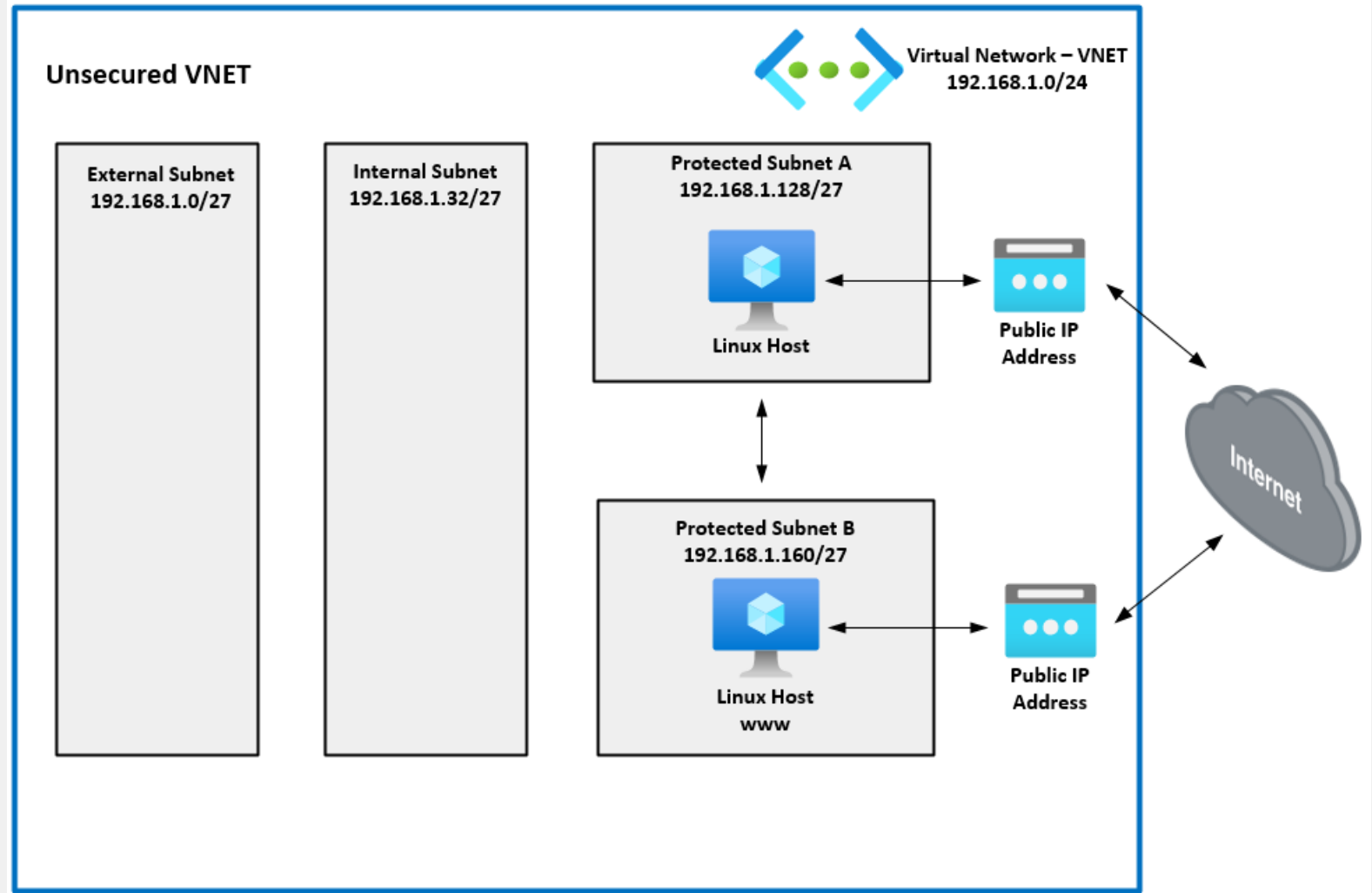
- Learn key Azure services and terms
- Deploy and configure a Virtual Network (VNET)
- Deploy server VMs in a VNET
- Deploy and configure a FortiGate network virtual appliance (NVA)
- Deploy a route table and create User Define Routes (UDR)
- Secure the VNET and hosted services utilizing FortiGate policies



Deployment Architectures – Unsecured VNET

Default VNET Deployment

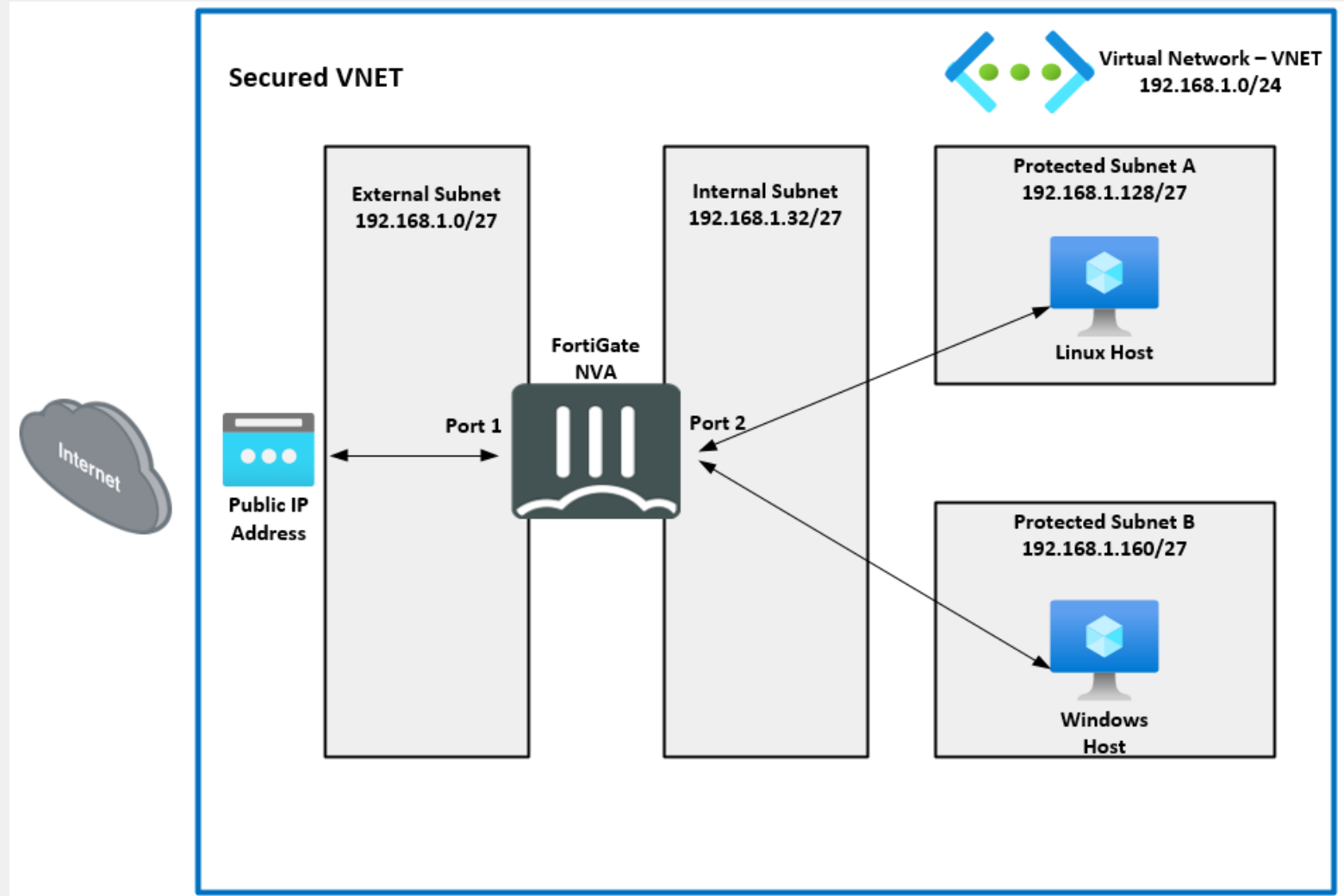
- Default traffic flow from VMs
- Direct access to other subnets
- Public IP Address ties directly to VMs
- Direct access to the Internet
- Direct access from the Internet
- Basic packet filter service on subnets or VM interface – (NSG)
- Increased cost to deploy and support multiple PIPs
- No UTM traffic management
- No traffic security logs



Deployment Architectures – Secured VNET

Secured VNET Deployment

- Managed traffic flow from VMs (UDRs)
- Managed access to other subnets
- Public IP Address tied to FortiGate NVA
- Managed access to/from the Internet
 - Firewall policies, VIPs, NAT, UTM profiles
- Additional services can also be deployed
 - IPSEC/SSL VPN, SD-WAN
- Cost savings:
 - PIPs, VPN service, Azure firewall
- Access to security logs
 - FAZ, SYSLOG, local
- FortiManager management





Fortinet Products in Azure Marketplace





Public Cloud – Fortinet Deployment Guides





Questions?



Course Lab – Getting Started



- Moderated via Zoom.
 - Check in every 30 min.
 - Lab available until 1:00PM PDT.
- Student username & password assignments
- Lab URL: <https://fortinetcloudcse.github.io/azure-102-foundational/>
- Review lab material & begin





Thank You