**Timeline**

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CPSC 253

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Day 1 - Day 2

Cloud Student Account Setup

* Created a student account with Azure
* Deployed a new Windows Server 2022 VM in Azure using Microsft Entra ID P2

Day 3 - Day 5

Before Migrating to Azure

* Check the security of three VMs
* Update Kali VM to patch any vulnerabilities (8 hours)
* Windows Server 2022 security check
  + Installed services like Active Directory Domain Services on the new Windows Server 2022
  + Reconfigured Group Policy
  + Account Policies configuration
    - Ensure a strong password rule with a minimum length and ensure it’s audit
    - Enabled password complexity
    - Ensure everything is audited and turned on success and failure
  + Enabled Windows update to patch any vulnerabilities
  + Firewall check
    - Ensure inbound and outbound rules are secured
  + Check Network List Manager Policies
  + Check Advanced Audit Policy Configuration
  + Ensure all system policies are audited

Day 6 - Day 7

* Enabled Network Security Group “Just-In-Time” on Azure cloud
* Ensuring the server can connect to Microsoft Entra ID
* Used Nessus to scan for vulnerabilities
* Ensuring the VM is responsive
* Ensuring no misconfiguration exists in the VM

Day 8 - Day 9

* Ensuring all patches, security settings, and configurations are in place