

CS 240W – Lab 2- Configuring

Name: _____

Part 1: Network Settings

1. Update your Virtual Machine Network to Bridge network.
 - o Verify that your Server and Host are on the same network.
 - o **NOTE: I am not able to use bridged mode. I don't know why it's not working. In fact, no other mode besides NAT works. I can complete question 5 so I'm assuming this is okay for now. In the future, I'll create another VM to use as a client.**
2. What is your server's IP address and Host IP address?

Ans: Server IP = 10.0.2.15/24

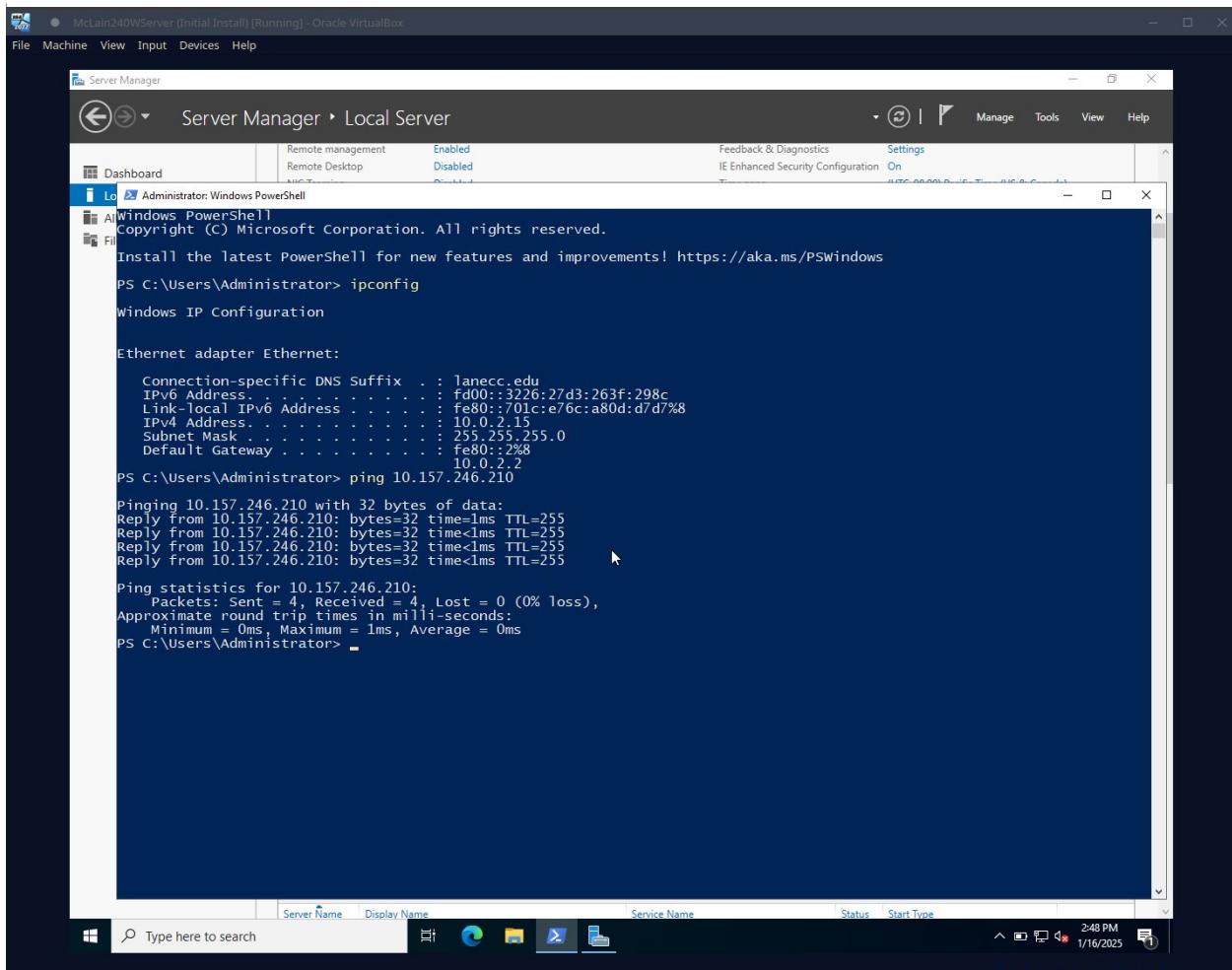
Host IP = 10.154.217.244/16

3. Explain how and why you would make your Server have a Static IP address.

Ans: Because you would need a specified location to access the services offered on the server

4. Enable ICMP messages for both Host and Server.
5. Ping from Server to Host. Take a screenshot.

Screenshot:



Part 2: Connect Your Server to Azure Arc

1. Set Up Azure Prerequisites:
 - o Log in to the Azure Portal (<https://portal.azure.com>).
 - o Navigate to Azure Arc and click Add a new machine.
 - o Download the onboarding script provided in the Generate script step.
2. Prepare the Server:
 - o Open Windows PowerShell as Administrator in your VM.
 - o Install the required agent by running:
 - o Open your server in Azure Arc and insert a screenshot of it.

Screenshot:

McLainServer

Machine - Azure Arc

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

- Connect
- Security
- Extensions
- Properties
- Locks

Operations

Licenses

Windows management

Monitoring

Automation

Help

Resource group (move) : CS240W

Status : Connected

Location (move) : West US 2

Subscription (move) : Azure for Students

Subscription ID : f5c3f918-8d24-4d64-9e9c-dbaa59c9262c

Agent version : 1.48.02881.1941

Computer name : McLainServer

FQDN : McLainServer

Operating system : Windows Server 2022 Standard

Operating system version : 10.0.20348.2966

Cloud provider : N/A

Manufacturer : innoteck GmbH

Model : VirtualBox

Arc gateway : Add Arc gateway

License type : Retail, Licensed

Azure benefits : Not activated

Tags (edit) : Add tags

Capabilities Recommendations Tutorials

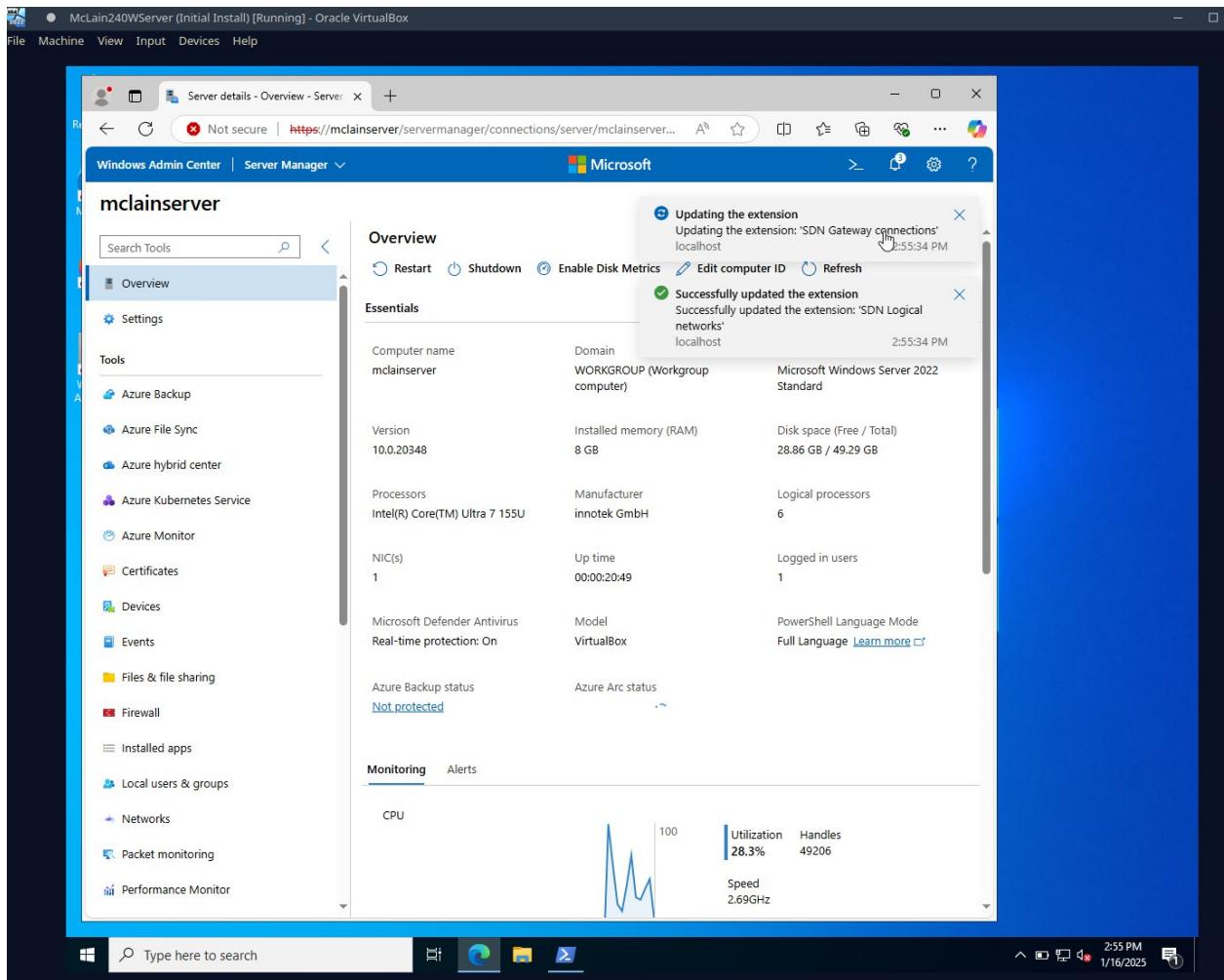
Updates Customize updates for your Arc-enabled server. Enable periodic assessment	Logs Enable additional monitoring capabilities.	Monitoring insights Enable additional monitoring capabilities. Not configured	Policies View compliance by assigning guest configuration policies to your machine. Not configured	Change tracking and inventory Enable consistent control and compliance of this machine with Change tracking and inventory. Not configured
Security Continuously monitor for potential security vulnerabilities and recommendations.	Windows Admin Center (preview) Manage your operating system from anywhere — without needing a VPN or other direct connection. Not configured	Azure Site Recovery configuration (preview) Replicate VMs to Azure to help keep your apps running during planned and unplanned outages. Not configured	SQL Server Configuration View the SQL Server instances hosted on this server and modify host level configurations.	

https://portal.azure.com/#/resource/subscriptions/f5c3f918-8d24-4d64-9e9c-dbaa59c9262c/resourceGroups/CS240W/providers/Microsoft.HybridCompute/machines/McLainServer/overview

Part 3: Install Windows Admin Center

1. Connect to the server through Windows Admin Center.
2. Monitor server performance using dashboards insert a screenshot of it.

Screenshot:



Part 4:

1. Research and describe the key features and primary use cases of each management tool.

Ans:

Azure management allows one to monitor multiple Windows or Linux servers in a web-based interface. It is useful for its web management interface, auto-management tools, and Microsoft Defender for Cloud

Windows Admin Center is also browser-based but can be locally based. It offers administration for single Windows Server deployments and provides 'modernized versions' of tools like Server Manager.

Part 5: Turn into Moodle (2 points)

Save the completed document as a PDF. Name it as Lab2_YourlastnameFirstInitial.pdf. Be sure to have your name on the top line in this document. Upload to Moodle.

