Azure IT Support Lab

Project Description

Hands-on Azure project simulating a basic IT support lab environment using VMs, networking, and file sharing.

Project Goals

- Practice core Azure services
- Understand VM deployment and networking
- Configure secure file sharing
- Test internal connectivity using ping and mapped drives

Technologies Used

- Microsoft Azure
- Windows Server 2022
- Windows 10 Pro
- PowerShell
- Remote Desktop (RDP)
- Shared Network Drive (SMB)

Lab Setup Overview

1. Azure Resources
   - Resource Group: Azure-IT-Lab
   - Virtual Network: IT-VNet (Subnet: 10.0.0.0/24)

2. Virtual Machines
   - ServerVM: Windows Server 2022, IP 10.0.0.4, RDP enabled
   - ClientVM: Windows 10 Pro, IP 10.0.0.5, RDP enabled

3. Network Configuration
   - Both VMs reside in the same subnet
   - Inbound security rule allows ICMP (ping)
   - Verified connectivity via PowerShell ping

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4. File Sharing Test

- Created folder: C:\SharedFiles\content
- Shared with Everyone (read/write)
- Files Created:
  * testnote.txt
  * githublab.txt

PowerShell Scripting

PowerShell Script Used:

```
Set-Content -Path "C:\SharedFiles\testnote.txt" -Value "This is a test note created from PowerShell."

Set-Content -Path "C:\SharedFiles\githublab.txt" -Value "Arsenal FC."
```

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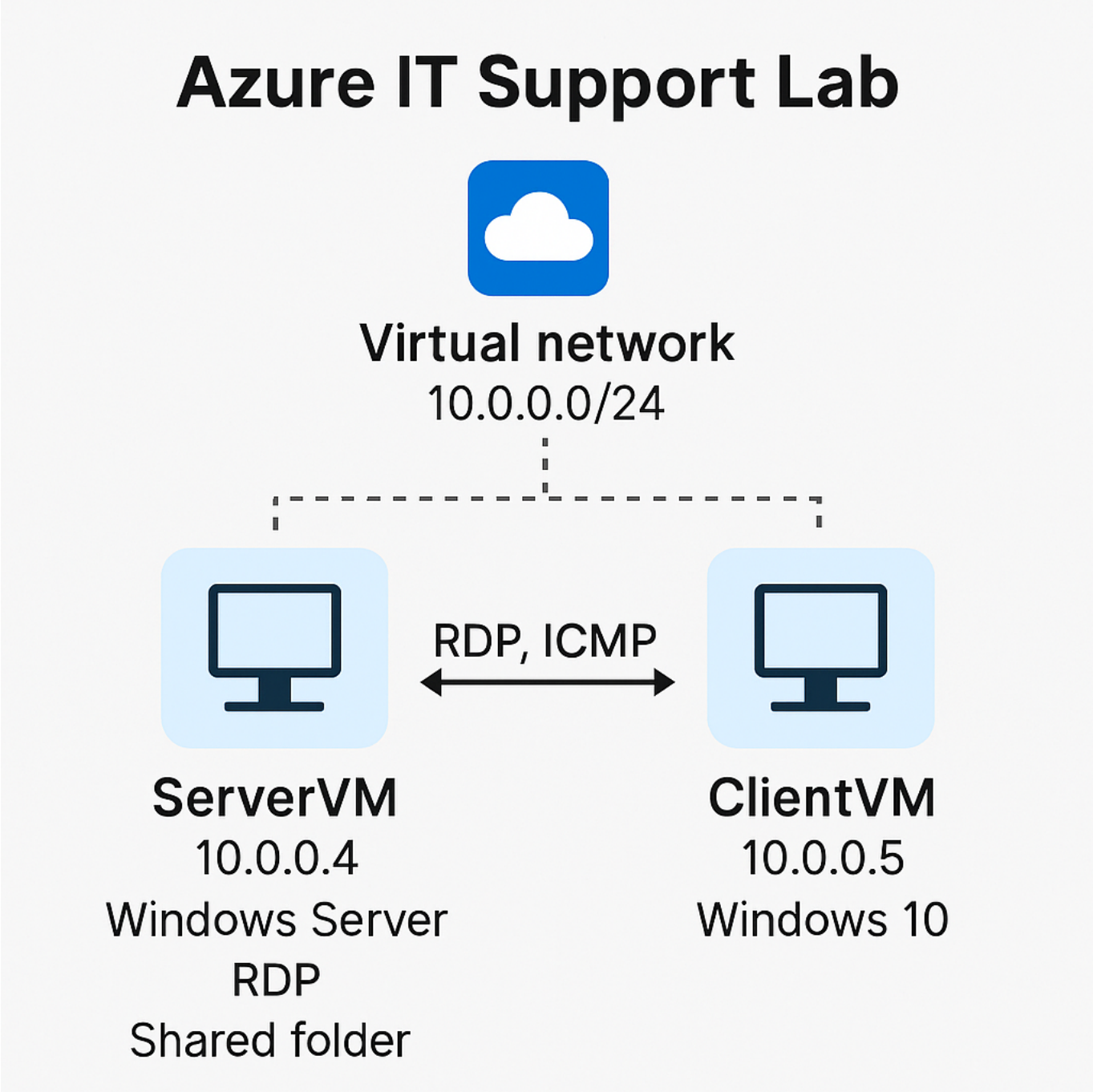
Architecture Diagram



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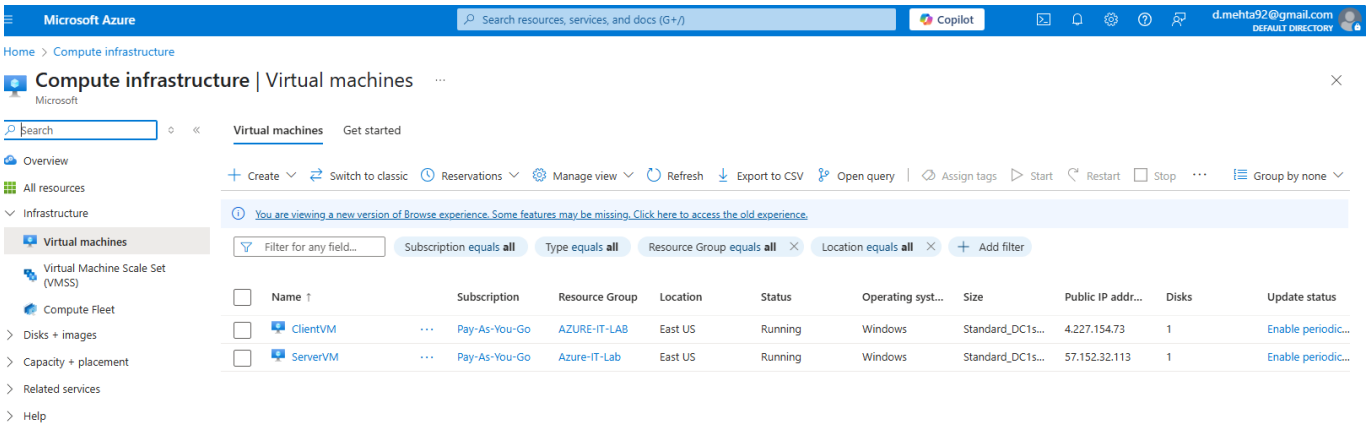
VMs Running



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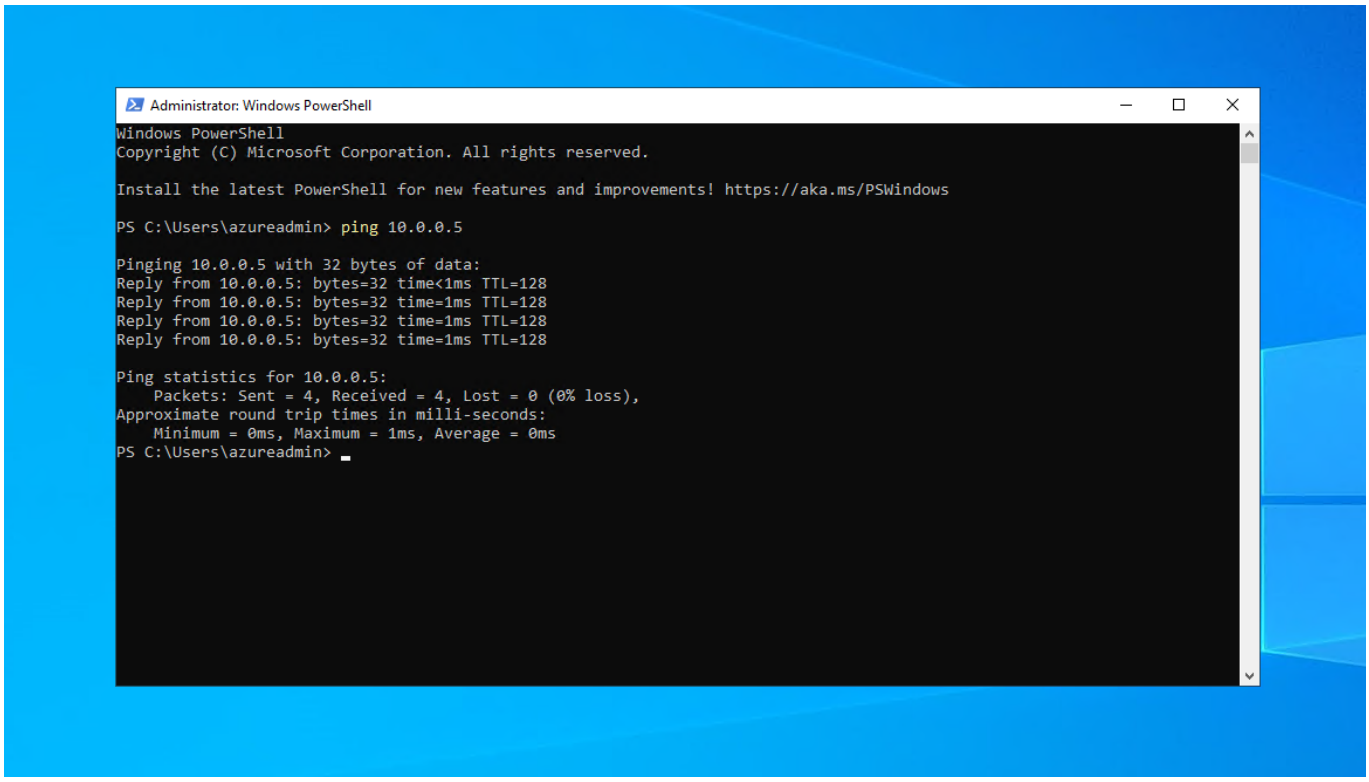
Successful Ping from ServerVM



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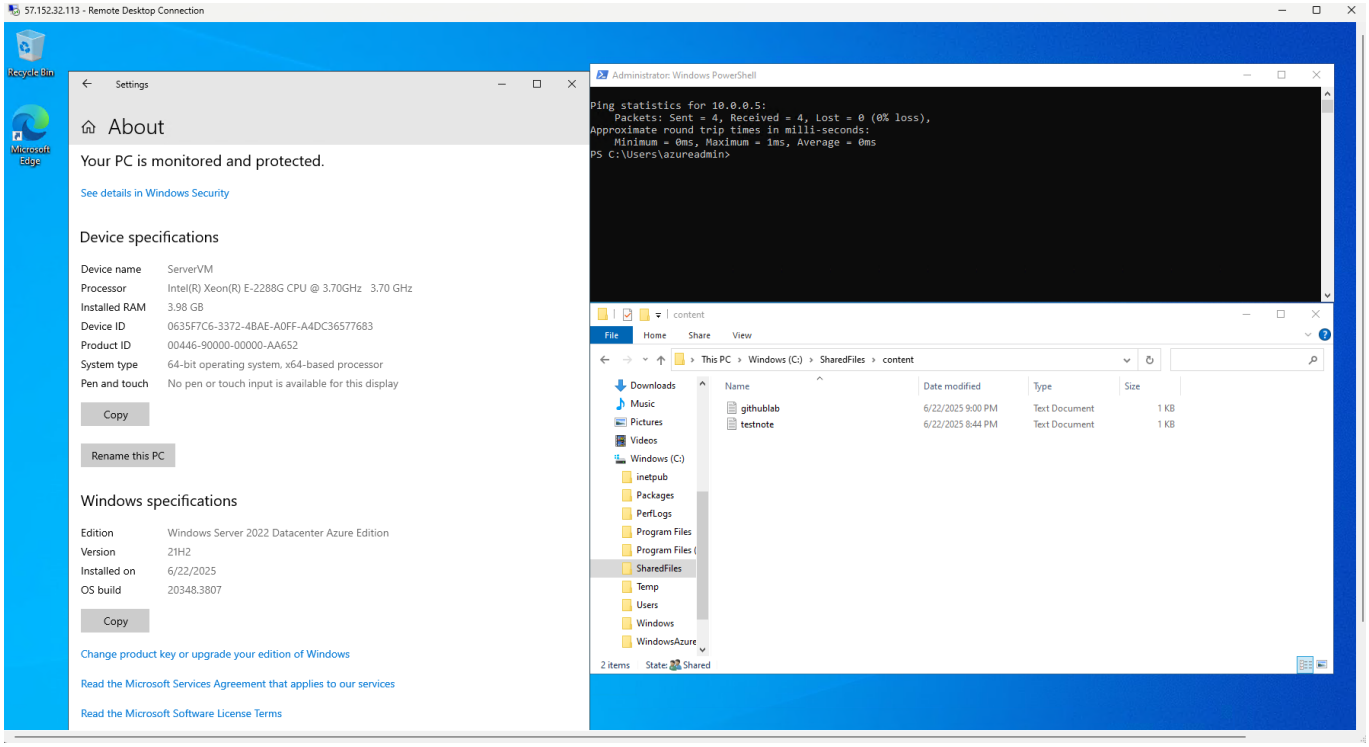
ServerVM: Ping + Shared Folder



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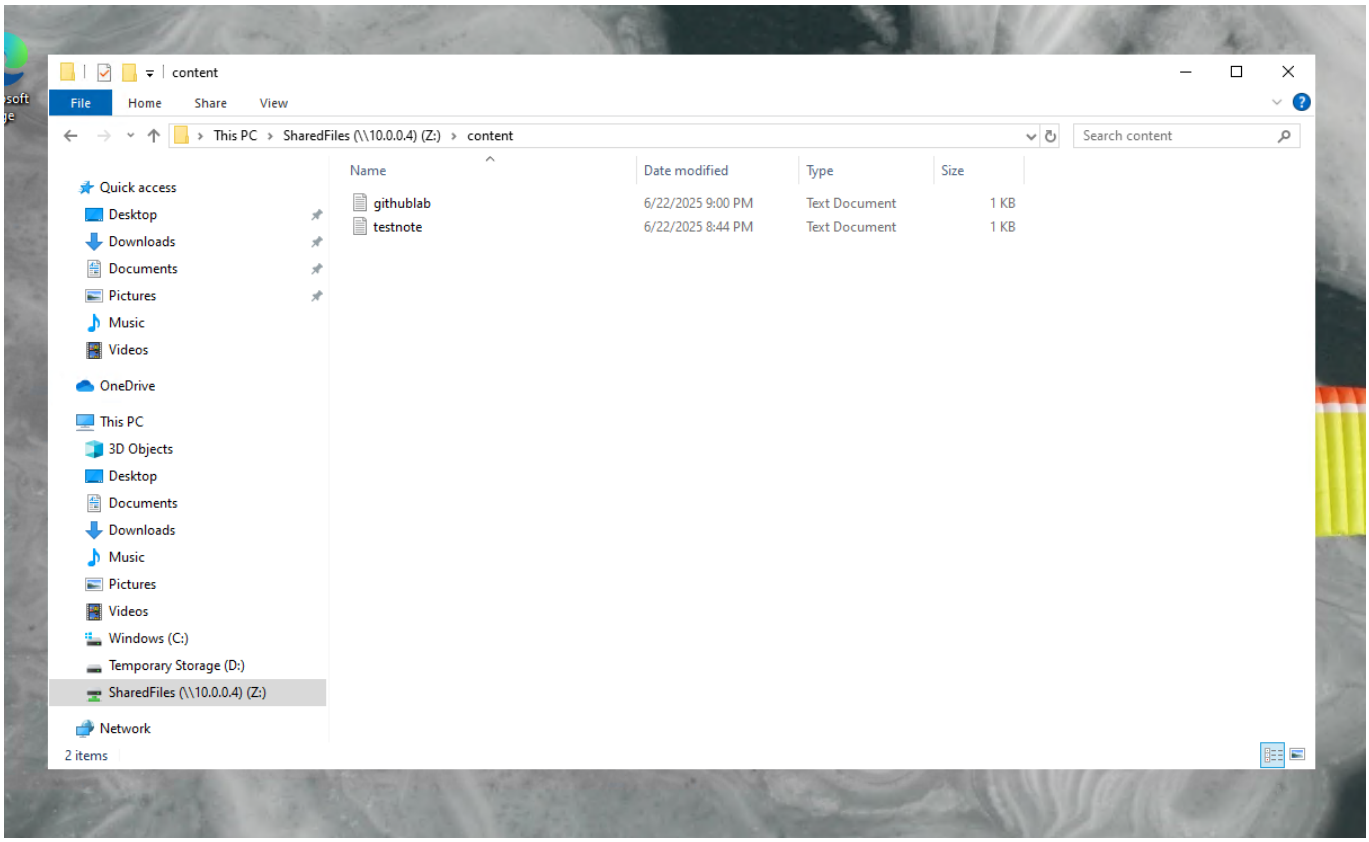
ClientVM: Mapped Z Drive



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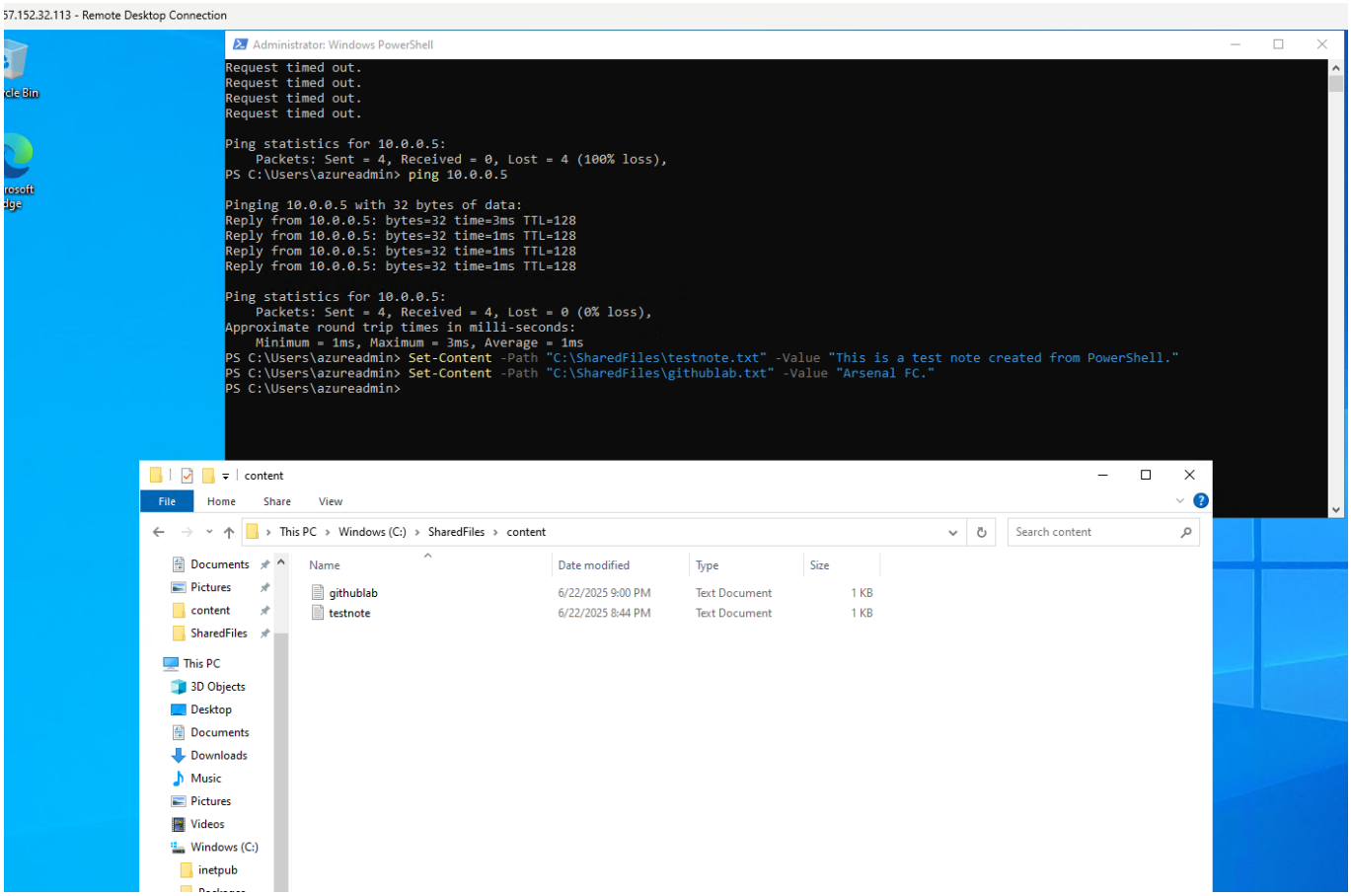
PowerShell Scripted File Creation