

Project Summary

Title: ADDS Domain Lab Project using VMware & Windows Server 2022

Author: Soumyadeep Karmakar





Repository: [GitHub Repository Link](#)

Tools & Technologies Used

- VMware Workstation Pro
 - Windows Server 2022 (for PDC and ADC)
 - Windows 10/11 Pro (Client Machine)
 - Virtual LAN and Virtual Switch
 - Manual IP Configuration
 - Active Directory Domain Services (ADDS)
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Project Overview

This project simulates a real-world enterprise network setup using virtualization. The environment includes:

-  **Server 1:** Primary Domain Controller (PDC)
 -  **Server 2:** Additional Domain Controller (ADC)
 -  **Client PC** joined to the created domain
 -  All machines connected in a Virtual LAN via a virtual switch
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Key Features

- Configured **Active Directory** and created domain tcs.com
 - Manually assigned IPs to all machines
 - Configured **Windows Firewall** rules for connectivity
 - Created and managed **users**, applied **group policies**
 - Verified communication with **ping & file sharing**
 - Implemented **redundancy** with ADC takeover when PDC is down
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Included Files

- Network Diagrams
- Screenshots
- Configuration Notes
- README.md
- Demo Video (linked externally)

Skills Demonstrated

- Domain Management
- Server Configuration
- Virtual Networking
- User/Group Administration
- IP Addressing and Connectivity Troubleshooting

Additional Resources

- [LinkedIn Video Post](#)
- [GitHub Repository](#)

 ***Project complete and tested successfully in VMware Workstation Pro.***