

SCCM Lab Full Setup Guide

This lab setup guide explains building a System Center Configuration Manager (SCCM) lab integrated with Azure AD, hosted on VMware vSphere and a personal server with Xeon processor and 128GB RAM.

Virtual Machines (VMs) and IP Addresses:

- SCCM Server (Lab-CM01): 192.168.81.133
- Domain Controller (Lab-DC01): 192.168.81.30
- Distribution Point (Lab-GW01): 192.168.81.60
- Windows 11 Client (WINCL01): 192.168.81.50

Major Setup Steps:

1. Installed Windows Server 2022 and Windows 11 VMs.
2. Promoted Lab-DC01 to Domain Controller and configured DNS.
3. Installed SQL Server and SCCM on Lab-CM01.
4. Configured Distribution Point on Lab-GW01.
5. Deployed SCCM Client to WINCL01.
6. Integrated on-premises Active Directory with Azure AD via Microsoft Entra Connect.
7. Enabled Co-Management between SCCM and Intune.

Key Troubleshooting Points:

- Fixed WMI service and firewall issues during client push.
- Corrected DNS settings for domain join and SCCM site communication.
- Provided proper permissions for Azure AD Connect.

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- Solved SCCM client push errors using administrative share access and firewall configuration.

Final Results:

- SCCM Lab successfully integrated on-premises and cloud (Azure).
- Full configuration screenshots and troubleshooting records maintained.

GitHub Markdown Upload Instructions:

- Create a new GitHub repository.
- Upload the Markdown file as `README.md`.
- Push your files and commit changes.