

Integrating Samba with Microsoft Active Directory

LPIC-2: Linux Engineer (202-450)

Objectives:

At the end of this episode, I will be able to:

1. Describe the advantages of integrating a Linux server with the Microsoft Active Directory.
2. Join a Linux server to a MS AD domain and configure Samba to use AD authentication.

Additional resources used during the episode can be obtained using the download link on the overview episode.

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- Integrating Samba with Microsoft Active Directory
 - Joining a Linux server to an Active Directory
 - Configuring Samba to use AD Authentication
 - Configuring a User Map
 - Why use Microsoft Active Directory?
 - Common enterprise user directory
 - Broad commercial support
 - Tight MS Windows client integration
 - Advanced features
 - Group policy objects
 - Logon scripts
 - Dynamic group management
 - Linux integrates using SSSD
 - System Security Services Daemon
 - Allows a Linux server to join an AD domain
 - <https://ubuntu.com/server/docs/service-sssd>
 - Replaces the older *winbindd*
 - Preparing to join a domain
 - Add DC to hosts file
 - `sudoedit /etc/hosts`
 - `10.222.0.52 windc01 windc01.lab.itpro.tv`
 - Install basic tools
 - `sudo apt install sssd-ad sssd-tools realmd adcli`
 - Test connection and identify missing packages
 - `sudo realm -v discover lab.itpro.tv`
 - Packages should already be installed
 - Joining a Linux server to an Active Directory
 - Join the domain
 - `sudo realm join -U administrator@LAB.ITPRO.TV lab.itpro.tv`
 - Registers the Linux server as a "Member Server" in the AD
 - Allows user authentication lookups
 - Allows expanding group membership
 - Configuring Samba to use AD Authentication
 - Enable AD authentication in Samba
 - `sudoedit /etc/samba/smb.conf`
 - `[global]`
 - `security = ADS`

- Configuring a User Map

- Windows user names can have spaces in them
- Typically only an issue in Workgroups, but can affect domains as well
- User maps allow us to correct that
- Configuring a username map

- `sudoedit /etc/samba/smb.conf`

- `username map = /etc/samba/username.map`

- `sudoedit /etc/samba/username.map`

- `jdoe = johndoe`

- `dpezet = "Don Pezet"`