

Active Directory Setup

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Objectives

- Configure Windows Server 2022 using a hypervisor (i.e VmWare or VirtualBox)
- Install Active Directory via Server Manager
- Install OUs (Organizational Units)
- Add Groups
- Add Users

Hardware Requirements

1. At least 4GB of RAM
2. A decent processor (i.e Intel 7)
3. Allocate at least 20GB of storage

****If you are on a Mac M1-M3 (aka ARM) GOOD LUCK!****

What Is Active Directory?

A Microsoft directory service for organizations to manage permissions and access to network resources.

- Also stores information about objects on the network (objects are single elements such as user, printer, application, etc.)
- Can be used for authentication (i.e to see if a user or printer has been added into the directory previously or not)

Group Scope

1. **Domain Local:** Used to assign permissions (user rights) to Windows Systems
2. **Global:** For assigning access to multiple resources that spans multiple domains
3. **Universal:** To manage global groups and users from multiple domains within a single forest

Group Type

1. **Security:** Used to assign permissions to resources (i.e printers and file shares). Allows admins to manage permissions of multiple objects at once instead of one at a time
2. **Distribution:** Used to send emails/notifications to groups (i.e email to HR department or email to everyone at the Seattle office)