

CS 4400 System Administration

Project 7A and 7B: Set up active directory domain controller and roaming profiles

Note: Active Directory authentication(7A) is worth 2 points. Roaming profiles (7B) requires active directory authentication to work and is worth 1 point.

Project Information for Active Directory Authentication (7A):

Activity Points	2
Due Date	Monday of Week 13

Project Information for Roaming Profiles (7B):

Activity Points	1
Due Date	Monday of Week 14

Description:

Our company has numerous employees ("There are at least two of us!") and computers that these employees can use (2 internal desktop machines). We don't want to have to add or delete accounts on each individual machine each time an employee is hired or fired. We'd also like an employee to have access to a set of personal files regardless of which computer they are using, exactly like our computer labs at UNI.

Since all of the managed machines in our network are using Windows, your task is to set up a windows active directory domain controller to handle user management and shared files. You must use Windows Server for this. Each user on a windows workstation, when they log in, should authenticate using your domain controller (+2 points) and use a roaming profile (+1 point).

For now, you can create two user accounts. These users should only have access to their own files in My Documents and their Desktop, and they should not be able to edit any files or settings for the entire computer/network. They should be able to log on to either workstation and have the same experience.

The documentation should have:

- A summary of the steps you took to configure active directory
- Any configuration files you edited (screen shots are good here)
- The usernames and passwords for your two users (project 7A)

Resources:

- Since this is a "Windows thing", the textbook doesn't help us much. Here are a few tutorials to get you started. Note that you only have to get the very basics working here – setting policies up can happen in a different project.

- <https://blog.netwrix.com/2017/04/20/tutorial-learn-the-basics-of-active-directory/>
- <https://www.netadmintools.com/active-directory-setup-guide/>
- Roaming profiles: <https://learn.microsoft.com/en-us/windows-server/storage/folder-redirection/folder-redirection-rup-overview>

Note: Beware Windows firewall troubles! If your workstations can't "see" the domain controller, check your firewall(s) first before diving deep into the active directory help forums! If your firewall is indeed causing problems, don't just leave it turned "off" – make sure things are actually fixed.