

## Lab: Configuring and Managing Network Access Settings in Windows

### Objective:

By the end of this lab, you will be able to:

1. Configure network profiles in Windows.
2. Adjust sharing permissions.
3. Manage NTFS permissions.
4. Test network access on shared resources.

### Prerequisites:

- A Windows system (can be virtual or physical) with administrator privileges.
- At least two user accounts on the system, including one with administrative rights.
- A basic understanding of Windows file systems and permissions.

### Part 1: Setting Up Network Profiles

1. Open Network Settings:
  - Press Windows Key + I to open Settings.
  - Go to Network & Internet > Status.
2. Select Network Profile:
  - Under Network status, locate the network you're connected to and click Properties.
  - Choose a network profile:
    - Public: Use this profile when connected to a network in a public place (e.g., coffee shop).
    - Private: Use this profile when connected to a trusted network (e.g., home or office network).
  - Select Private for this exercise.

### Part 2: Adjusting Sharing Permissions

1. Enable File and Printer Sharing:
  - Go to Control Panel > Network and Sharing Center > Advanced sharing settings.
  - Under Private (current profile), enable Turn on file and printer sharing.
  - Click Save changes.
2. Share a Folder:
  - Create a folder named NetworkLab on your desktop.

- Right-click the folder and select Properties.
- Go to the Sharing tab, and click Advanced Sharing....
- Check Share this folder and set the share name to NetworkLabShare.
- Click Permissions, add a user or group (e.g., Everyone), and set the desired permissions (e.g., Read or Read/Write).

### 3. Configure Sharing Permissions:

- For testing, give the Everyone group Read permissions only.
- Click OK and Close.

## Part 3: Managing NTFS Permissions

### 1. Adjust NTFS Permissions:

- Go back to the Properties of the NetworkLab folder.
- Navigate to the Security tab.
- Click Edit to adjust permissions for different users.
- Set Read permissions for the Guest account and Full Control permissions for the Administrators group.
- Click Apply and OK.

### 2. Add a Specific User:

- Click Edit > Add and enter the username of the specific user you want to give access to.
- Grant Modify permissions to this user.
- Click Apply and OK.

## Part 4: Testing Network Access

### 1. Access the Shared Folder from Another User Account:

- Log in as a different user account on the same computer or access the shared folder from another device on the network.
- Press Windows Key + R, type \\YourComputerName\NetworkLabShare, and press Enter.

### 2. Verify Access Permissions:

- Try to open and read files in the shared folder.
- Attempt to create a file or modify an existing one to confirm Read and Write permissions.
- Test access based on the NTFS permissions set earlier and verify they match your expectations.

### 3. Document Findings:

- Record which permissions allowed access to specific actions and note any permission errors encountered.
- Observe and document the difference between network sharing permissions and NTFS

permissions.

### **Additional Challenge:**

1. Change the network profile to Public and observe how it affects access to the shared folder.
2. Add a network firewall rule to restrict access to the shared folder and test access again.

### **Lab Wrap-Up:**

In this lab, you've configured network profiles, adjusted sharing and NTFS permissions, and tested network access to shared resources on a Windows system. Document any issues or unexpected results, as this will help with troubleshooting in real-world scenarios.