

## Windows 11 Local Security Policy Lab

### Lab Objectives

- Access and navigate Local Security Policy.
- Configure password policies.
- Set account lockout policies.
- Configure audit policies.
- Assign user rights.
- Configure security options.

### Lab Prerequisites

- A Windows 11 machine with administrator access.
- Basic familiarity with Windows 11 settings.

### Exercise 1: Accessing Local Security Policy

1. Open Local Security Policy:

- Press Win + R, type secpol.msc, and press Enter.
- The Local Security Policy window should open.

2. Explore the Local Security Policy categories:

- Click through each of the sections on the left panel to familiarize yourself with categories such as Account Policies, Local Policies, Event Log, and Public Key Policies.

- Questions:
  - - What sections are available in the Local Security Policy window?
  - - Why is it important to control local security policies on a Windows system?

### Exercise 2: Configure Password Policies

1. In the Local Security Policy window, go to Account Policies > Password Policy.

2. Configure the following settings:

- Minimum password length: Set it to 8 characters.
- Password must meet complexity requirements: Enable this option.
- Enforce password history: Set it to remember the last 5 passwords.

3. Apply and save the changes.

- Questions:

- - What does enabling password complexity require users to include in their passwords?
- - Why is setting a minimum password length beneficial?

### Exercise 3: Set Account Lockout Policies

1. Navigate to Account Policies > Account Lockout Policy.
2. Configure the following settings:
  - Account lockout threshold: Set to 3 invalid login attempts.
  - Account lockout duration: Set to 30 minutes.
  - Reset account lockout counter after: Set to 30 minutes.

3. Save and close the settings.

- Questions:
  - - What is the purpose of an account lockout policy?
  - - How might a strict account lockout policy affect user experience and security?

### Exercise 4: Configure Audit Policies

1. In the Local Policies section, click on Audit Policy.
2. Enable auditing for the following:
  - Audit logon events: Set to Success, Failure.
  - Audit account management: Set to Success, Failure.
  - Audit policy change: Set to Success, Failure.

3. Apply the settings and close the window.

- Questions:
  - - Why would you want to audit logon events and account management?
  - - Where can you view the audit logs after they are generated?

### Exercise 5: Assign User Rights

1. In the Local Policies section, go to User Rights Assignment.
2. Find and configure the following rights:
  - Deny log on locally: Add a test user account to this policy to prevent them from logging in.
  - Allow log on through Remote Desktop Services: Add a specific user or group who should be allowed remote access.

3. Save and apply the changes.

- Questions:
  - - Why is it useful to control logon rights for specific users or groups?
  - - What could be the security implications of allowing too many users remote access?

### Exercise 6: Configure Security Options

1. Go to Local Policies > Security Options.
2. Find and configure the following:
  - Accounts: Limit local account use of blank passwords to console logon only: Set this to Enabled.
  - Interactive logon: Do not display last user name: Set this to Enabled.
  - Network security: LAN Manager authentication level: Set to Send NTLMv2 response only. Refuse LM & NTLM.

3. Apply and save the settings.

- Questions:
  - - Why is it advisable to disable displaying the last logged-in username?
  - - What benefits does limiting the use of blank passwords provide?

### Exercise 7: Review and Test the Policy Changes

1. Restart your computer for the changes to take effect fully.
2. Test each configured policy by attempting the following:
  - Log in with an incorrect password multiple times to test the account lockout.
  - Attempt to log in with the test user account assigned to “Deny log on locally” to confirm it’s working.
  - Check the Event Viewer under Security logs to view the auditing logs for logon events and policy changes.

- Questions:
  - - Were the configurations effective based on your tests?
  - - How can you use these settings to balance security with usability?

### Conclusion

You have now configured and tested key elements of the Windows 11 Local Security Policy. Understanding these policies can help improve security on individual devices or across a network.