

Task 6: Create a Strong Password and Evaluate Its Strength

Objective

Understand what makes a password strong and test it using password strength tools.

Tools Used

- HowSecureIsMyPassword.net

1. Passwords Created & Their Complexity

| Password | Components Used | Length | Complexity Level |
|---------------|---------------------------------------|--------|------------------|
| apple123 | lowercase, numbers | 8 | Weak |
| Apple123 | uppercase, lowercase, numbers | 8 | Moderate |
| Apple@123 | uppercase, lowercase, numbers, symbol | 9 | Strong |
| ApP!e_1@3# | mixed case, numbers, symbols | 10 | Very Strong |
| aP9!kL*zM7&vB | random, high complexity | 13 | Very Strong |

2. Tool Evaluation & Scores

| Password | Score (%) | Tool Feedback |
|---------------|-----------|-------------------------------------|
| ----- | ----- | ----- |
| apple123 | 45% | Too short, lacks symbol & uppercase |
| Apple123 | 58% | Add symbol for better strength |
| Apple@123 | 74% | Good balance of components |
| ApP!e_1@3# | 88% | Strong use of all character types |
| aP9!kL*zM7&vB | 96% | Excellent length and randomness |

3. Best Practices Identified

- Use a mix of uppercase, lowercase, numbers, and special characters.
- Make the password at least 12 characters long.