

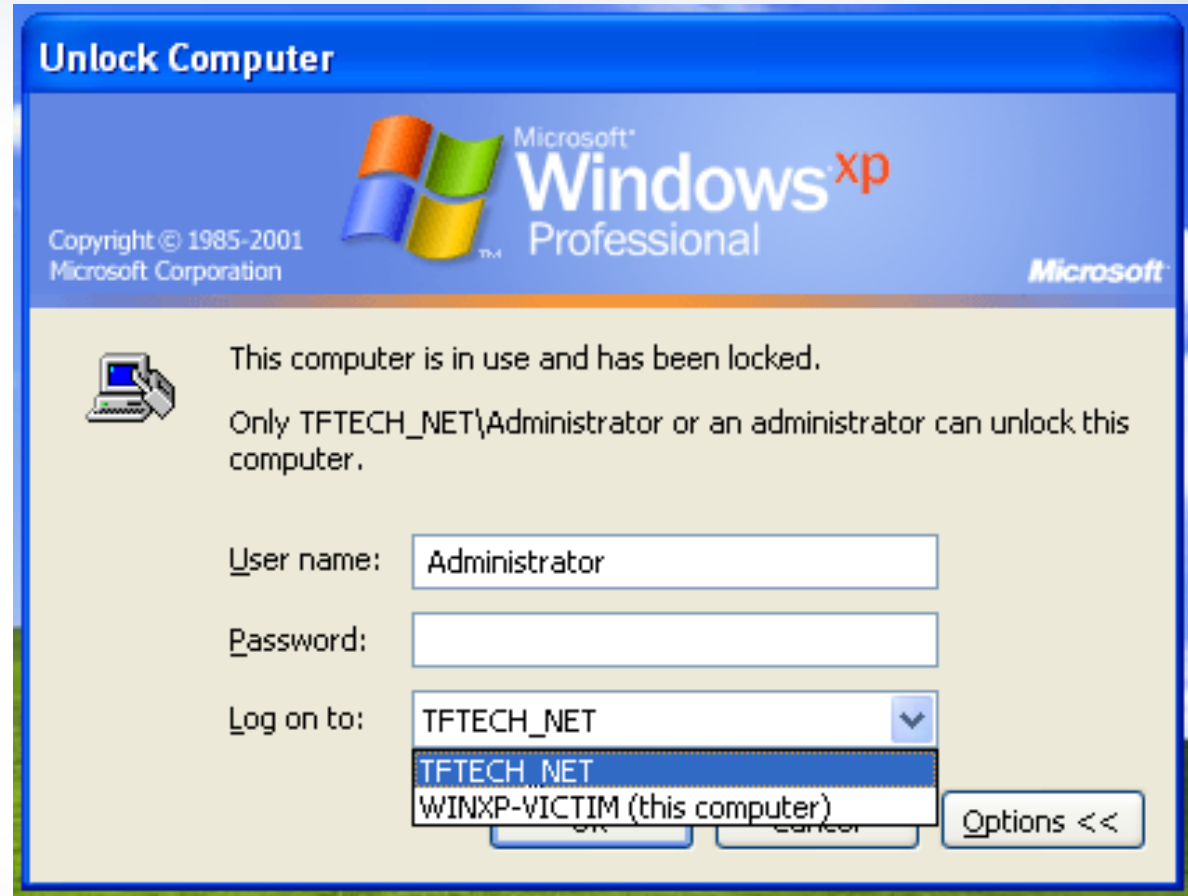
# COURSE: SECURITY+ SY0-401

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## MODULE 5: ACCESS CONTROL AND IDENTITY MANAGEMENT

- Explain the importance of application security controls and techniques
- Compare and contrast the function and purpose of authentication services
- Given a scenario, select the appropriate authentication, authorization or access control
- Install and configure security controls when performing account management, based on best practices

- RADIUS
- TACACS+
- Kerberos
- LDAP
- XTACACS
- SAML
- Secure LDAP



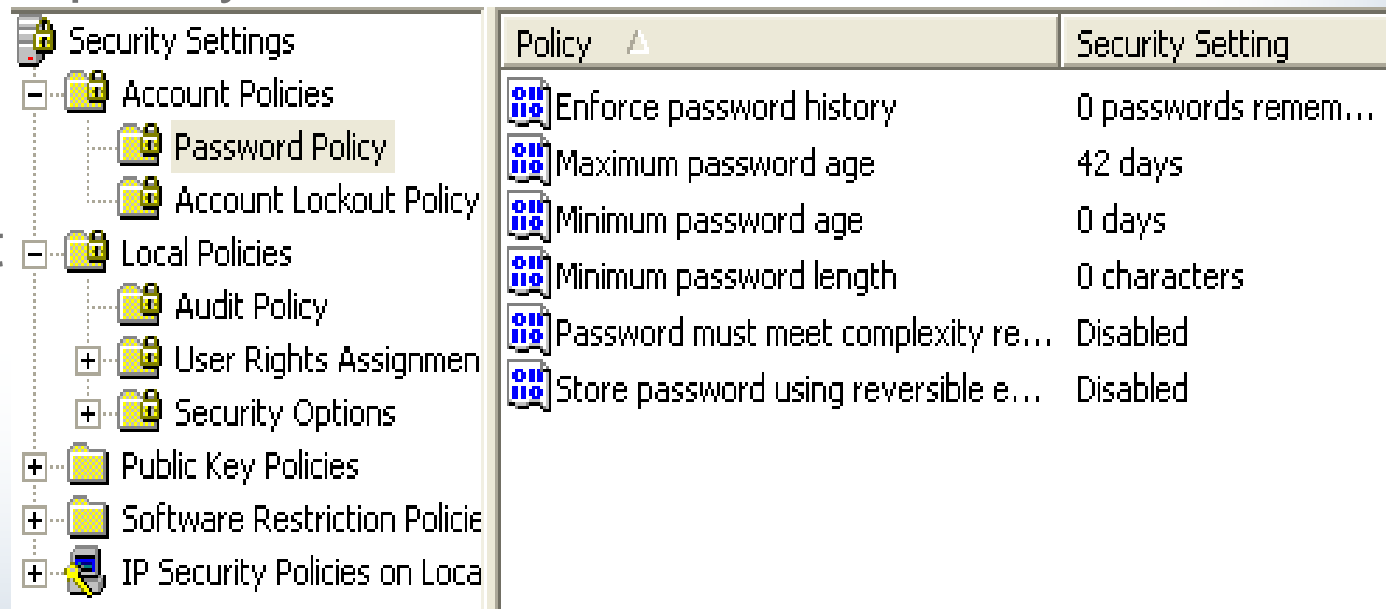
- Identification vs. authentication vs. authorization
- Authorization
  - Least privilege
  - Separation of duties
  - ACLs
  - Mandatory access
  - Discretionary access
  - Rule-based access control
  - Role-based access control
  - Time of day restrictions

- Authentication
  - Tokens
  - Common access card
  - Smart card
  - Multifactor authentication
  - TOTP
  - HOTP
  - CHAP
  - PAP
  - Single sign-on
  - Access control
  - Implicit deny
  - Trusted OS

- Authentication factors
  - Something you are
  - Something you have
  - Something you know
  - Somewhere you are
  - Something you do
- Identification
  - Biometrics
  - Personal identification verification card
  - Username
- Federation
- Transitive trust/authentication



- Mitigate issues associated with users with multiple account/roles and/or shared accounts
- Account policy enforcement
  - Credential management
  - Group policy
  - Password complexity
- Expiration
- Recovery
- Disablement
- Lockout



The screenshot displays the Windows Security Settings interface. On the left, a tree view shows 'Security Settings' expanded to 'Account Policies', with 'Password Policy' selected. On the right, a table lists various security settings and their current values.

Policy	Security Setting
Enforce password history	0 passwords remem...
Maximum password age	42 days
Minimum password age	0 days
Minimum password length	0 characters
Password must meet complexity re...	Disabled
Store password using reversible e...	Disabled

## Account policy enforcement

- Password history
- Password reuse
- Password length
- Generic account prohibition
- Group based privileges
- User assigned privileges
- User access reviews
- Continuous monitoring





# THANK YOU

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