## Indian Institute of Information Technology Surat

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# Lab Report on

# Network Security (CS 702) Practical

**Submitted by**

### [RAHUL KUMAR SINGH] (UI21CS44)

**Course Faculty**

### Dr. Reema Patel

## Department of Computer Science and Engineering

## Indian Institute of Information Technology Surat

## Gujarat-394190, India

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## Lab No: 1

## Aim:

To secure Microsoft Edge browser by performing various configuration tasks.

## Description:

The following tasks will be performed for configuring various security settings in the Microsoft Edge browser:

1. Manage Trusted Sites/Blocked Sites

2. Enable or Disable Cookies

3. Use Pop-up Blocker

4. Enable or Disable Scripts (JavaScript)

5. Manage Browsing History

6. Manage Password Saving/Master Password

### Trusted Sites/Blocked Sites

#### Manual Steps:

1. Open Edge and click on the three dots (menu) in the top-right corner.  
2. Select 'Settings'.  
3. Go to 'Cookies and site permissions'.  
4. Under 'All permissions', manage permissions for different sites by clicking on options like 'Pop-ups and redirects', 'Notifications', etc.  
5. Add sites to 'Allowed' or 'Blocked' lists as per your preference.

#### Code:

$site = 'example.com'  
$ip = '127.0.0.1'  
$hostsPath = 'C:\Windows\System32\drivers\etc\hosts'  
Add-Content -Path $hostsPath -Value "$ip $site"

### Enabling or Disabling Cookies

#### Manual Steps:

1. Open Edge and go to 'Settings'.  
2. Click on 'Cookies and site permissions'.  
3. Click on 'Manage and delete cookies and site data'.  
4. Toggle the settings according to your preferences, such as blocking third-party cookies.

#### Code:

Windows Registry Editor Version 5.00  
[HKEY\_LOCAL\_MACHINE\SOFTWARE\Policies\Microsoft\Edge]  
"BlockThirdPartyCookies"=dword:00000001

### Pop-Up Blocker

#### Manual Steps:

1. Open Edge and go to 'Settings'.  
2. Click on 'Cookies and site permissions'.  
3. Under 'Pop-ups and redirects', make sure the setting is set to 'Blocked'.

#### Code:

Windows Registry Editor Version 5.00  
[HKEY\_LOCAL\_MACHINE\SOFTWARE\Policies\Microsoft\Edge]  
"PopupsAllowed"=dword:00000000

### Enabling or Disabling Scripts (JavaScript)

#### Manual Steps:

1. Go to 'Settings' > 'Cookies and site permissions'.  
2. Click on 'JavaScript'.  
3. Toggle it on or off, or manage site exceptions.

#### Code:

Windows Registry Editor Version 5.00  
[HKEY\_LOCAL\_MACHINE\SOFTWARE\Policies\Microsoft\Edge]  
"JavaScriptEnabled"=dword:00000000

### Browsing History

#### Manual Steps:

1. Go to 'Settings' > 'Privacy, search, and services'.  
2. Scroll to 'Clear browsing data' and click 'Choose what to clear'.  
3. Configure settings to clear on exit.

#### Code:

$EdgeHistoryPath = "$env:LOCALAPPDATA\Microsoft\Edge\User Data\Default\History"  
Remove-Item -Path $EdgeHistoryPath -Force

### Saving Passwords / Master Password

#### Manual Steps:

1. Go to 'Settings' > 'Profiles'.  
2. Select 'Passwords'.  
3. Toggle off 'Offer to save passwords'.

#### Code:

Windows Registry Editor Version 5.00  
[HKEY\_LOCAL\_MACHINE\SOFTWARE\Policies\Microsoft\Edge]  
"PasswordManagerEnabled"=dword:00000000

## Conclusion:

* Managing site permissions enhances browsing control.
* Cookie settings protect privacy from tracking.
* Pop-up blockers prevent unwanted ads and threats.
* Disabling browser password management strengthens security.