

Network Set-up:

PC1 - IP Address: 192.168.254.3

PC2 - IP Address: 192.168.254.4

Web Server - IP Address: 192.168.254.2

Website Credentials:

Admin Account 1:

Username: admin

Password: P@ssw0rd!

User Account 1:

Username: user1

Password: U\$erP4ssword

Network IP Address Screenshots:

The image shows two side-by-side network configuration windows. Both windows have tabs for Physical, Config, Desktop, Programming, and Attributes. The Config tab is selected.

Left Window (192.168.254.4):

- FastEthernet0:**
 - Port Status: On
 - Bandwidth: 100 Mbps (selected)
 - Duplex: Full Duplex (selected)
 - MAC Address: 000C.85E5.DA09
 - IP Configuration:** Static (selected)
 - IPv4 Address: 192.168.254.4
 - Subnet Mask: 255.255.255.0
 - IPv6 Configuration:** Automatic (selected)
 - Link Local Address: FE80::20C:85FF:FE05:DA09

Right Window (192.168.254.3):

- FastEthernet0:**
 - Port Status: On
 - Bandwidth: 100 Mbps (selected)
 - Duplex: Full Duplex (selected)
 - MAC Address: 0060.5CAB.DE31
 - IP Configuration:** Static (selected)
 - IPv4 Address: 192.168.254.3
 - Subnet Mask: 255.255.255.0
 - IPv6 Configuration:** Automatic (selected)
 - Link Local Address: FE80::260:5CFF:FEA8:DE31

Server Setup:

The image shows two side-by-side server setup windows. Both windows have tabs for Physical, Config, Services, Desktop, Programming, and Attributes. The Services tab is selected.

Left Window (192.168.254.2):

- HTTP:**
 - HTTP: On (selected)
 - HTTPS: Off
- File Manager:**

File Name	Edit	Delete
1 index.html	(edit)	(delete)
2 welcome.html	(edit)	(delete)

Right Window (192.168.254.2):

- FastEthernet0:**
 - Port Status: On
 - Bandwidth: 100 Mbps (selected)
 - Duplex: Full Duplex (selected)
 - MAC Address: 00E0.F75B.25A1
 - IP Configuration:** Static (selected)
 - IPv4 Address: 192.168.254.2
 - Subnet Mask: 255.255.255.0
 - IPv6 Configuration:** Automatic (selected)
 - Link Local Address: FE80::2E0:F7FF:FE5B:25A1

Website Screenshots:

The image shows two side-by-side web browser windows. Both windows have tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is selected.

Left Window (192.168.254.4):

Web Browser window showing a login form:

Login

Username: _____
Password: _____

Right Window (192.168.254.4):

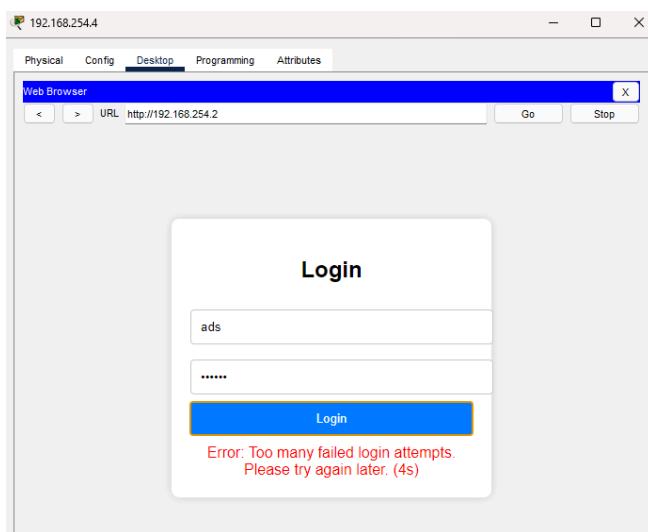
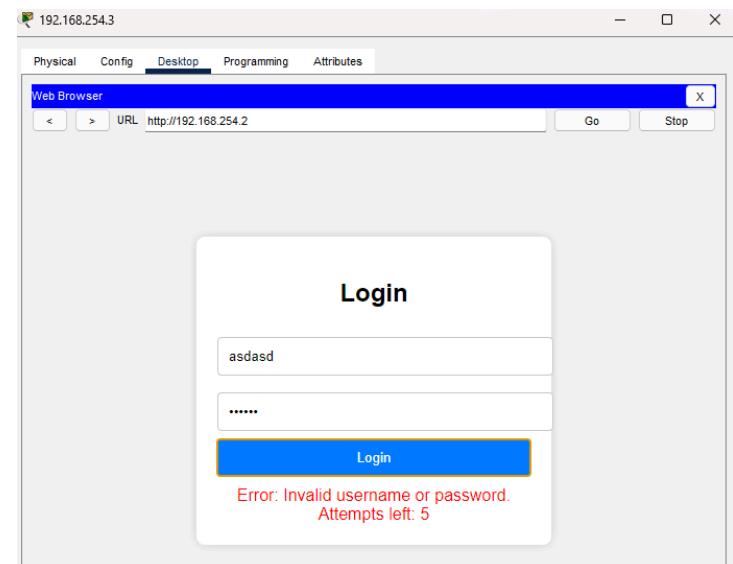
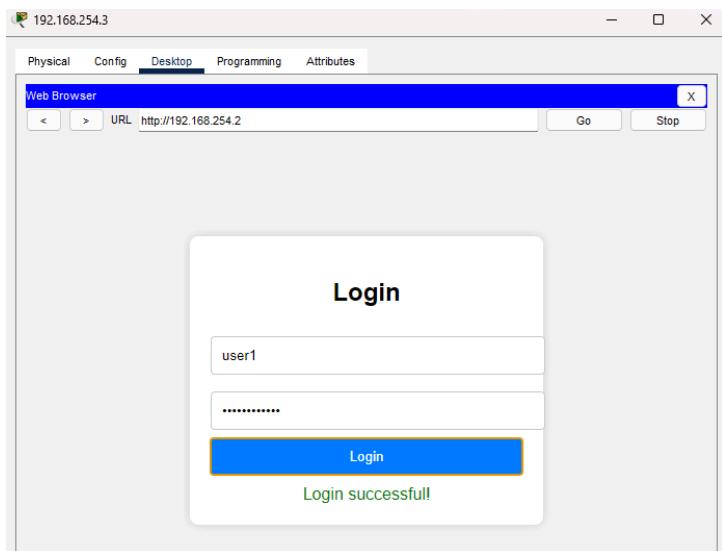
Web Browser window showing a successful login:

Login

admin
.....

Login

Login successful!



Why strong passwords are important?

Strong passwords are important because they protect our personal data from unauthorized access. Also, having weak and predictable are easy for cyber-attackers to guess using algorithms like brute force which may lead to identify theft and data breaches. By having a strong password just like what is recommended in this activity which contains a mix of uppercase letters, lowercase letters, numbers and special characters makes it much harder for cybercriminals to crack which increases our security in our personal accounts especially that nowadays, everything is digital.

How this exercise relates to real-world web security?

This activity shows the importance of authentication and security which is the fundamental things we need to know about real-world web security. By implementing things like having a limit on attempts of logging in wrong credentials to simulate a website that may prevent brute force algorithms and also practicing strong password creation, we can gain understanding towards how websites and applications protect users from cyberattacks. With that being said, this exercise can simulate what a real-world web security is and what it needs in order for us to safeguard data as a user and as a web developer.