## **3-3 Project One Stepping Stone: Network Troubleshooting Practice**

Joshua Merren

Southern New Hampshire University

CYB-310-13414-M01 Network Defense

Professor Megan Buckner

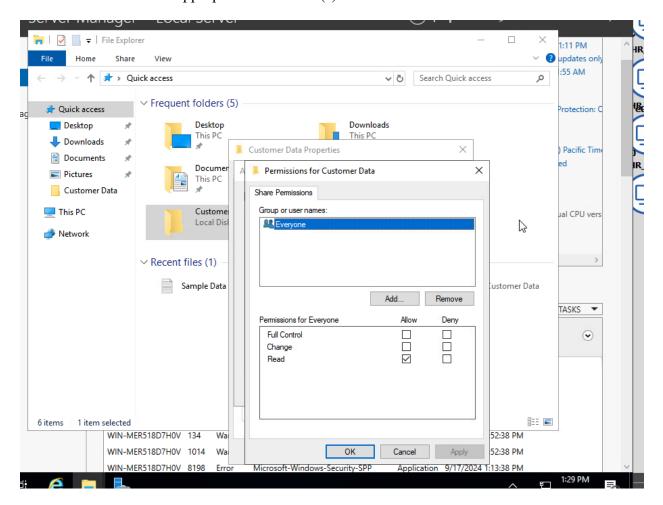
17 September 2024

## I. **Network Deficiencies**

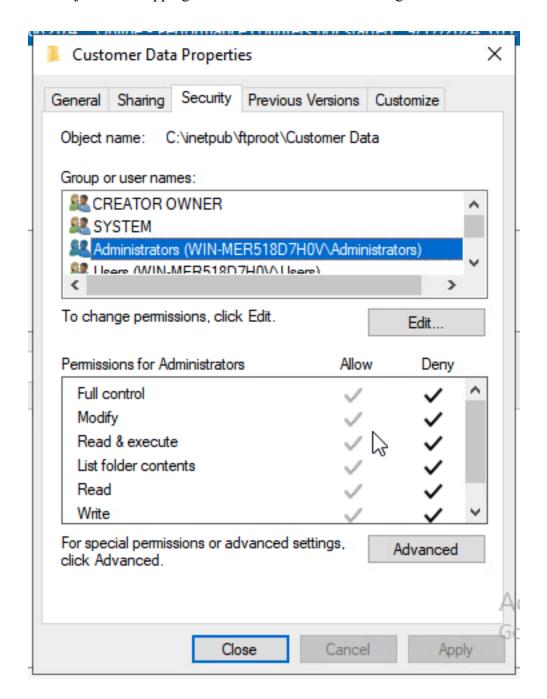
Issue One: Only users in the Sales and Customer Service departments need access I. to the Customer Data folder on the CS FTP server. The Human Resources department users should not have access.

II.

i. Identify the **configuration error** causing the issue by providing appropriate screenshot(s).



Troubleshoot the issue and provide screenshots of a **resolution**. ii.



iii. Explain your approach to troubleshooting the issue and justify your resolution.

First I looked at the permissions on the file and noticed that everyone had access to it. On the administrators, HR had access so I changed the permission to not allow the access by changing the ACLs to the group to not allow anyone from the 192.168.30.0/24 network.

III. Issue Two: Three of the four workstations in the Human Resources department cannot ping the Cloud IP address due to an IP address or switch misconfiguration. Find and correct the misconfigurations.

IV.

Identify the configuration error causing the issue by providing appropriate screenshot(s).

```
Command Prompt
Microsoft Windows [Version 10.0.19044.3086]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Student>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::d3da:fac1:c3db:de49%8
  IPv4 Address. . . . . . . . . : 192.168.30.1
  Default Gateway . . . . . . . : 192.168.30.254
C:\Users\Student>_
```

```
licrosoft Windows [Version 10.0.19044.3086]
(c) Microsoft Corporation. All rights reserved.
:\Users\Student>ipconfig
Vindows IP Configuration
Ethernet adapter Ethernet:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::2d85:3212:54b9:6f95%8 IPv4 Address . . . . . . . : 192.168.30.2
  Default Gateway . . . . . . . : 192.168.30.252
:\Users\Student>_
```

```
licrosoft Windows [Version 10.0.19044.3086]
(c) Microsoft Corporation. All rights reserved.
:\Users\Student>ipconfig
Vindows IP Configuration
Ethernet adapter Ethernet:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::9b17:9daf:125b:ab56%8 IPv4 Address . . . . . . . : 192.168.30.3
  Default Gateway . . . . . . . : 192.168.30.250
:\Users\Student>_
```

```
Ethernet adapter Ethernet:
  Connection-specific DNS Suffix
  Link-local IPv6 Address . . . . : fe80::54d:c231:1dab:5f57%8
  IPv4 Address. . . . . .
                            . . . : 192.168.30.4
  Default Gateway . . . . . . . . : 192.168.30.254
C:\Users\Student>en
:\Users\Student>en
'en' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\Student>icacls "C:\path\to\CustomerDataFolder
C:\path\to\CustomerDataFolder: The system cannot find the path specified.
Successfully processed 0 files; Failed processing 1 files
C:\Users\Student>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
  Connection-specific DNS Suffix
  Link-local IPv6 Address . . . . : fe80::54d:c231:1dab:5f57%8
  IPv4 Address. . . . . . . . . . . . . 192.168.30.4
  Default Gateway . . . . . . . : 192.168.30.254
C:\Users\Student>
```

Troubleshoot the issue and provide screenshots of a resolution.



Explain your approach to troubleshooting the issue and justify your iii. resolution.

I had to change some default gateways to the correct gateway, from there I pinged but still could not access the cloud. I had to fix the firewall rules to allow WAN connections and let everything through.

3-3 Project One Stepping Stone: Network Troubleshooting Practice

Merren 8