

# Ex050

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# Technical Report

## Risk Assessment

### Vulnerability Description

There were vulnerabilities found in a few of the open TCP ports when scanning **www.f4rmc0rp.com**.

Port 22 is running an SSH service with version OpenSSH 7.9, which is susceptible to a man-in-the-middle attacks and allows remote servers to bypass access restrictions (relevant CVEs: CVE-2019-6111, CVE-2019-6110, CVE-2019-6109, CVE-2018-20685).

There appears to be vulnerabilities surrounding the use of BIND 9.11.5.P4, but all ISC releases are unaffected which port 53 uses.

Port 80 uses Apache httpd 2.4.38, which is vulnerable to multiple slashes being used for services, such as LocationMatch and RewriteRule, need to account for regular expression and servers will end up collapsing them (relevant CVE: CVE-2019-0220).

Port 2121 was running an FTP service with version vsftpd 2.3.4, which is vulnerable to a remote Metasploit backdoor execution command. Further, we were able to connect to the FTP service and login using the default login credentials.

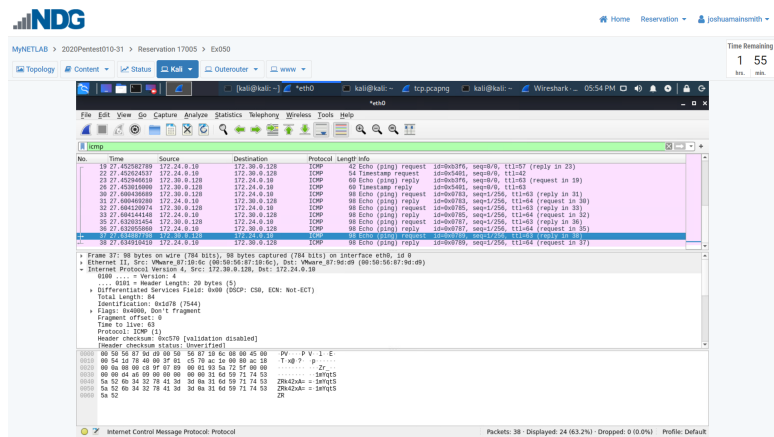
## Attack Narrative

### TCP Version Scan

The first thing we did was run a version scan against **www.f4rmc0rp.com**, using the Linux command **time sudo nmap -sV www.f4rmc0rp.com** (we included time at the beginning to show the difference in scanning time between a TCP and and an UDP scan). As can be seen in the image below, the open TCP ports out of the 1000 scanned are 22, 53, 80, 443, and 2121.







# Zoom Link

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