Cheat Sheet - PCW Command Injection

Friday, February 5, 2016 6:17 PM

Command Execution

- 1. Command Execution
 - o Instructions:
 - 1. Click on Command Execution



2. Execute Ping

- O Notes:
 - Below we are going to do a simply ping test using the web interface.
 - As an example, ping something on your network.
 - Use the IP Address obtained in Section 3, Step 3 if you have nothing else to ping.
- Instructions:
 - 1. 192.168.1.106
 - 2. Click Submit



- 3. cat /etc/password (Attempt 1)
 - o Instructions:
 - 1. cat /etc/passwd
 - 2. Click Submit
 - O Notes:
 - Notice that either a messaging saying illegal IP address was displayed or nothing was returned.



- 4. cat /etc/password (Attempt 2)
 - Instructions:
 - 1. 192.168.1.106; cat /etc/passwd
 - 2. Click Submit

O Notes:

Notice that we are now able to see the contents of the /etc/passwd file.



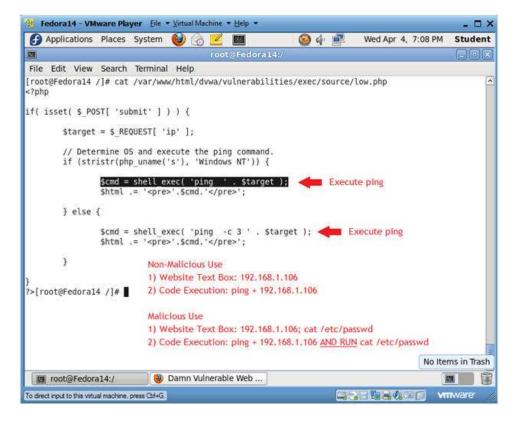
5. Looking at the weakness

o Instructions:

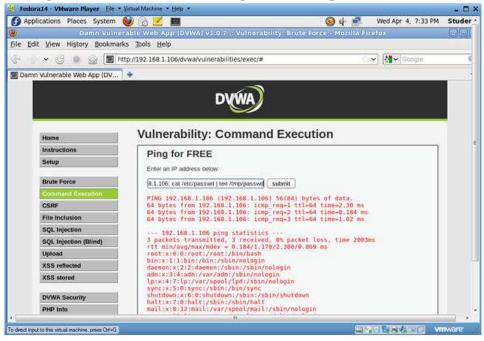
- Bring up a terminal window (See Section 3, Step 1, if you don't know how)
- 2. cat /var/www/html/dvwa/vulnerabilities/exec/source/low.php

O Notes:

- 1. Notice the two shell exec lines.
- 2. These are the lines that execute ping depending on which Operating System is being used.
- 3. In Unix/Linux command, you can run multiple command separated by a ";".
- 4. Notice the code does not check that if \$target matches an IP Address
 - □ \d+.\d+.\d+, where "\d+" represents a number with the possibility of multiple digits, like 192.168.1.106.
- 5. The code allows for an attacker to append commands behind the IP Address.
 - 1. 192.168.1.106; cat /etc/passwd



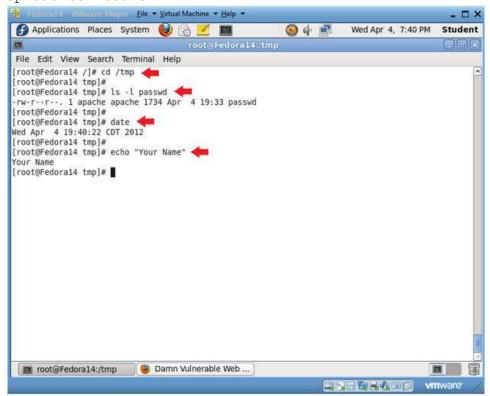
- 6. Copy the /etc/passwd file to /tmp
 - o Instructions:
 - 1. 192.168.1.106; cat /etc/passwd | tee /tmp/passwd
 - O Note:
 - Here we are not only displaying the contents of /etc/passwd on the webpage, but also we are copying the /etc/passwd file to the /tmp directory.



Section 6: Proof of Lab

- 1. Proof of Lab
 - O Instructions:
 - 1. Bring up a terminal windows

- 2. cd /tmp
- 3. ls -l passwd
- 4. date
- 5. echo "Your Name"
 - □ Replace the string "Your Name" with your actual name.
 - □ e.g., echo "John Gray"
- Proof of Lab Instructions:
 - 1. Do a <PrtScn>
 - 2. Paste into a word document
 - 3. Upload to Moodle



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