

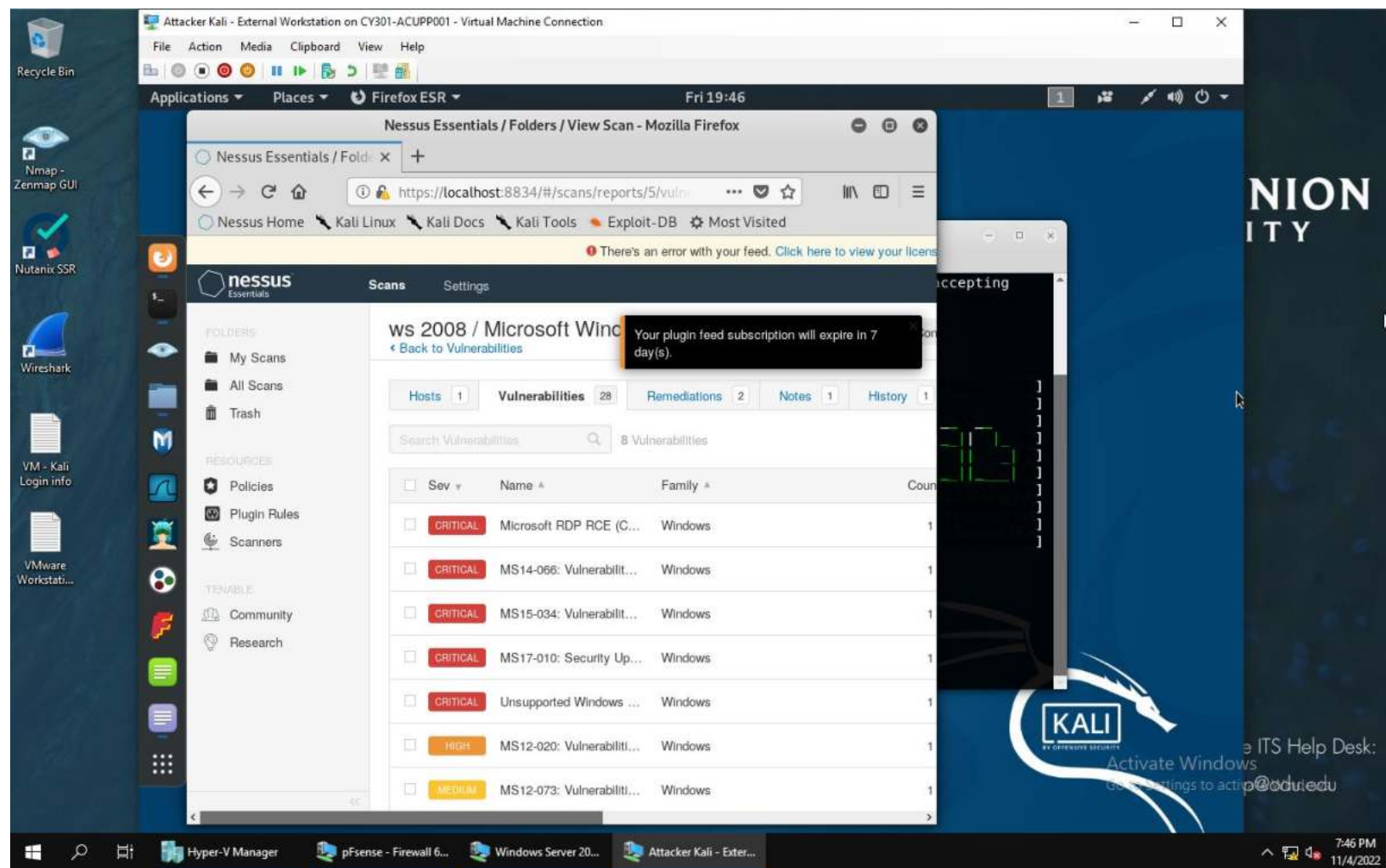
OLD DOMINION

CYSE301 CYBERSECURITY TECHNIQUES AND OPERATIONS

Assignment #4 – Ethical Hacking

AUSTIN CUPP

01183567



A.1 display of all 5 critical security issues in the target Windows server 2008

Attacker Kali - External Workstation on CY301-ACUPP001 - Virtual Machine Connection

File Action Media Clipboard View Help

Applications Places Firefox ESR Fri 19:53

Nessus Essentials / Folders / View Scan - Mozilla Firefox

https://localhost:8834/#/scans/reports/5/vulnerabilities/group/125313/82828

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nessus Essentials Scans Settings

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TENABLE

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Hosts 1 Vulnerabilities 28 Remediations 2 Notes 1 History 1

CRITICAL MS15-034: Vulnerability in HTTP.sys Could Allow Remote Code Execution

Description

The version of Windows running on the remote host is affected by an integer overflow condition in the HTTP protocol stack (HTTP.sys) due to improper parsing of crafted HTTP requests. An unauthenticated, remote attacker can exploit this to execute arbitrary code with System privileges.

Solution

Microsoft has released a set of patches for Windows 7, 2008 R2, 8, 8.1, 2012, and 2012 R2

See Also

<https://docs.microsoft.com/en-us/security-updates/SecurityBulletins/2015/ms15-034>

Output

```
HTTP response status: HTTP/1.1 416 Requested Range Not Satisfiable
```

Port	Hosts
80 / tcp / www	192.168.10.11

Plugin Details

Severity: Critical
ID: 82828
Version: 1.11
Type: remote
Family: Windows
Published: April 16, 2015
Modified: November 16, 2015

Risk Information

Risk Factor: Critical
CVSS v3.0 Base Score 9.8
CVSS v3.0 Vector: CVSS:3.0/AV:N/AC:L/AT:N/SC:N/EA:H/PR:C/CV:SS/OWASP:2015-034
CVSS v3.0 Temporal Vector: CVSS:3.0/AV:N/AC:L/AT:N/SC:N/EA:H/PR:C/CV:SS/OWASP:2015-034
CVSS v3.0 Temporal Score: 10.0
CVSS Base Score: 10.0
CVSS Temporal Score: 8.3

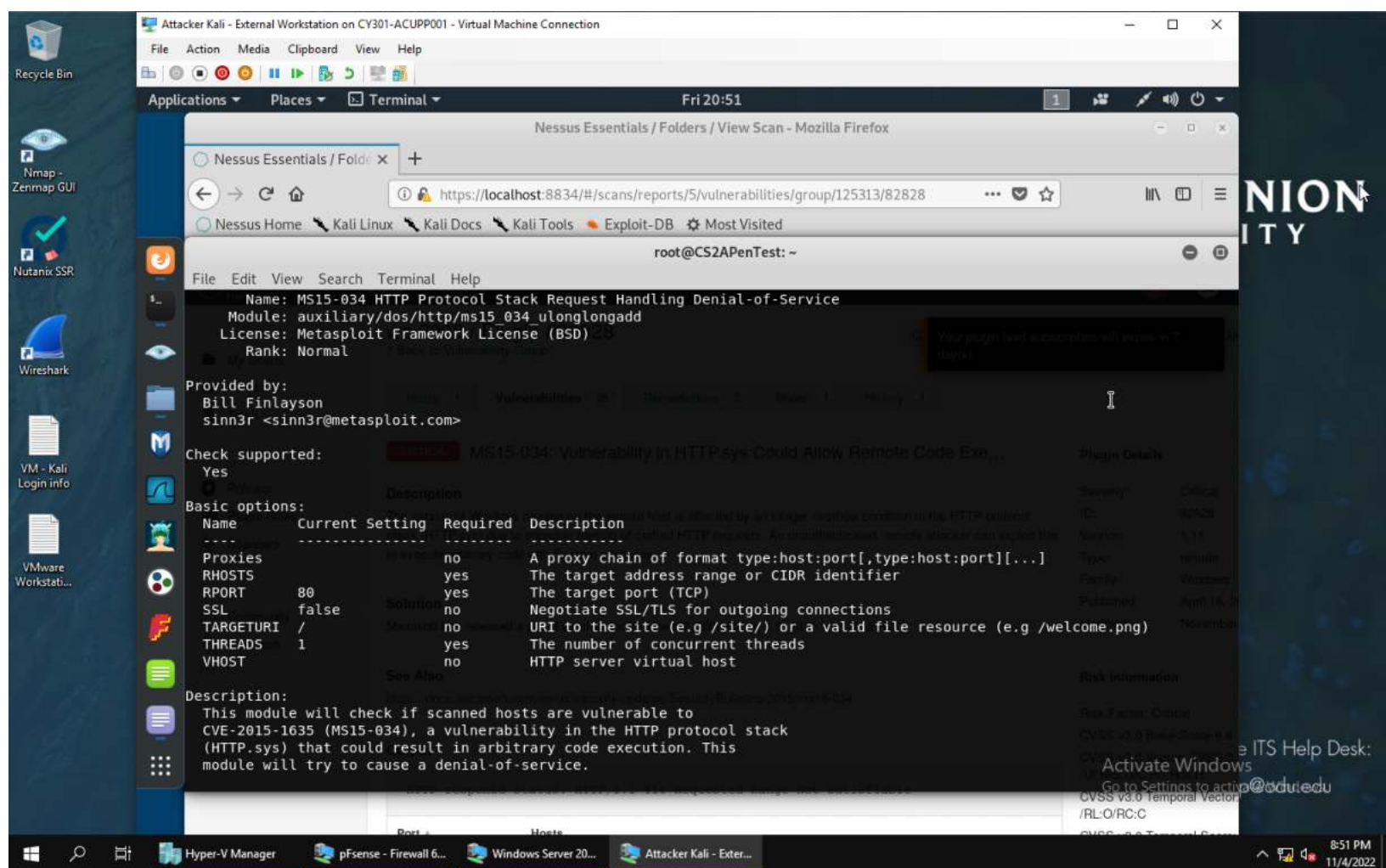
Your plugin feed subscription will expire in 7 day(s).

Hyper-V Manager pFsense - Firewall 6... Windows Server 20... Attacker Kali - Exter...

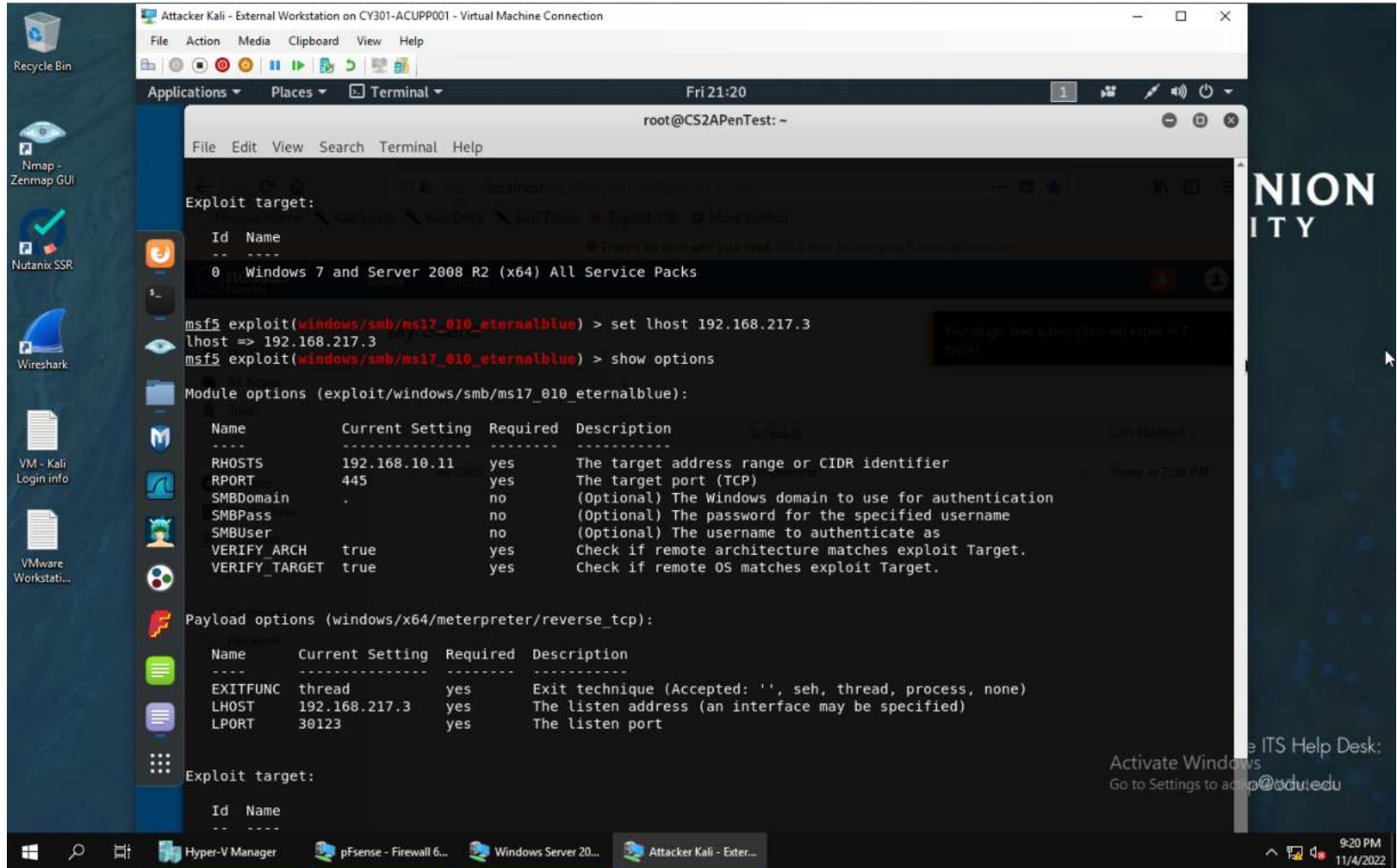
7:53 PM 11/4/2022

A.2 exploit that targets a security issue other than MS17-010.

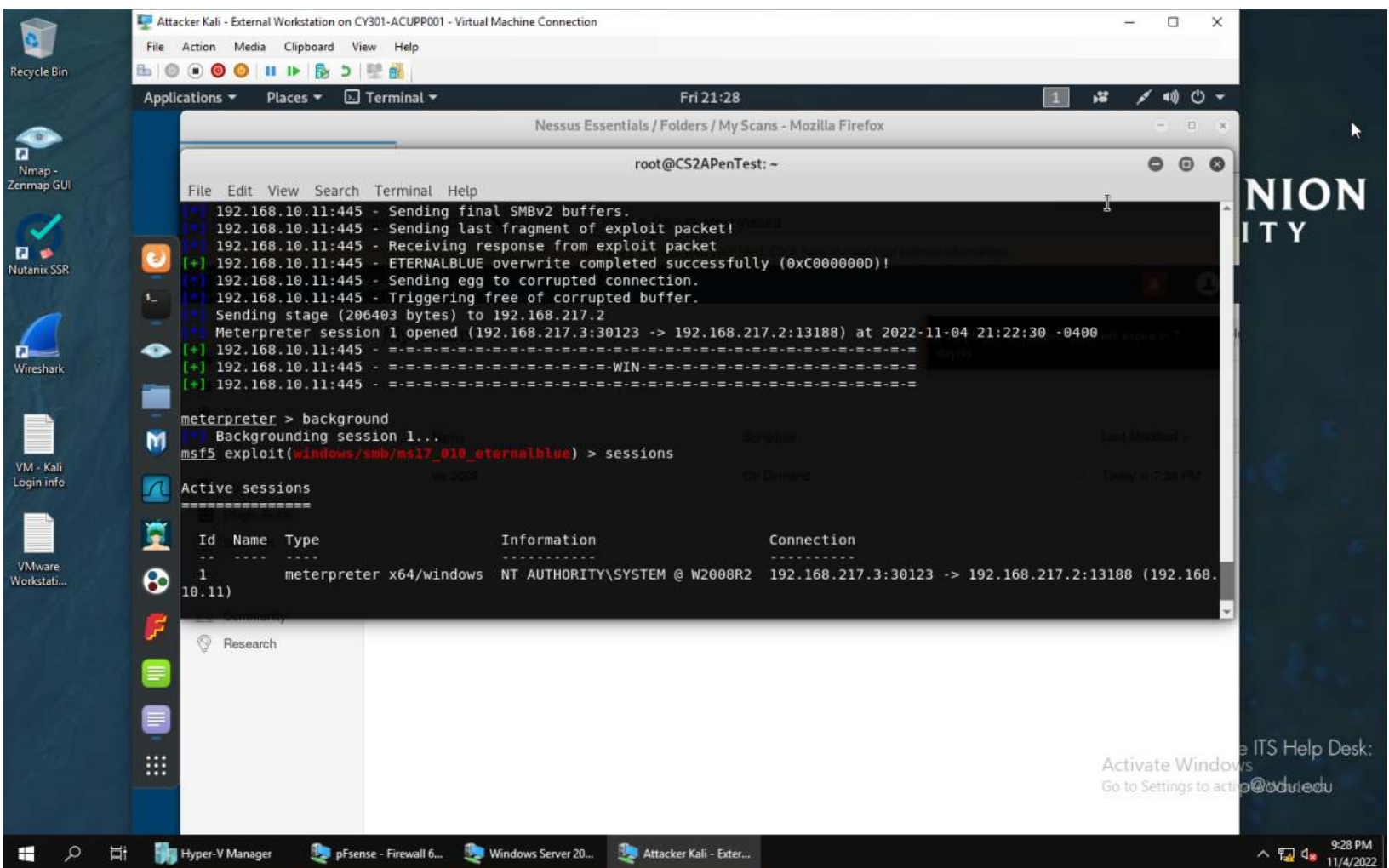
I chose MS15-034. CVE-2015-1635.



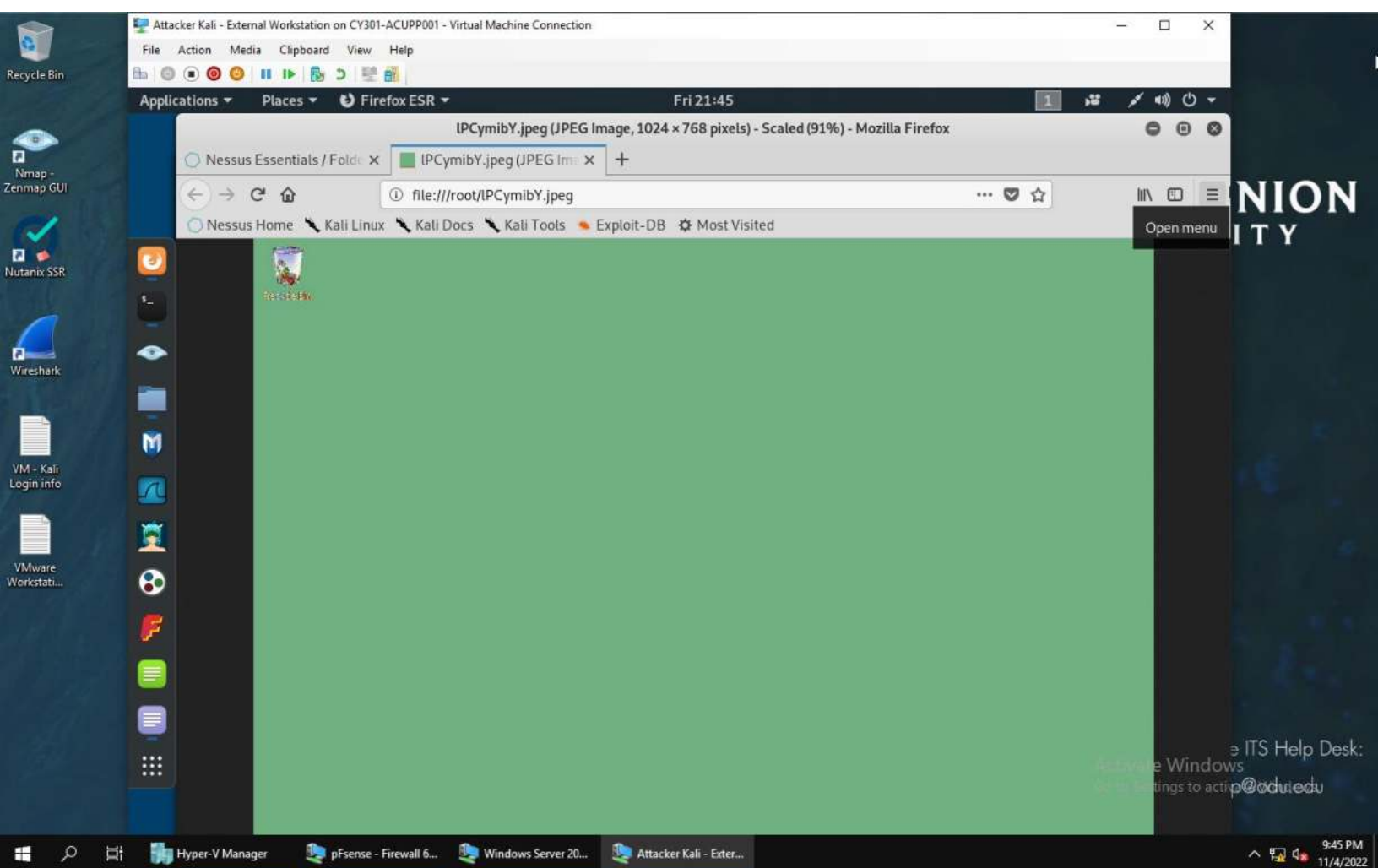
A.3 Needed options are Remote hosts, Remote port, threads and a remote client. This will check if scanned hosts have a vulnerability in the HTTP protocol stack allowing arbitrary code execution. Allows remote attackers to execute arbitrary code via crafted HTTP requests. This is a denial of service module.



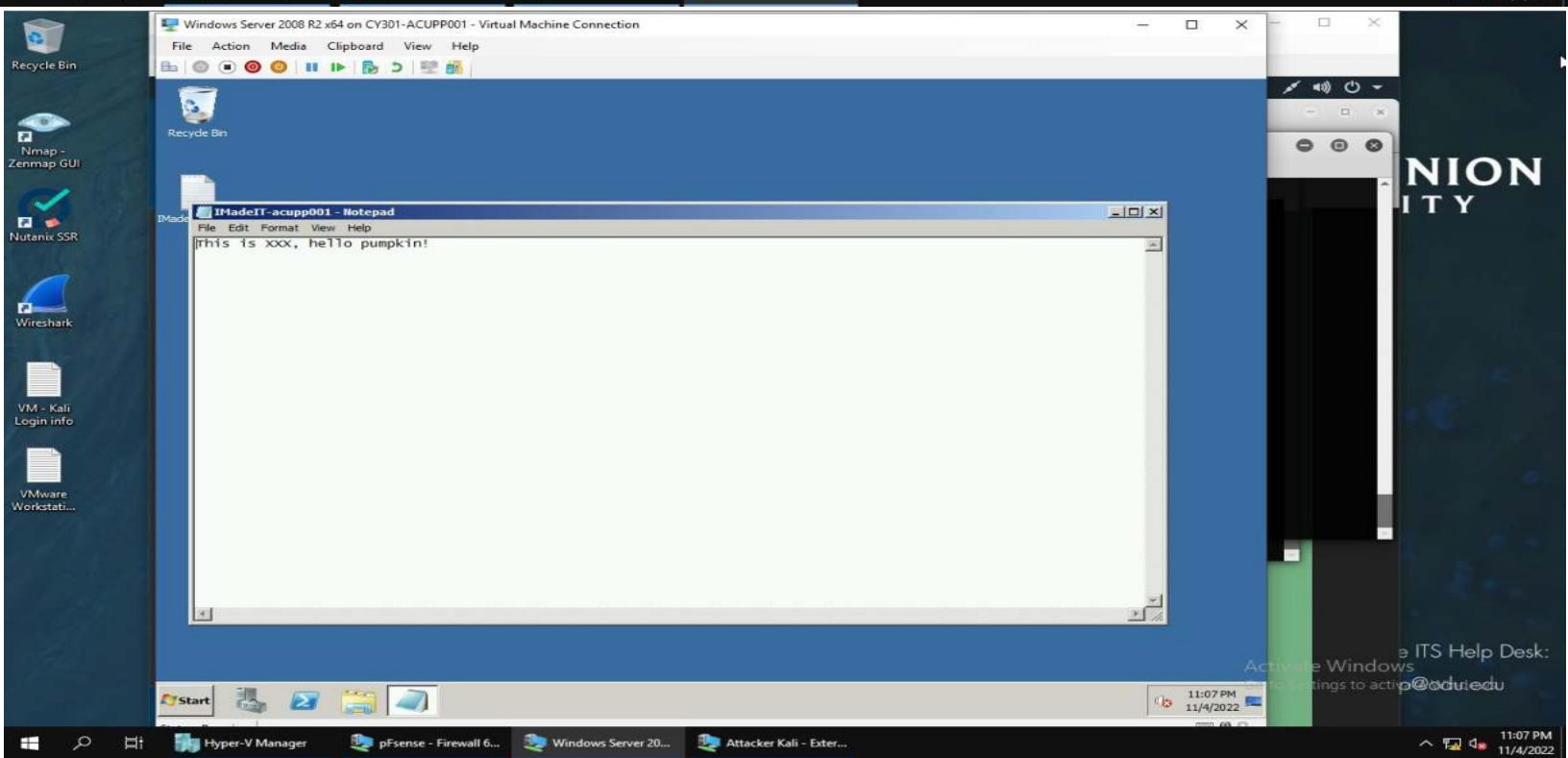
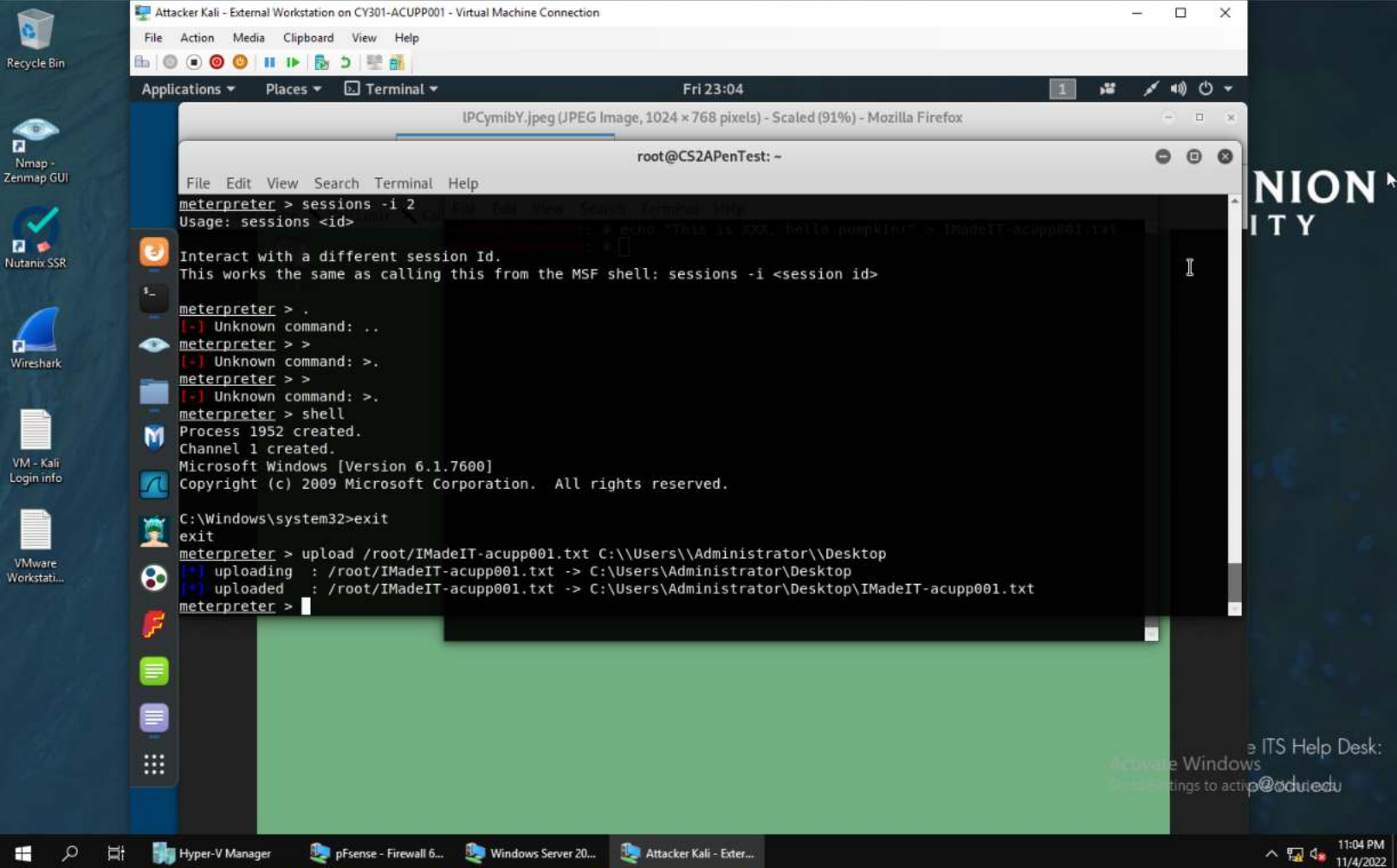
B.1 Payload options are configured, 30123 is the listening port number.



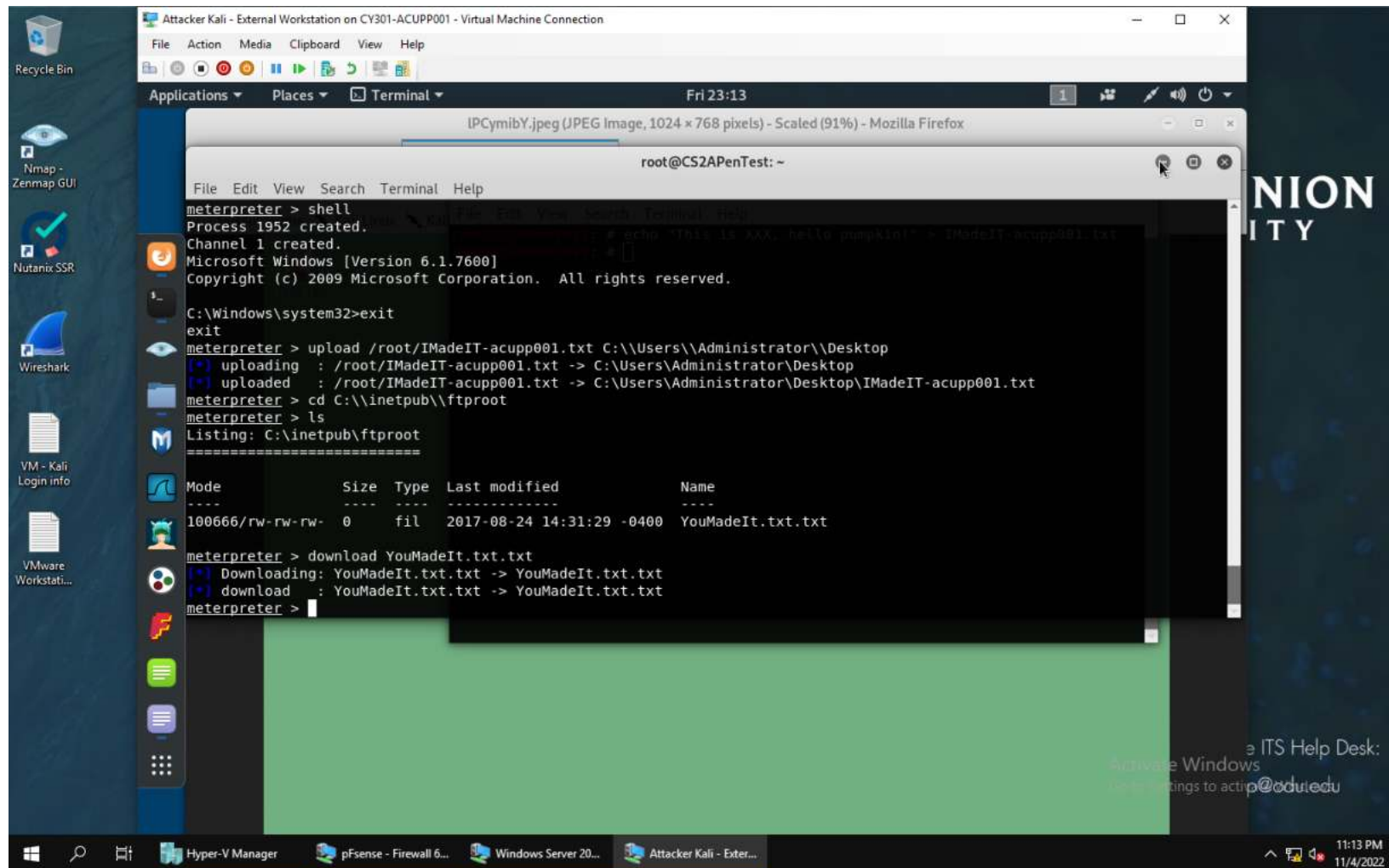
B.2 Meterpreter session is background using background command. Then the active sessions are displayed.



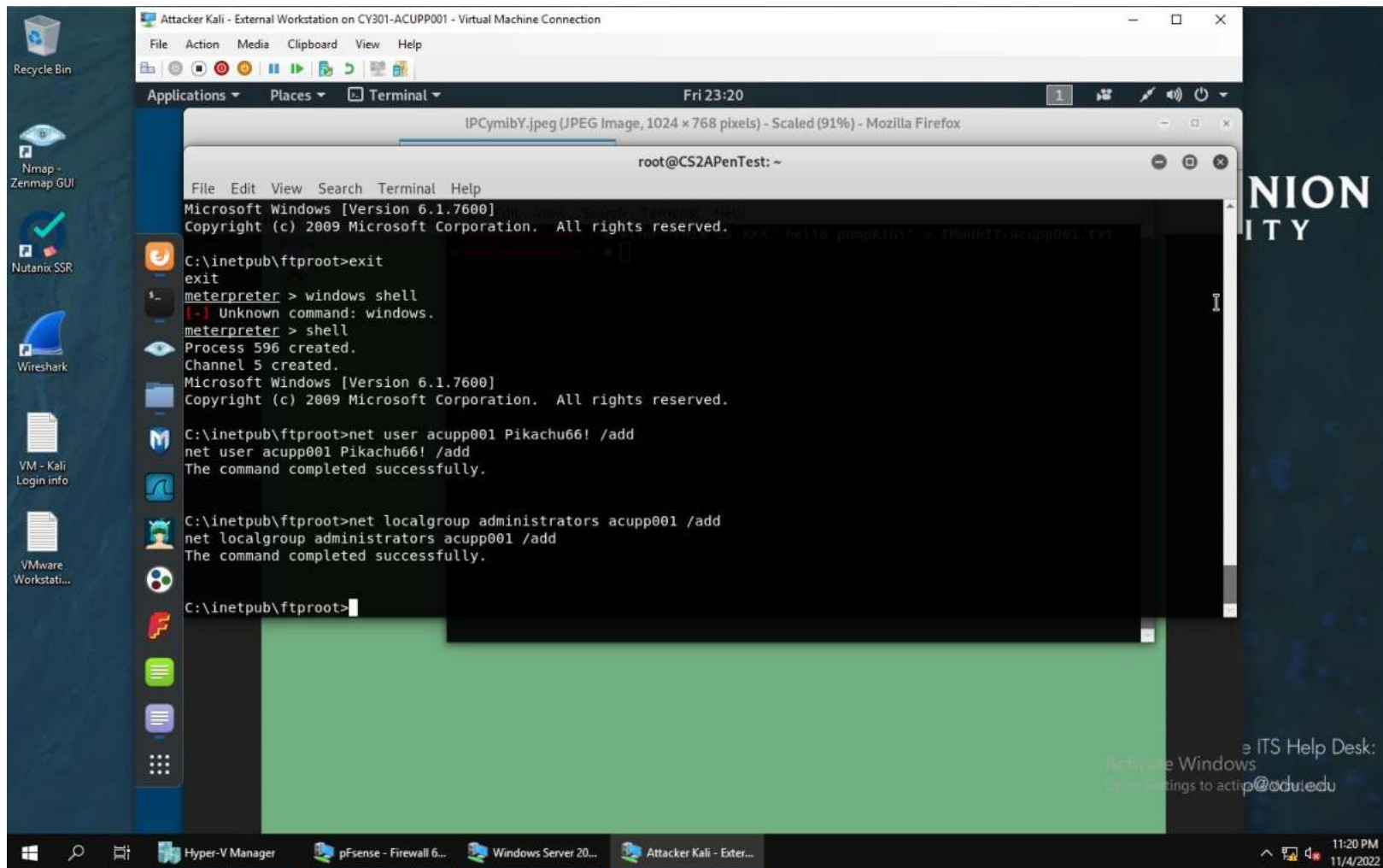
C.1 A screenshot of the target machine



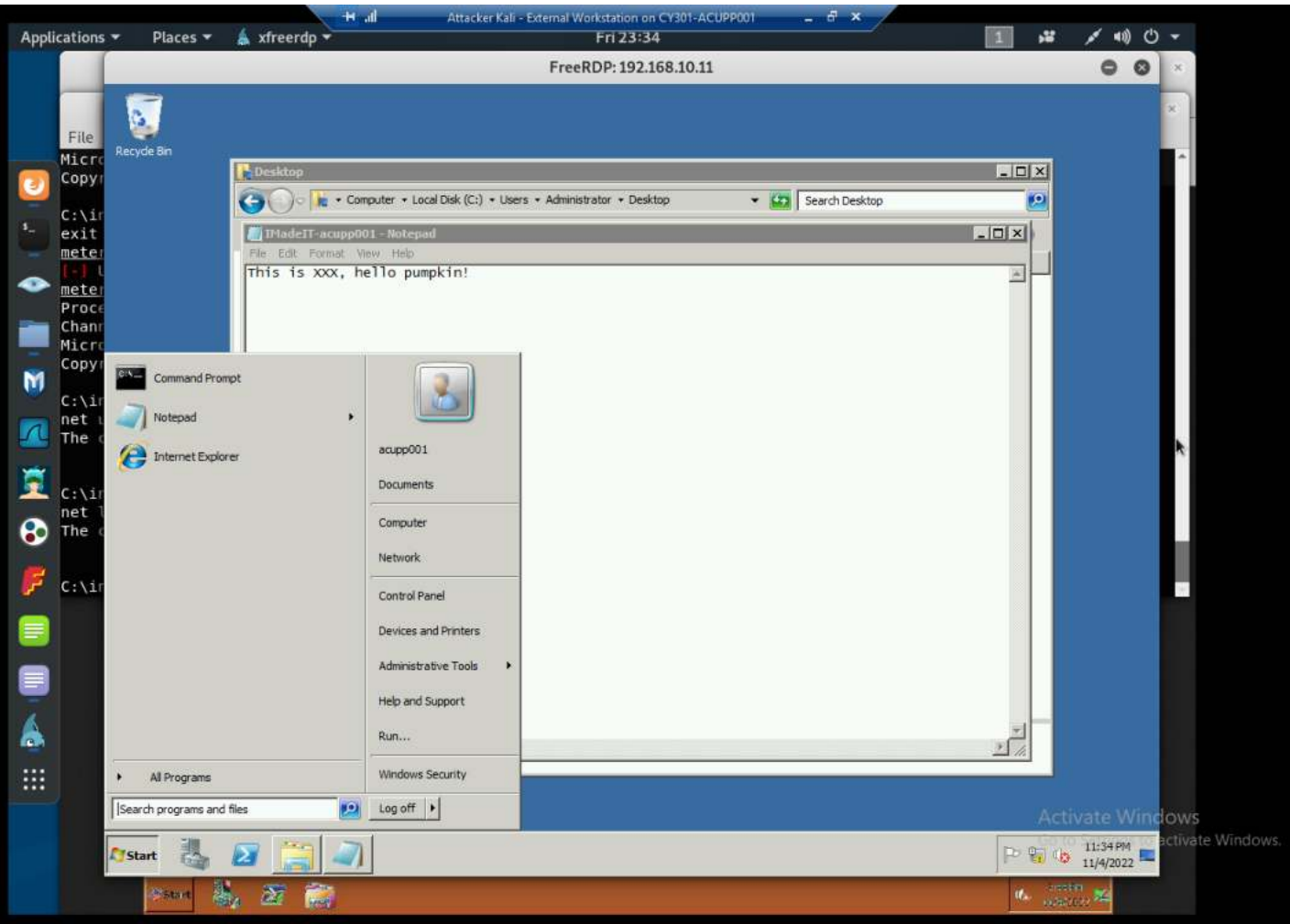
C.2 Text file is created named "IMadeIT-acupp001.txt" with "This is XXX, hello pumpkin!" in the file, the file is uploaded to the target desktop, the file exists, and the command is shown that uploaded the file.



C.3 The file is stolen (downloaded) from C:/inetpub/ftproot/



C.4 Windows Command Prompt accessed via the meterpreter shell, a malicious user is created with Acupp001 with admin privilege in the Windows Server 2008.



C.5 Remote access to the malicious account is created in the previous step and here I browse the files belonging to the other user in the RDP.