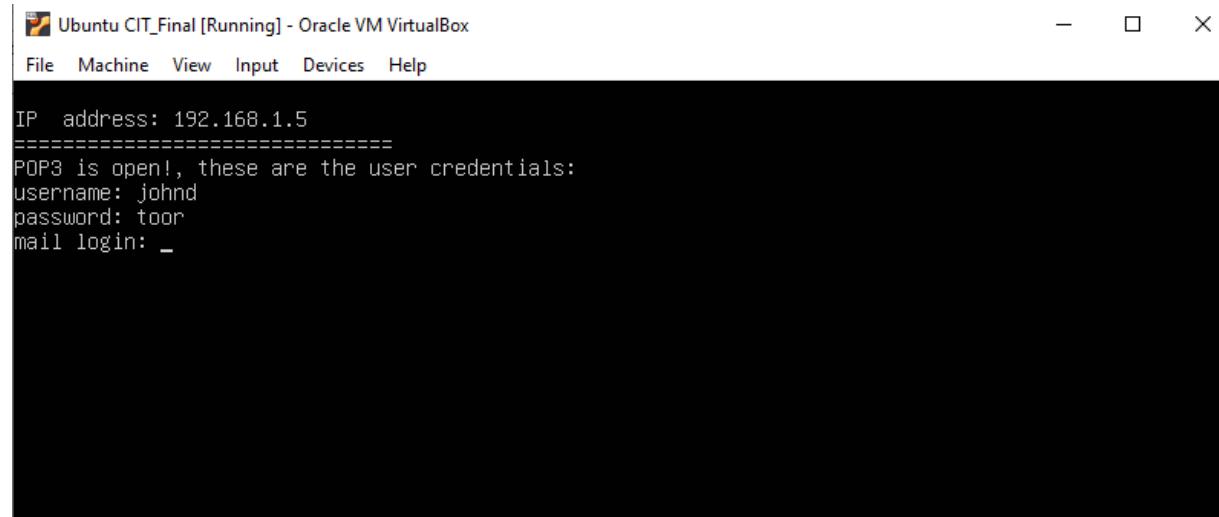


Jakub Jędrzejczak

Task 1: Connect to the Mail Server

1.

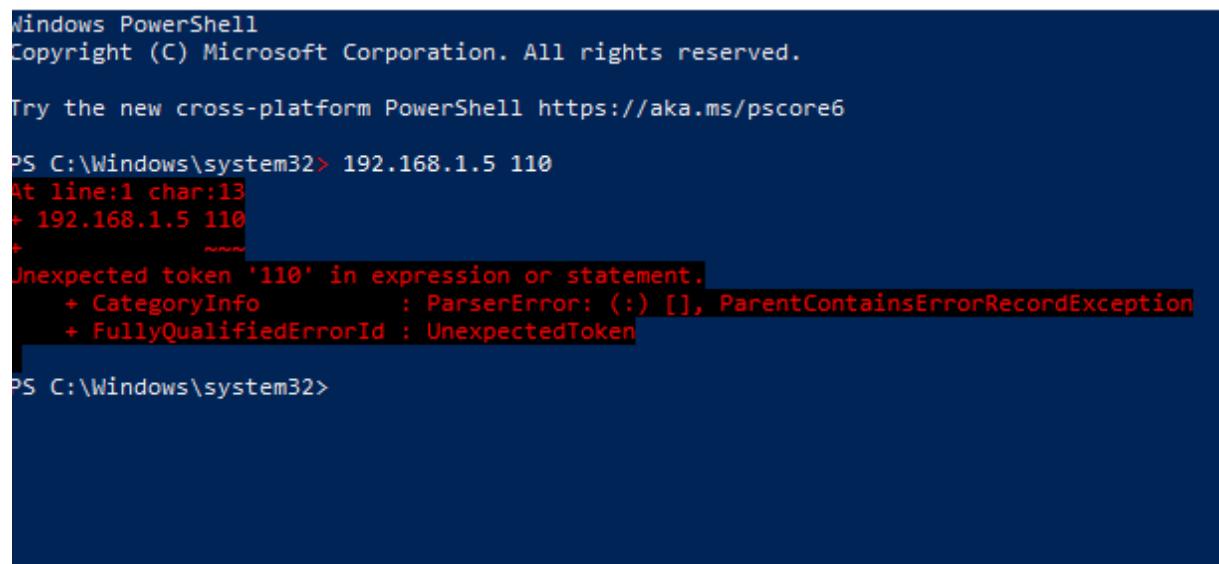


```
Ubuntu CIT_Final [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

IP address: 192.168.1.5
=====
POP3 is open!, these are the user credentials:
username: johnd
password: toor
mail login: _
```

2. 110

3.



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32> 192.168.1.5 110
At line:1 char:13
+ 192.168.1.5 110
+           ~~~
Unexpected token '110' in expression or statement.
+ CategoryInfo          : ParserError: (:) [], ParentContainsErrorRecordException
+ FullyQualifiedErrorId : UnexpectedToken

PS C:\Windows\system32>
```

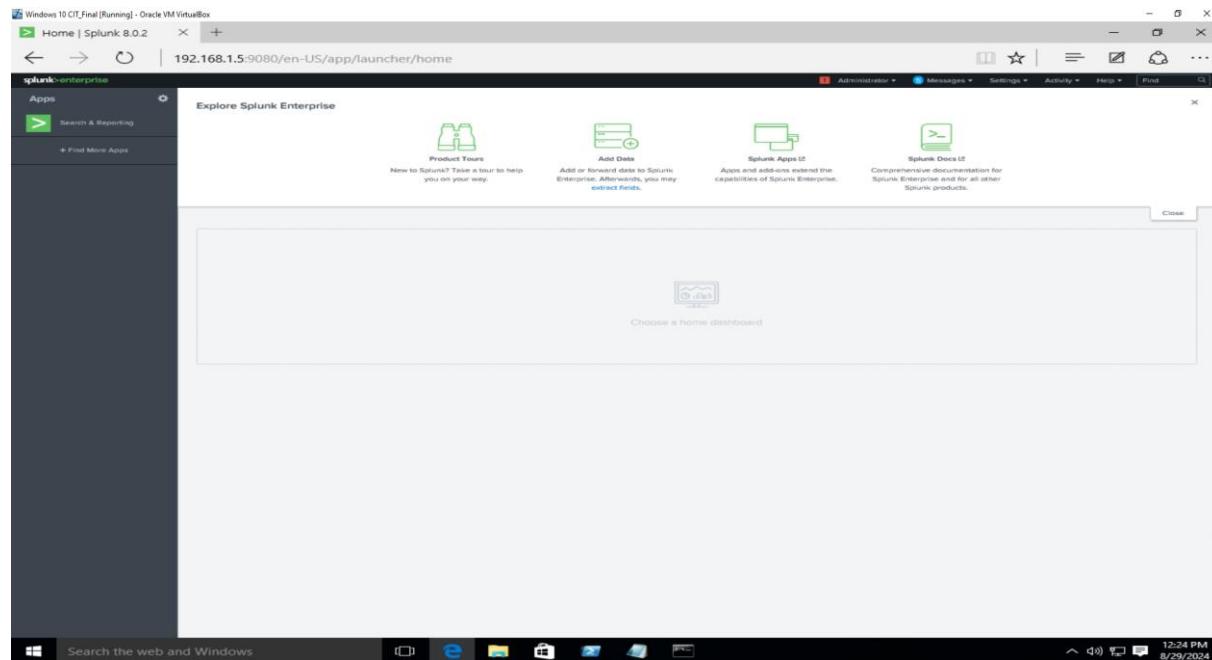
nie udało się połączyć z powodu braku instalacji telnet na win10

4. dism /online /Enable-Feature /FeatureName:TelnetClient

5 i6.

```
+OK dovecot (Ubuntu) ready.  
+USER johnd  
+OK  
+PASS toor  
+OK Logged in.  
LIST  
+OK 5 messages:  
1 830  
2 1050  
3 837  
4 939  
5 1027  
+RETR 4  
+OK 939 octets  
Return-Path: <admin@mail.corporate.com>  
X-Mailer: dovecot-2.3.3  
Delivered-To: johnd@corporate.com  
Received: by mail.corporate.com (Postfix, from user id 1002)  
id 53D6463B98; Mon, 17 Feb 2020 04:08:18 -0500 (EST)  
To: <johnd@corporate.com>  
Subject: We launched Splunk!  
X-Mailer: mail (GNU Mailutils 3.6)  
Message-ID: <20200217090818.53D6463B98@mail.corporate.com>  
Date: Mon, 17 Feb 2020 04:08:18 -0500 (EST)  
From: Administrator <admin@mail.corporate.com>  
  
Hey there,  
We wanted to call your attention to our new SIEM product we released over night.  
Using this new feature, you'll be able to investigate for suspicious events.  
If you have any questions about the best ways to use Splunk, please feel free to give us a call at +1-202-555-0128.  
To use Splunk, navigate to the following URI:  
http://\[SERVER-IP\]:9080/  
The credentials are as follow:  
username: admin  
password: CIT_Final!  
Thank you,  
Admin  
-ERR Disconnected for inactivity.
```

7.



Task 2: Search for Suspicious Activity

1.

New Search
index== "download"
4/2/19 7:19:00.000 AM to 8/26/24 3:00:00.000 PM No Event Sampling
Events (344) Patterns Statistics Visualization
Format Timeline - Zoom Out + Zoom to Selection Deselect
1 month per col
List Format 50 Per Page ▾
< Hide Fields All Fields
SELECTED FIELDS
@host 4
@source 7
@sourcetype 4
INTERESTING FIELDS
@date._hour 12
@date._mskey 5
@date._minut 40
@date._month 4
@date._second 53
@date._wday 3
@date._zone 2
@date.year 2
@index 1
@lastEvent 4
@pid 4
@process 3
@punct 13
@splunk_server 1
@timestamp 1
@timestamppos 1
15 more fields
+ Extract New Fields
1 11/23/20 Nov 23 02:27:37 mail systemd[1]: Started Daily apt download activities.
host = mail | source = /var/log/syslog | sourcetype = syslog
2 11/23/20 8:27:37:000 AM [[0;32m OK [0m] Started [0;1;39mDaily apt download activities[0m,
host = mail.corporate.com | source = /var/log/boot.log | sourcetype = linux_bootlog
3 11/23/20 8:23:34:000 AM Nov 23 02:23:34 mail systemd[1]: Started Daily apt download activities.
host = mail | source = /var/log/syslog | sourcetype = syslog
4 11/23/20 8:23:34:000 AM { [-]
eventid: cowrie.session.file_download.failed
message: Attempt to download file(s) from URL (https://pastebin.com/raw/0QaueMfe) failed
sensor: mail.corporate.com
session: abef3fb31ca5
src_ip: 192.168.56.1
timestamp: 2020-07-27T07:26:28.143815Z
url: https://pastebin.com/raw/0QaueMfe
} Show as raw text
host = mail.corporate.com | source = /home/cowrie/cowrie/var/log/cowrie/cowrie.json | sourcetype = _json
{ [-]
eventid: cowrie.session.file_download.failed
message: Attempt to download file(s) from URL (https://pastebin.com/raw/jpSBiHjC) failed
sensor: mail.corporate.com
session: b61b3227abb2
src_ip: 192.168.56.1
timestamp: 2020-07-27T07:14:47.991073Z
url: https://pastebin.com/raw/jpSBiHjC
}
5 11/23/20 8:23:34:000 AM { [-]
host = mail.corporate.com | source = /home/cowrie/cowrie/var/log/cowrie/cowrie.json | sourcetype = _json
}

2.

Home | Splunk 8.0.2 | Search | Splunk 8.0.2 | pastebin.com | pastebin.com | pastebin.com | Base64 Decode and Enc +
← → ⌂ pastebin.com/raw/0cs1NHvh
029u23JhdHMsiH1vdSBoYXz1IGZpbmlzaGVkIENJVFP9GSU5BTCEzdWNjZXNzZnVsbbHk=

3.

Base64 Decode
Decode Base64 string or use the Base64 to File tool for large files

```
Q29uZ3JhdHMsIHlvdSB0YXZlIGZpbmlzaGVkIENJVF9GSU5BTEBzdWNjZXNzZnVsbHk=
```

Media Expert
Krups - Promocja  [KUP TERAZ >](#)

DECODE

Shareable url: <https://www.base64decode.net/decode/5A3h>

Congrats, you have finished CIT_FINAL successfully