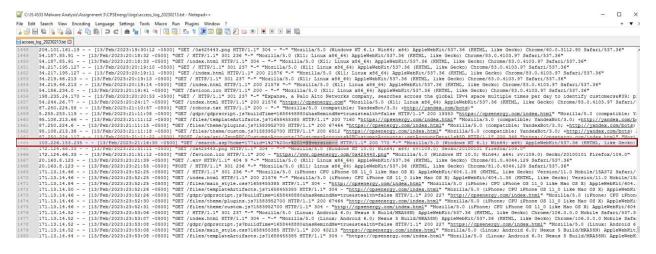
**1.** Using find\_sql\_injection via command terminal I discovered access\_log\_20230213.txt contains the SQL Injection attack %201=@@version--.

Opening access\_log\_20230213.txt via Notepad++, searching for %201=@@version--, I discovered IP 103.226.153.235 was responsible.



**2.** After modifying find\_ip.yar to search for IP 103.226.153.235, I executed find\_ip.yar in the command terminal to find 103.226.153.235 in the executable files. quser.exe.vxe contains the suspicious IP 103.226.153.235.

**3.** Using the Bstrings utility, I executed bstrings -f quser.exe.vxe --lr b64 in the command terminal. Examining the output, I determined SmFtZXNfSmVuc2VuQGdtYWlsLmNvbQ== as likely Base64.



Decode from Base64 format

Decoded SmFtZXNfSmVuc2VuQGdtYWlsLmNvbQ== via base64decode.org, which revealed James Jensen@gmail.com as the critical email used by actors to exfiltrate CPSEnergy data.

## Simply enter your data then push the decode button. SmFtZXNfSmVuc2VuQGdtYWlsLmNvbQ== For encoded binaries (like images, documents, etc.) use the file upload form a little further down on this page. UTF-8 Source character set. Decode each line separately (useful for when you have multiple entries). D Live mode OFF Decodes in real-time as you type or paste (supports only the UTF-8 character set). C DECODE > Decodes your data into the area below. James\_Jensen@gmail.com

## **BONUS**

Using find\_pe\_imports.yar YARA rule to look for wininet.dll and cyrpt32.dll, I discovered that windry.exe.vxe is the potential malware that contains both.

Below is the output of using the CAPA tool against windrv.exe.vxe via command terminal, revealing its capabilities.

```
loading : 100%
                                                                                  703/703 [00:00<00:00, 1323.68 rules/s]
natching: 100%
                                           439/439 [00:09<00:00, 48.11 functions/s, skipped 77 library functions (17%)]
 md5
                          8f62856617bfb752b7c4746d9a384659
 sha1
                          85f5814d9db8f280c1732710d8ba9ca4b5a612d5
 sha256
                          983502c17475814cccc6d8b41a87b62b28ded6dce680a67dd6ee44b367e20a1a
                          windows
 format
                          amd64
 arch
 path
                          windry.exe.vxe
 ATT&CK Tactic
                          ATT&CK Technique
                                                              T1213
                                                            T1027
                               MBC Behavior
 MBC Objective
                                             [C0019]
                                           ::Base64 [C0026.001]
                                                                ::Encoding-Standard Algorithm [E1027.m02]
                                                  [C0018]
 CAPABILITY
                                                         NAMESPACE
                          (4 matches)
                                                          collection/database/sql
                                                          data-manipulation/encoding/base64
                                                         data-manipulation/encoding/base64
                                                          executable/pe/section/rsrc
                                 (2 matches)
                                                         host-interaction/process/terminate
```