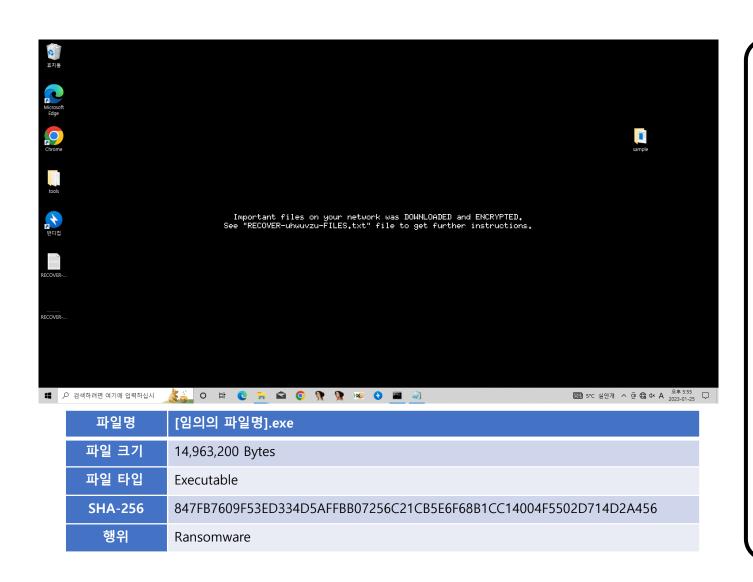
91913622 송태현



발표

1. What kind of malware is it?





Name : BlackCat(ALPHV)

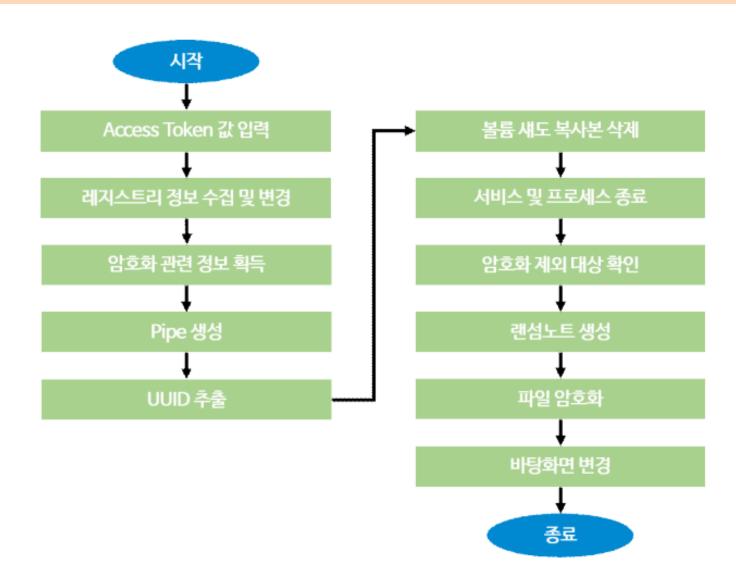
Language : Rust

Since: 2021 November

Victim: France, Switzerland, Italy.

2. Malware operation process



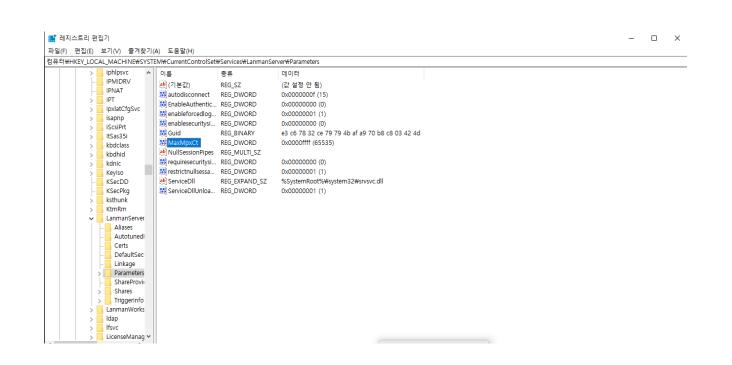




```
:#Users#truebird#Desktop#sample>blackcat.exe --help
   [OPTIONS] [SUBCOMMAND]
: 2MOLTEC
                                                    Access Token
                                                     Run as child process
                                                     Invoked with drag and drop
       --drag-and-drop
                                                     Drop drag and drop target batch file
      --drop-drag-and-drop-target
                                                     Log more to console
                                                     Print help information
                                                    Enable logging to specified file
Do not discover network shares on Windows
                                                     Do not self propagate(worm) on Windows
                                                     Do not propagate to defined servers
                                                     Do not stop VMs on ESXi
       --no-vm-kill-names <NO_VM_KILL_NAMES>...
                                                    Do not stop defined VMs on ESXi
                                                     Do not wipe VMs snapshots on ESXi
                                                     Do not update desktop wallpaper on Windows
                                                     Only process files inside defined paths
                                                     Run as propagated process
                                                     Show user interface
                                                     Log to console
```

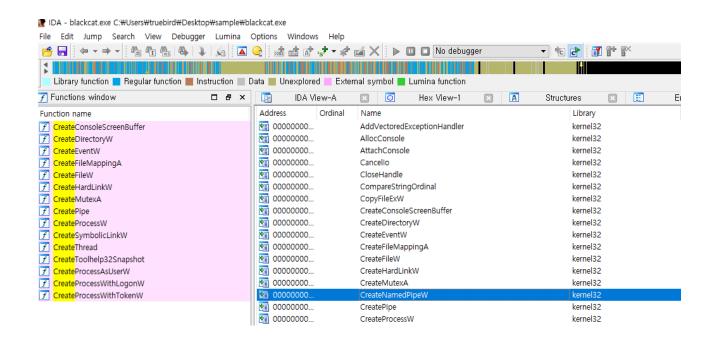
- ▶ BlackCat은 Access Token 값이 입력 되었을 때 악성 행위를 수행한다.
- ▶ AccessToken의 경우 공개된 것을 사용 했고 Access Token을 입력하게 되면 악성 행위가 시작 된다.





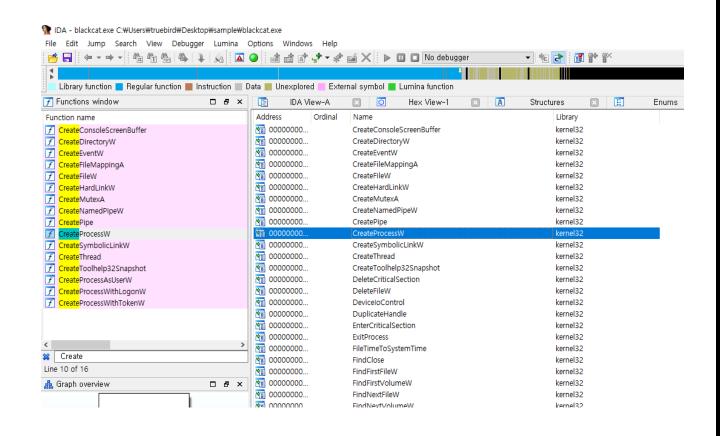
▶레지스트리 경로 '₩HKEY_LOCAL_MACHINE₩SYSTEM₩Cur rentControlSet₩Services ₩LanmanServer₩Parameters'에서 MaxMpxCt(네트워크 최대 연결수) 값을 65535로 설정한다.





▶사용자의 프로세스 ID를 기반으로 CreateNamedPipeW 함수를 이용하여 Pipe 를 생성한다.





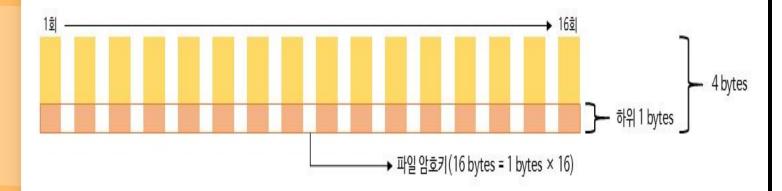
► CreateProcessW를 통해서 사용자의 UUID 값을 추출 하는 것을 볼 수 있다.



III RECOVER-uhwuvzu-FILES - Windows 메모장 _ 🗆 파일(F) 편집(E) 서식(O) 보기(V) 도움말(H) >> What happened? Important files on your network was ENCRYPTED and now they have "uhwuvzu" extension. In order to recover your files you need to follow instructions below. >> Sensitive Data Sensitive data on your network was DOWNLOADED. If you DON'T WANT your sensitive data to be PUBLISHED you have to act quickly. Data includes: - Accounting; - Finance: - Confidential data; Projects; - Blueprints; - Database; - Contracts and agreements; - Personal data; - Reports; - And more... Samples are available on your personal web page linked below. DO NOT MODIFY ENCRYPTED FILES YOURSELF. DO NOT USE THIRD PARTY SOFTWARE TO RESTORE YOUR DATA. YOU MAY DAMAGE YOUR FILES, IT WILL RESULT IN PERMANENT DATA LOSS. RECOVER-uhwuvzu-FILES - Windows 메모장 >> What should I do next? RECOVER-uhwuvzu-FILES . 1) Download and install Tor Browser from: https://torproject.org/ 2) Navigate to: http://macp5jnjsxlh2dccflut3utoch4773jq2pbl6mgs3rjhyzunydonkqyd. //zKLkHrr0eAfT%2FqC4DHiMP3UpNYQkMwAOT88H2%2BmlkWCO5xS2ZElpCLc\

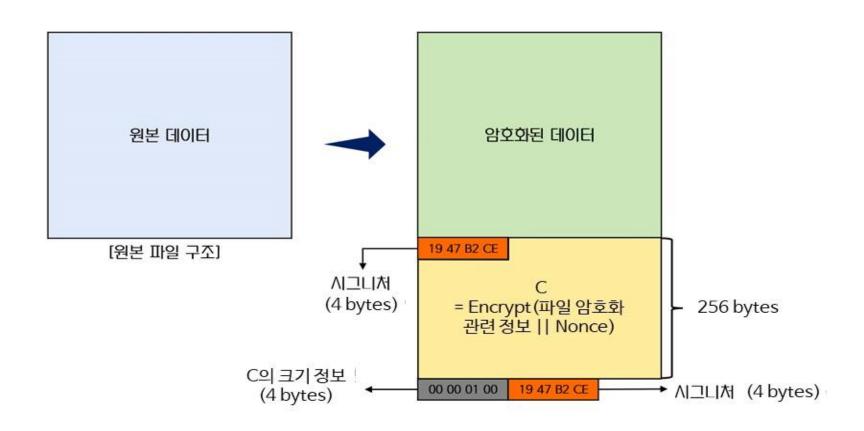
▶ BlackCat 랜섬웨어는 암호화 대상 파일이 존재하는 폴더마다 'RECOVER-uhwuvzu-FILES.txt' 라는 랜섬노트를 생성한다. 해당 파일에는 암호화된 데이터 종류, 공격자의 Tor 사이트 주소 등의 정보가 포함되어 있다.





▶4 bytes 크기의 난수를 16개를 생성하고, 각 난수의 하위 1 bytes만 파일 암호키로 사용한다





4.The End





