# TTP Detail – T1132.001

## TTP Information

Name: Standard Encoding

Description: Adversaries may encode data with a standard data encoding system to make the content of command and control traffic more difficult to detect. Command and control (C2) information can be encoded using a standard data encoding system that adheres to existing protocol specifications. Common data encoding schemes include ASCII, Unicode, hexadecimal, Base64, and MIME.(Citation: Wikipedia Binary-to-text Encoding)(Citation: Wikipedia Character Encoding) Some data encoding systems may also result in data compression, such as gzip.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Kill Chain Phases

**•** mitre-attack: command-and-control

## Malware

* ADVSTORESHELL
* Astaroth
* AutoIt backdoor
* BADNEWS
* BLINDINGCAN
* BS2005
* BabyShark
* Backdoor.Oldrea
* Bisonal
* Bumblebee
* CORESHELL
* Carbanak
* ChChes
* Chaes
* CharmPower
* Cobalt Strike
* Cobian RAT
* CreepySnail
* DarkWatchman
* Daserf
* Denis
* Dipsind
* DnsSystem
* Ebury
* Elise
* Emotet
* Felismus
* Flagpro
* Fysbis
* GLASSTOKEN
* Gomir
* Gootloader
* GrimAgent
* HOPLIGHT
* Helminth
* Ixeshe
* JHUHUGIT
* KONNI
* Kapeka
* Kazuar
* Kessel
* Kevin
* Latrodectus
* LockBit 3.0
* LunarWeb
* Machete
* Mafalda
* Mango
* Manjusaka
* MechaFlounder
* Mis-Type
* Misdat
* Mongall
* More\_eggs
* Mori
* OSX\_OCEANLOTUS.D
* Octopus
* Okrum
* OopsIE
* POWERSTATS
* POWRUNER
* PULSECHECK
* Pikabot
* PingPull
* Pisloader
* PowerShower
* Prikormka
* QUADAGENT
* QUIETCANARY
* QakBot
* RDAT
* Ramsay
* Revenge RAT
* RogueRobin
* RotaJakiro
* S-Type
* SLIGHTPULSE
* SMOKEDHAM
* STARWHALE
* STEADYPULSE
* SUNBURST
* Saint Bot
* Samurai
* Sardonic
* SeaDuke
* SideTwist
* Solar
* Spark
* SpeakUp
* Squirrelwaffle
* StrelaStealer
* Stuxnet
* SysUpdate
* TAMECAT
* Torisma
* TrickBot
* Troll Stealer
* Valak
* WARPWIRE
* WIREFIRE
* WellMess
* Zebrocy
* down\_new
* gh0st RAT
* njRAT
* xCaon

## Tools

* Sliver

## APTs (Intrusion Sets)

* APT19
* APT33
* APT42
* BRONZE BUTLER
* HAFNIUM
* Lazarus Group
* MuddyWater
* Patchwork
* Sandworm Team
* TA551
* Tropic Trooper