# CVE Detail – CVE-2022-31162

Slack Morphism is an async client library for Rust. Prior to 0.41.0, it was possible for Slack OAuth client information to leak in application debug logs. Stricter and more secure debug formatting was introduced in v0.41.0 for OAuth secret types to reduce the possibility of printing sensitive information in application logs. As a workaround, do not print/output requests and responses for OAuth and client configurations in logs.

## Threat-Mapped Scoring

Score: 3.0

Priority: P2 - Serious (High)

## EPSS

EPSS Score: N/A

Percentile: 0.58099

## CVSS Scoring

CVSS v3.1 Score: 7.5

Severity: HIGH

## Mapped CWE(s)

* CWE-1258: Exposure of Sensitive System Information Due to Uncleared Debug Information
* CWE-200: Exposure of Sensitive Information to an Unauthorized Actor
* CWE-212: Improper Removal of Sensitive Information Before Storage or Transfer

## CAPEC(s)

* CAPEC-116: Excavation
* CAPEC-13: Subverting Environment Variable Values
* CAPEC-150: Collect Data from Common Resource Locations
* CAPEC-168: Windows ::DATA Alternate Data Stream
* CAPEC-169: Footprinting
* CAPEC-204: Lifting Sensitive Data Embedded in Cache
* CAPEC-22: Exploiting Trust in Client
* CAPEC-224: Fingerprinting
* CAPEC-285: ICMP Echo Request Ping
* CAPEC-287: TCP SYN Scan
* CAPEC-290: Enumerate Mail Exchange (MX) Records
* CAPEC-291: DNS Zone Transfers
* CAPEC-292: Host Discovery
* CAPEC-293: Traceroute Route Enumeration
* CAPEC-294: ICMP Address Mask Request
* CAPEC-295: Timestamp Request
* CAPEC-296: ICMP Information Request
* CAPEC-297: TCP ACK Ping
* CAPEC-298: UDP Ping
* CAPEC-299: TCP SYN Ping
* CAPEC-300: Port Scanning
* CAPEC-301: TCP Connect Scan
* CAPEC-302: TCP FIN Scan
* CAPEC-303: TCP Xmas Scan
* CAPEC-304: TCP Null Scan
* CAPEC-305: TCP ACK Scan
* CAPEC-306: TCP Window Scan
* CAPEC-307: TCP RPC Scan
* CAPEC-308: UDP Scan
* CAPEC-309: Network Topology Mapping
* CAPEC-310: Scanning for Vulnerable Software
* CAPEC-312: Active OS Fingerprinting
* CAPEC-313: Passive OS Fingerprinting
* CAPEC-317: IP ID Sequencing Probe
* CAPEC-318: IP 'ID' Echoed Byte-Order Probe
* CAPEC-319: IP (DF) 'Don't Fragment Bit' Echoing Probe
* CAPEC-320: TCP Timestamp Probe
* CAPEC-321: TCP Sequence Number Probe
* CAPEC-322: TCP (ISN) Greatest Common Divisor Probe
* CAPEC-323: TCP (ISN) Counter Rate Probe
* CAPEC-324: TCP (ISN) Sequence Predictability Probe
* CAPEC-325: TCP Congestion Control Flag (ECN) Probe
* CAPEC-326: TCP Initial Window Size Probe
* CAPEC-327: TCP Options Probe
* CAPEC-328: TCP 'RST' Flag Checksum Probe
* CAPEC-329: ICMP Error Message Quoting Probe
* CAPEC-330: ICMP Error Message Echoing Integrity Probe
* CAPEC-37: Retrieve Embedded Sensitive Data
* CAPEC-472: Browser Fingerprinting
* CAPEC-497: File Discovery
* CAPEC-508: Shoulder Surfing
* CAPEC-545: Pull Data from System Resources
* CAPEC-573: Process Footprinting
* CAPEC-574: Services Footprinting
* CAPEC-575: Account Footprinting
* CAPEC-576: Group Permission Footprinting
* CAPEC-577: Owner Footprinting
* CAPEC-59: Session Credential Falsification through Prediction
* CAPEC-60: Reusing Session IDs (aka Session Replay)
* CAPEC-616: Establish Rogue Location
* CAPEC-643: Identify Shared Files/Directories on System
* CAPEC-646: Peripheral Footprinting
* CAPEC-651: Eavesdropping
* CAPEC-79: Using Slashes in Alternate Encoding

## ATT&CK Techniques

* T1033: System Owner/User Discovery
* T1592: Gather Victim Host Information
* T1003: OS Credential Dumping
* T1602: Data from Configuration Repository
* T1574.007: Path Interception by PATH Environment Variable
* T1069: Permission Groups Discovery
* T1615: Group Policy Discovery
* T1036.005: Match Legitimate Resource Name or Location
* T1555.001: Keychain
* T1119: Automated Collection
* T1007: System Service Discovery
* T1530: Data from Cloud Storage
* T1135: Network Share Discovery
* T1120: Peripheral Device Discovery
* T1082: System Information Discovery
* T1005: Data from Local System
* T1555: Credentials from Password Stores
* T1217: Browser Information Discovery
* T1552.004: Private Keys
* T1574.006: Dynamic Linker Hijacking
* T1595: Active Scanning
* T1016: System Network Configuration Discovery
* T1087: Account Discovery
* T1083: File and Directory Discovery
* T1049: System Network Connections Discovery
* T1134.001: Token Impersonation/Theft
* T1057: Process Discovery
* T1562.003: Impair Command History Logging
* T1590: Gather Victim Network Information
* T1550.004: Web Session Cookie
* T1213: Data from Information Repositories
* T1111: Multi-Factor Authentication Interception
* T1018: Remote System Discovery
* T1046: Network Service Discovery
* T1124: System Time Discovery

## Used By (Actors/Tools)

* HDoor (malware)
* TrickBot (malware)
* cd00r (malware)
* PowerDuke (malware)
* EKANS (malware)
* BLINDINGCAN (malware)
* Ninja (malware)
* Pikabot (malware)
* RCSession (malware)
* Spark (malware)
* QuietSieve (malware)
* SynAck (malware)
* Bumblebee (malware)
* MURKYTOP (malware)
* AcidRain (malware)
* GRIFFON (malware)
* Amadey (malware)
* Proxysvc (malware)
* Orz (malware)
* Torisma (malware)
* NOKKI (malware)
* yty (malware)
* Backdoor.Oldrea (malware)
* Stuxnet (malware)
* RotaJakiro (malware)
* AvosLocker (malware)
* Get2 (malware)
* POWRUNER (malware)
* KOPILUWAK (malware)
* Chinoxy (malware)
* SharpStage (malware)
* COATHANGER (malware)
* Sardonic (malware)
* Smoke Loader (malware)
* HALFBAKED (malware)
* WindTail (malware)
* Misdat (malware)
* Linux Rabbit (malware)
* Emissary (malware)
* Exaramel for Linux (malware)
* KEYMARBLE (malware)
* BUBBLEWRAP (malware)
* HAWKBALL (malware)
* Ursnif (malware)
* ThreatNeedle (malware)
* RansomHub (malware)
* ZLib (malware)
* RedLeaves (malware)
* LITTLELAMB.WOOLTEA (malware)
* Felismus (malware)
* Zeus Panda (malware)
* GeminiDuke (malware)
* CARROTBAT (malware)
* Matryoshka (malware)
* FrameworkPOS (malware)
* GravityRAT (malware)
* Prestige (malware)
* Bankshot (malware)
* SharpDisco (malware)
* StrongPity (malware)
* HAPPYWORK (malware)
* xCaon (malware)
* PLAINTEE (malware)
* Pony (malware)
* WinMM (malware)
* Nebulae (malware)
* AuditCred (malware)
* UPSTYLE (malware)
* Kasidet (malware)
* OceanSalt (malware)
* Playcrypt (malware)
* Brave Prince (malware)
* RainyDay (malware)
* AppleSeed (malware)
* macOS.OSAMiner (malware)
* NETWIRE (malware)
* TinyTurla (malware)
* PyDCrypt (malware)
* J-magic (malware)
* iKitten (malware)
* OLDBAIT (malware)
* Bad Rabbit (malware)
* CosmicDuke (malware)
* EnvyScout (malware)
* SslMM (malware)
* IMAPLoader (malware)
* GreyEnergy (malware)
* Gomir (malware)
* Aria-body (malware)
* Emotet (malware)
* Olympic Destroyer (malware)
* BOLDMOVE (malware)
* Crimson (malware)
* Tomiris (malware)
* TEARDROP (malware)
* DUSTTRAP (malware)
* Turian (malware)
* BADHATCH (malware)
* Machete (malware)
* PowerLess (malware)
* Action RAT (malware)
* Avenger (malware)
* DUSTPAN (malware)
* Prikormka (malware)
* Gootloader (malware)
* PingPull (malware)
* WellMess (malware)
* Dacls (malware)
* DropBook (malware)
* Woody RAT (malware)
* Mafalda (malware)
* KARAE (malware)
* Squirrelwaffle (malware)
* ELMER (malware)
* AuTo Stealer (malware)
* ShrinkLocker (malware)
* Hildegard (malware)
* Agent.btz (malware)
* SLOWDRIFT (malware)
* SHUTTERSPEED (malware)
* SombRAT (malware)
* ODAgent (malware)
* BlackByte 2.0 Ransomware (malware)
* FLASHFLOOD (malware)
* FlawedAmmyy (malware)
* Snip3 (malware)
* FYAnti (malware)
* Rifdoor (malware)
* LoFiSe (malware)
* HOPLIGHT (malware)
* Cuckoo Stealer (malware)
* MobileOrder (malware)
* WastedLocker (malware)
* InvisiMole (malware)
* P.A.S. Webshell (malware)
* QUIETEXIT (malware)
* Naid (malware)
* Apostle (malware)
* Volgmer (malware)
* WINERACK (malware)
* WhisperGate (malware)
* FruitFly (malware)
* ZeroT (malware)
* AcidPour (malware)
* RDAT (malware)
* Skidmap (malware)
* Okrum (malware)
* TRANSLATEXT (malware)
* Bonadan (malware)
* Line Dancer (malware)
* Neoichor (malware)
* Conti (malware)
* Raspberry Robin (malware)
* Mispadu (malware)
* Megazord (malware)
* Diavol (malware)
* Raindrop (malware)
* Doki (malware)
* Siloscape (malware)
* BlackCat (malware)
* Fysbis (malware)
* IcedID (malware)
* VERMIN (malware)
* UBoatRAT (malware)
* Nightdoor (malware)
* MarkiRAT (malware)
* PowerShower (malware)
* Kazuar (malware)
* NavRAT (malware)
* DarkComet (malware)
* NETEAGLE (malware)
* POORAIM (malware)
* CHIMNEYSWEEP (malware)
* Ragnar Locker (malware)
* FatDuke (malware)
* Lucifer (malware)
* BlackEnergy (malware)
* zwShell (malware)
* DCSrv (malware)
* DRATzarus (malware)
* Rising Sun (malware)
* NotPetya (malware)
* ShimRat (malware)
* Chrommme (malware)
* BADFLICK (malware)
* ObliqueRAT (malware)
* SHOTPUT (malware)
* Avaddon (malware)
* Conficker (malware)
* SocGholish (malware)
* Flagpro (malware)
* SpicyOmelette (malware)
* XAgentOSX (malware)
* Green Lambert (malware)
* China Chopper (malware)
* LightSpy (malware)
* PUNCHBUGGY (malware)
* GoldMax (malware)
* HELLOKITTY (malware)
* Cheerscrypt (malware)
* KeyBoy (malware)
* MiniDuke (malware)
* HyperBro (malware)
* Anchor (malware)
* Pteranodon (malware)
* DarkTortilla (malware)
* ROKRAT (malware)
* CORESHELL (malware)
* RunningRAT (malware)
* Babuk (malware)
* Exbyte (malware)
* DarkWatchman (malware)
* Dyre (malware)
* BlackMould (malware)
* Javali (malware)
* PACEMAKER (malware)
* LunarLoader (malware)
* BBSRAT (malware)
* PlugX (malware)
* Reaver (malware)
* Bisonal (malware)
* MultiLayer Wiper (malware)
* S-Type (malware)
* Lumma Stealer (malware)
* DustySky (malware)
* Duqu (malware)
* Remsec (malware)
* Industroyer2 (malware)
* Sykipot (malware)
* Explosive (malware)
* Xbash (malware)
* Rover (malware)
* Epic (malware)
* LightNeuron (malware)
* Peppy (malware)
* KEYPLUG (malware)
* Cuba (malware)
* DEATHRANSOM (malware)
* Clambling (malware)
* Akira (malware)
* DarkGate (malware)
* Mongall (malware)
* NanHaiShu (malware)
* LockBit 3.0 (malware)
* SVCReady (malware)
* ThiefQuest (malware)
* FoggyWeb (malware)
* NGLite (malware)
* Carbanak (malware)
* XTunnel (malware)
* Hydraq (malware)
* SHARPSTATS (malware)
* Ferocious (malware)
* HOMEFRY (malware)
* CreepyDrive (malware)
* Caterpillar WebShell (malware)
* Netwalker (malware)
* Elise (malware)
* USBferry (malware)
* WannaCry (malware)
* Gazer (malware)
* TSCookie (malware)
* Latrodectus (malware)
* Saint Bot (malware)
* Pay2Key (malware)
* Chaes (malware)
* CharmPower (malware)
* TYPEFRAME (malware)
* 3PARA RAT (malware)
* Bundlore (malware)
* P8RAT (malware)
* EVILNUM (malware)
* KOMPROGO (malware)
* SMOKEDHAM (malware)
* QUADAGENT (malware)
* Sagerunex (malware)
* TAINTEDSCRIBE (malware)
* Sys10 (malware)
* Royal (malware)
* BendyBear (malware)
* Uroburos (malware)
* Metamorfo (malware)
* Spica (malware)
* Trojan.Karagany (malware)
* Bandook (malware)
* PipeMon (malware)
* MagicRAT (malware)
* TINYTYPHON (malware)
* KONNI (malware)
* T9000 (malware)
* RAPIDPULSE (malware)
* gh0st RAT (malware)
* Shamoon (malware)
* DnsSystem (malware)
* MoleNet (malware)
* CORALDECK (malware)
* JHUHUGIT (malware)
* SPACESHIP (malware)
* BLUELIGHT (malware)
* KGH\_SPY (malware)
* down\_new (malware)
* Ixeshe (malware)
* Micropsia (malware)
* Kerrdown (malware)
* RARSTONE (malware)
* BPFDoor (malware)
* Black Basta (malware)
* ZeroCleare (malware)
* Catchamas (malware)
* StoneDrill (malware)
* OopsIE (malware)
* 4H RAT (malware)
* RogueRobin (malware)
* Attor (malware)
* LitePower (malware)
* MegaCortex (malware)
* StreamEx (malware)
* BoxCaon (malware)
* NightClub (malware)
* Crutch (malware)
* Akira \_v2 (malware)
* SDBbot (malware)
* Mosquito (malware)
* RTM (malware)
* QUIETCANARY (malware)
* Derusbi (malware)
* BlackByte Ransomware (malware)
* SodaMaster (malware)
* Hikit (malware)
* StrelaStealer (malware)
* Grandoreiro (malware)
* WellMail (malware)
* LiteDuke (malware)
* Starloader (malware)
* RawPOS (malware)
* Sibot (malware)
* ZxxZ (malware)
* Tarrask (malware)
* GoBear (malware)
* WINDSHIELD (malware)
* Drovorub (malware)
* Shark (malware)
* Bazar (malware)
* Kobalos (malware)
* BadPatch (malware)
* MESSAGETAP (malware)
* RATANKBA (malware)
* SUGARDUMP (malware)
* XLoader (malware)
* SOUNDBITE (malware)
* BADCALL (malware)
* MoonWind (malware)
* Ryuk (malware)
* Cryptoistic (malware)
* HermeticWiper (malware)
* Pysa (malware)
* Final1stspy (malware)
* MgBot (malware)
* ccf32 (malware)
* Kapeka (malware)
* LockBit 2.0 (malware)
* Zebrocy (malware)
* Pandora (malware)
* FinFisher (malware)
* SpeakUp (malware)
* LunarMail (malware)
* CrossRAT (malware)
* OwaAuth (malware)
* Cadelspy (malware)
* Cobalt Strike (malware)
* SampleCheck5000 (malware)
* SUNBURST (malware)
* EvilBunny (malware)
* Wingbird (malware)
* HotCroissant (malware)
* ServHelper (malware)
* Unknown Logger (malware)
* REvil (malware)
* Valak (malware)
* Samurai (malware)
* PinchDuke (malware)
* Milan (malware)
* USBStealer (malware)
* OSX\_OCEANLOTUS.D (malware)
* OilBooster (malware)
* OnionDuke (malware)
* Taidoor (malware)
* SUPERNOVA (malware)
* Kivars (malware)
* CaddyWiper (malware)
* Cyclops Blink (malware)
* PoisonIvy (malware)
* Seasalt (malware)
* NanoCore (malware)
* TajMahal (malware)
* PLEAD (malware)
* Raccoon Stealer (malware)
* IPsec Helper (malware)
* Daserf (malware)
* GoldFinder (malware)
* Carbon (malware)
* Cardinal RAT (malware)
* DanBot (malware)
* BISCUIT (malware)
* Calisto (malware)
* Solar (malware)
* Pisloader (malware)
* GoldenSpy (malware)
* Gold Dragon (malware)
* RGDoor (malware)
* Ramsay (malware)
* Carberp (malware)
* NKAbuse (malware)
* Pillowmint (malware)
* Revenge RAT (malware)
* MacMa (malware)
* FunnyDream (malware)
* ROADSWEEP (malware)
* SUNSPOT (malware)
* More\_eggs (malware)
* SysUpdate (malware)
* OutSteel (malware)
* BackConfig (malware)
* PowGoop (malware)
* Kwampirs (malware)
* BoomBox (malware)
* DEADEYE (malware)
* PUNCHTRACK (malware)
* Proton (malware)
* Mango (malware)
* InnaputRAT (malware)
* Kessel (malware)
* GrimAgent (malware)
* LookBack (malware)
* Clop (malware)
* YAHOYAH (malware)
* Lokibot (malware)
* Egregor (malware)
* PoetRAT (malware)
* CHOPSTICK (malware)
* StealBit (malware)
* FELIXROOT (malware)
* ZxShell (malware)
* SLIGHTPULSE (malware)
* NDiskMonitor (malware)
* DDKONG (malware)
* Penquin (malware)
* BabyShark (malware)
* Cannon (malware)
* CreepySnail (malware)
* build\_downer (malware)
* Winnti for Windows (malware)
* Troll Stealer (malware)
* BLACKCOFFEE (malware)
* Ebury (malware)
* Kinsing (malware)
* Meteor (malware)
* njRAT (malware)
* ZIPLINE (malware)
* Maze (malware)
* ComRAT (malware)
* TURNEDUP (malware)
* ChChes (malware)
* PowerStallion (malware)
* ANDROMEDA (malware)
* Manjusaka (malware)
* IceApple (malware)
* JPIN (malware)
* metaMain (malware)
* SideTwist (malware)
* KOCTOPUS (malware)
* MechaFlounder (malware)
* Psylo (malware)
* Heyoka Backdoor (malware)
* HTTPBrowser (malware)
* Mis-Type (malware)
* LunarWeb (malware)
* XCSSET (malware)
* Octopus (malware)
* KillDisk (malware)
* AppleJeus (malware)
* SoreFang (malware)
* STARWHALE (malware)
* MirageFox (malware)
* Industroyer (malware)
* DownPaper (malware)
* Socksbot (malware)
* Pcexter (malware)
* CozyCar (malware)
* Kevin (malware)
* Agent Tesla (malware)
* Pasam (malware)
* POWERSTATS (malware)
* BADNEWS (malware)
* Linfo (malware)
* Goopy (malware)
* ShadowPad (malware)
* Remexi (malware)
* Astaroth (malware)
* QakBot (malware)
* SYSCON (malware)
* CookieMiner (malware)
* Gelsemium (malware)
* jRAT (malware)
* Helminth (malware)
* Dridex (malware)
* Komplex (malware)
* OSX/Shlayer (malware)
* Denis (malware)
* INC Ransomware (malware)
* DEADWOOD (malware)
* Waterbear (malware)
* FIVEHANDS (malware)
* Comnie (malware)
* AutoIt backdoor (malware)
* OSInfo (malware)
* Lizar (malware)
* Dtrack (malware)
* SLOWPULSE (malware)
* LoudMiner (malware)
* Azorult (malware)
* BitPaymer (malware)
* BACKSPACE (malware)
* Zox (malware)
* UPPERCUT (malware)
* ADVSTORESHELL (malware)
* StrifeWater (malware)
* HiddenWasp (malware)
* WarzoneRAT (malware)
* SLOTHFULMEDIA (malware)
* FALLCHILL (malware)
* Small Sieve (malware)
* HermeticWizard (malware)
* Net (tool)
* RemoteUtilities (tool)
* Covenant (tool)
* NPPSPY (tool)
* BloodHound (tool)
* ShimRatReporter (tool)
* Sliver (tool)
* SILENTTRINITY (tool)
* PowerSploit (tool)
* Pacu (tool)
* ipconfig (tool)
* AADInternals (tool)
* Tasklist (tool)
* Arp (tool)
* Empire (tool)
* ifconfig (tool)
* FRP (tool)
* dsquery (tool)
* PcShare (tool)
* netstat (tool)
* PoshC2 (tool)
* Rclone (tool)
* AsyncRAT (tool)
* ROADTools (tool)
* Brute Ratel C4 (tool)
* Peirates (tool)
* Remcos (tool)
* Systeminfo (tool)
* Out1 (tool)
* Imminent Monitor (tool)
* Forfiles (tool)
* MCMD (tool)
* Nltest (tool)
* Donut (tool)
* Mimikatz (tool)
* IronNetInjector (tool)
* nbtstat (tool)
* NBTscan (tool)
* LaZagne (tool)
* Ping (tool)
* cmd (tool)
* route (tool)
* esentutl (tool)
* CrackMapExec (tool)
* Koadic (tool)
* Pupy (tool)
* Mythic (tool)
* QuasarRAT (tool)
* AdFind (tool)
* Wevtutil (tool)
* Indrik Spider (intrusion-set)
* C0027 (campaign)
* LuminousMoth (intrusion-set)
* Operation Wocao (campaign)
* Wizard Spider (intrusion-set)
* FIN7 (intrusion-set)
* Velvet Ant (intrusion-set)
* APT41 DUST (campaign)
* WIRTE (intrusion-set)
* FunnyDream (campaign)
* ArcaneDoor (campaign)
* Dragonfly (intrusion-set)
* OilRig (intrusion-set)
* Equation (intrusion-set)
* Fox Kitten (intrusion-set)
* SolarWinds Compromise (campaign)
* Lazarus Group (intrusion-set)
* Aquatic Panda (intrusion-set)
* Daggerfly (intrusion-set)
* TA505 (intrusion-set)
* Inception (intrusion-set)
* admin@338 (intrusion-set)
* BlackTech (intrusion-set)
* APT42 (intrusion-set)
* Malteiro (intrusion-set)
* Earth Lusca (intrusion-set)
* Operation CuckooBees (campaign)
* Juicy Mix (campaign)
* Play (intrusion-set)
* Sandworm Team (intrusion-set)
* Turla (intrusion-set)
* Suckfly (intrusion-set)
* Ember Bear (intrusion-set)
* CostaRicto (campaign)
* TeamTNT (intrusion-set)
* FIN6 (intrusion-set)
* Silence (intrusion-set)
* Patchwork (intrusion-set)
* APT28 (intrusion-set)
* Aoqin Dragon (intrusion-set)
* HEXANE (intrusion-set)
* Darkhotel (intrusion-set)
* Ke3chang (intrusion-set)
* Volt Typhoon (intrusion-set)
* Leafminer (intrusion-set)
* Magic Hound (intrusion-set)
* APT29 (intrusion-set)
* Operation Honeybee (campaign)
* 2016 Ukraine Electric Power Attack (campaign)
* Cobalt Group (intrusion-set)
* Andariel (intrusion-set)
* HAFNIUM (intrusion-set)
* APT39 (intrusion-set)
* MuddyWater (intrusion-set)
* APT38 (intrusion-set)
* Transparent Tribe (intrusion-set)
* APT32 (intrusion-set)
* BRONZE BUTLER (intrusion-set)
* APT5 (intrusion-set)
* BackdoorDiplomacy (intrusion-set)
* Kimsuky (intrusion-set)
* Leviathan (intrusion-set)
* Storm-1811 (intrusion-set)
* Akira (intrusion-set)
* Mustang Panda (intrusion-set)
* LAPSUS$ (intrusion-set)
* RedDelta Modified PlugX Infection Chain Operations (campaign)
* Chimera (intrusion-set)
* TA2541 (intrusion-set)
* ToddyCat (intrusion-set)
* menuPass (intrusion-set)
* Tropic Trooper (intrusion-set)
* Mustard Tempest (intrusion-set)
* 2015 Ukraine Electric Power Attack (campaign)
* C0018 (campaign)
* APT19 (intrusion-set)
* Moses Staff (intrusion-set)
* Operation Dream Job (campaign)
* Molerats (intrusion-set)
* Stealth Falcon (intrusion-set)
* DarkVishnya (intrusion-set)
* APT37 (intrusion-set)
* APT41 (intrusion-set)
* INC Ransom (intrusion-set)
* FIN13 (intrusion-set)
* GALLIUM (intrusion-set)
* FIN10 (intrusion-set)
* C0015 (campaign)
* Winnti Group (intrusion-set)
* FIN8 (intrusion-set)
* Rocke (intrusion-set)
* Scattered Spider (intrusion-set)
* CURIUM (intrusion-set)
* Windigo (intrusion-set)
* Blue Mockingbird (intrusion-set)
* RedCurl (intrusion-set)
* Frankenstein (campaign)
* Sidewinder (intrusion-set)
* Outer Space (campaign)
* Higaisa (intrusion-set)
* Windshift (intrusion-set)
* Confucius (intrusion-set)
* BlackByte (intrusion-set)
* Threat Group-3390 (intrusion-set)
* Tonto Team (intrusion-set)
* Gamaredon Group (intrusion-set)
* Night Dragon (campaign)
* Agrius (intrusion-set)
* Sea Turtle (intrusion-set)
* Leviathan Australian Intrusions (campaign)
* Moonstone Sleet (intrusion-set)
* ShadowRay (campaign)
* Axiom (intrusion-set)
* Dark Caracal (intrusion-set)
* APT3 (intrusion-set)
* Operation MidnightEclipse (campaign)
* C0032 (campaign)
* ZIRCONIUM (intrusion-set)
* APT1 (intrusion-set)
* Naikon (intrusion-set)
* Sowbug (intrusion-set)
* Machete (intrusion-set)
* HomeLand Justice (campaign)
* C0017 (campaign)
* FIN5 (intrusion-set)
* Winter Vivern (intrusion-set)
* SideCopy (intrusion-set)
* APT33 (intrusion-set)
* Operation Sharpshooter (campaign)
* Cutting Edge (campaign)
* Lotus Blossom (intrusion-set)
* Evilnum (intrusion-set)
* Whitefly (intrusion-set)
* APT18 (intrusion-set)
* Carbanak (intrusion-set)
* J-magic Campaign (campaign)
* Triton Safety Instrumented System Attack (campaign)
* Deep Panda (intrusion-set)
* KV Botnet Activity (campaign)
* The White Company (intrusion-set)
* Poseidon Group (intrusion-set)
* Star Blizzard (intrusion-set)
* C0026 (campaign)
* PROMETHIUM (intrusion-set)
* Ferocious Kitten (intrusion-set)

## Affected Products

* cpe:2.3:a:slack\_morphism\_project:slack\_morphism:\*:\*:\*:\*:\*:rust:\*:\*