# CVE Detail – CVE-2021-3116

before\_upstream\_connection in AuthPlugin in http/proxy/auth.py in proxy.py before 2.3.1 accepts incorrect Proxy-Authorization header data because of a boolean confusion (and versus or).

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## EPSS

EPSS Score: N/A

Percentile: 0.60609

## CVSS Scoring

CVSS v3.1 Score: 7.5

Severity: HIGH

## Mapped CWE(s)

* CWE-697: Incorrect Comparison

## CAPEC(s)

* CAPEC-10: Buffer Overflow via Environment Variables
* CAPEC-120: Double Encoding
* CAPEC-14: Client-side Injection-induced Buffer Overflow
* CAPEC-15: Command Delimiters
* CAPEC-182: Flash Injection
* CAPEC-24: Filter Failure through Buffer Overflow
* CAPEC-267: Leverage Alternate Encoding
* CAPEC-3: Using Leading 'Ghost' Character Sequences to Bypass Input Filters
* CAPEC-41: Using Meta-characters in E-mail Headers to Inject Malicious Payloads
* CAPEC-43: Exploiting Multiple Input Interpretation Layers
* CAPEC-44: Overflow Binary Resource File
* CAPEC-45: Buffer Overflow via Symbolic Links
* CAPEC-46: Overflow Variables and Tags
* CAPEC-47: Buffer Overflow via Parameter Expansion
* CAPEC-52: Embedding NULL Bytes
* CAPEC-53: Postfix, Null Terminate, and Backslash
* CAPEC-6: Argument Injection
* CAPEC-64: Using Slashes and URL Encoding Combined to Bypass Validation Logic
* CAPEC-67: String Format Overflow in syslog()
* CAPEC-7: Blind SQL Injection
* CAPEC-71: Using Unicode Encoding to Bypass Validation Logic
* CAPEC-73: User-Controlled Filename
* CAPEC-78: Using Escaped Slashes in Alternate Encoding
* CAPEC-79: Using Slashes in Alternate Encoding
* CAPEC-8: Buffer Overflow in an API Call
* CAPEC-80: Using UTF-8 Encoding to Bypass Validation Logic
* CAPEC-88: OS Command Injection
* CAPEC-9: Buffer Overflow in Local Command-Line Utilities
* CAPEC-92: Forced Integer Overflow

## ATT&CK Techniques

* T1027: Obfuscated Files or Information

## Used By (Actors/Tools)

* TrickBot (malware)
* EKANS (malware)
* SynAck (malware)
* Bumblebee (malware)
* Amadey (malware)
* Orz (malware)
* NOKKI (malware)
* AvosLocker (malware)
* COATHANGER (malware)
* Sardonic (malware)
* Matryoshka (malware)
* Ecipekac (malware)
* AppleSeed (malware)
* BUSHWALK (malware)
* NETWIRE (malware)
* OLDBAIT (malware)
* TEARDROP (malware)
* Turian (malware)
* Action RAT (malware)
* Gootloader (malware)
* PolyglotDuke (malware)
* SombRAT (malware)
* Snip3 (malware)
* RegDuke (malware)
* InvisiMole (malware)
* P.A.S. Webshell (malware)
* Conti (malware)
* Raspberry Robin (malware)
* Diavol (malware)
* Siloscape (malware)
* Kazuar (malware)
* CHIMNEYSWEEP (malware)
* FatDuke (malware)
* DRATzarus (malware)
* SHOTPUT (malware)
* Avaddon (malware)
* Conficker (malware)
* Flagpro (malware)
* Green Lambert (malware)
* ISMInjector (malware)
* PUNCHBUGGY (malware)
* POSHSPY (malware)
* MiniDuke (malware)
* Anchor (malware)
* DarkTortilla (malware)
* ROKRAT (malware)
* CORESHELL (malware)
* PlugX (malware)
* Lumma Stealer (malware)
* DustySky (malware)
* Epic (malware)
* Cuba (malware)
* Clambling (malware)
* DarkGate (malware)
* SVCReady (malware)
* Carbanak (malware)
* XTunnel (malware)
* Hydraq (malware)
* Saint Bot (malware)
* Bundlore (malware)
* Trojan.Karagany (malware)
* Shamoon (malware)
* BPFDoor (malware)
* OopsIE (malware)
* StreamEx (malware)
* BoxCaon (malware)
* NightClub (malware)
* SDBbot (malware)
* RTM (malware)
* SodaMaster (malware)
* StrelaStealer (malware)
* Drovorub (malware)
* Kobalos (malware)
* Ryuk (malware)
* Final1stspy (malware)
* FinFisher (malware)
* Cobalt Strike (malware)
* SUNBURST (malware)
* Valak (malware)
* Samurai (malware)
* PoisonIvy (malware)
* NanoCore (malware)
* TajMahal (malware)
* Daserf (malware)
* Carbon (malware)
* Pisloader (malware)
* Ramsay (malware)
* Pillowmint (malware)
* SUNSPOT (malware)
* BoomBox (malware)
* PUNCHTRACK (malware)
* InnaputRAT (malware)
* GrimAgent (malware)
* Lokibot (malware)
* PoetRAT (malware)
* CoinTicker (malware)
* Ebury (malware)
* Maze (malware)
* ComRAT (malware)
* PowerStallion (malware)
* JPIN (malware)
* HTTPBrowser (malware)
* KillDisk (malware)
* AppleJeus (malware)
* SoreFang (malware)
* Industroyer (malware)
* Agent Tesla (malware)
* ECCENTRICBANDWAGON (malware)
* ShadowPad (malware)
* QakBot (malware)
* Hancitor (malware)
* jRAT (malware)
* Dridex (malware)
* Denis (malware)
* Comnie (malware)
* H1N1 (malware)
* SLOWPULSE (malware)
* ADVSTORESHELL (malware)
* Small Sieve (malware)
* ShimRatReporter (tool)
* Sliver (tool)
* CARROTBALL (tool)
* Brute Ratel C4 (tool)
* Remcos (tool)
* Out1 (tool)
* Imminent Monitor (tool)
* MCMD (tool)
* Earth Lusca (intrusion-set)
* Sandworm Team (intrusion-set)
* Ke3chang (intrusion-set)
* 2016 Ukraine Electric Power Attack (campaign)
* BackdoorDiplomacy (intrusion-set)
* Kimsuky (intrusion-set)
* Mustang Panda (intrusion-set)
* APT37 (intrusion-set)
* APT41 (intrusion-set)
* GALLIUM (intrusion-set)
* C0015 (campaign)
* Rocke (intrusion-set)
* RedCurl (intrusion-set)
* Windshift (intrusion-set)
* Gamaredon Group (intrusion-set)
* Moonstone Sleet (intrusion-set)
* APT3 (intrusion-set)
* C0017 (campaign)
* APT-C-36 (intrusion-set)
* Gallmaker (intrusion-set)
* BlackOasis (intrusion-set)

## Affected Products

* cpe:2.3:a:proxy.py\_project:proxy.py:\*:\*:\*:\*:\*:\*:\*:\*