

# SpecterOps Blog

Filters



Q Search Blog

```
└─$ ./ghostsurf -t https://passwordstate.ludus.domain -dkr | tee output.txt

NTLM relay browser session hijacking

[+] Impacket Library Installation Path: /home/kali/ghostsurf/venv/lib/python3.13/site-packages/impacket
[*] Target: https://passwordstate.ludus.domain
[*] SOCKS proxy started. Listening on 127.0.0.1:1080
[*] HTTP Socks Plugin loaded..
[*] HTTPS Socks Plugin loaded..
[*] SOCKS proxy: 127.0.0.1:1080
[*] Kernel-mode auth workaround ENABLED
[*] Keep-relaying mode ENABLED (will reload targets after success)
[*] Setting up SMB Server on port 445
[*] Setting up HTTP Server on port 80
  * Serving Flask app 'lib.relay.servers.sockserver'
  * Debug mode: off
[*] Setting up WCF Server on port 9389
[*] Setting up RAW Server on port 6666

[*] Servers started, waiting for connections
Type help for list of commands
```

RESEARCH & TRADECRAFT

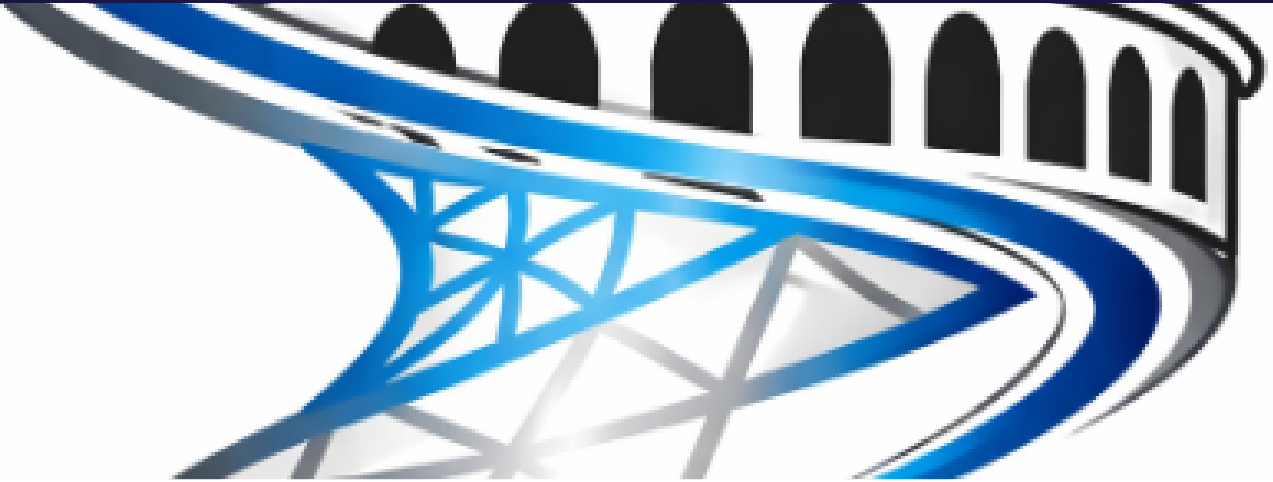
## ghostsurf: From NTLM Relay to Browser Session Hijacking

TL;DR: ntlmrelay's SOCKS proxy works great for SMB and MSSQL but fails when you try to browse a web application...

By: Allen DeMoura

17 mins





RESEARCH & TRADECRAFT

^ Saved Queries

Auto-run selected query

```
1 MATCH p=(:jamf_Account)-[r]->(:jamf_Computer)
2 WHERE r.traversable
3 RETURN p
```

Tag Save Run

BLOODHOUND

## Expanding Attack Path Management to macOS Environments

Introduction Attack path management has historically focused on identity systems like Active Directory and Entra ID. That focus made sense....

By: Jared Atkinson

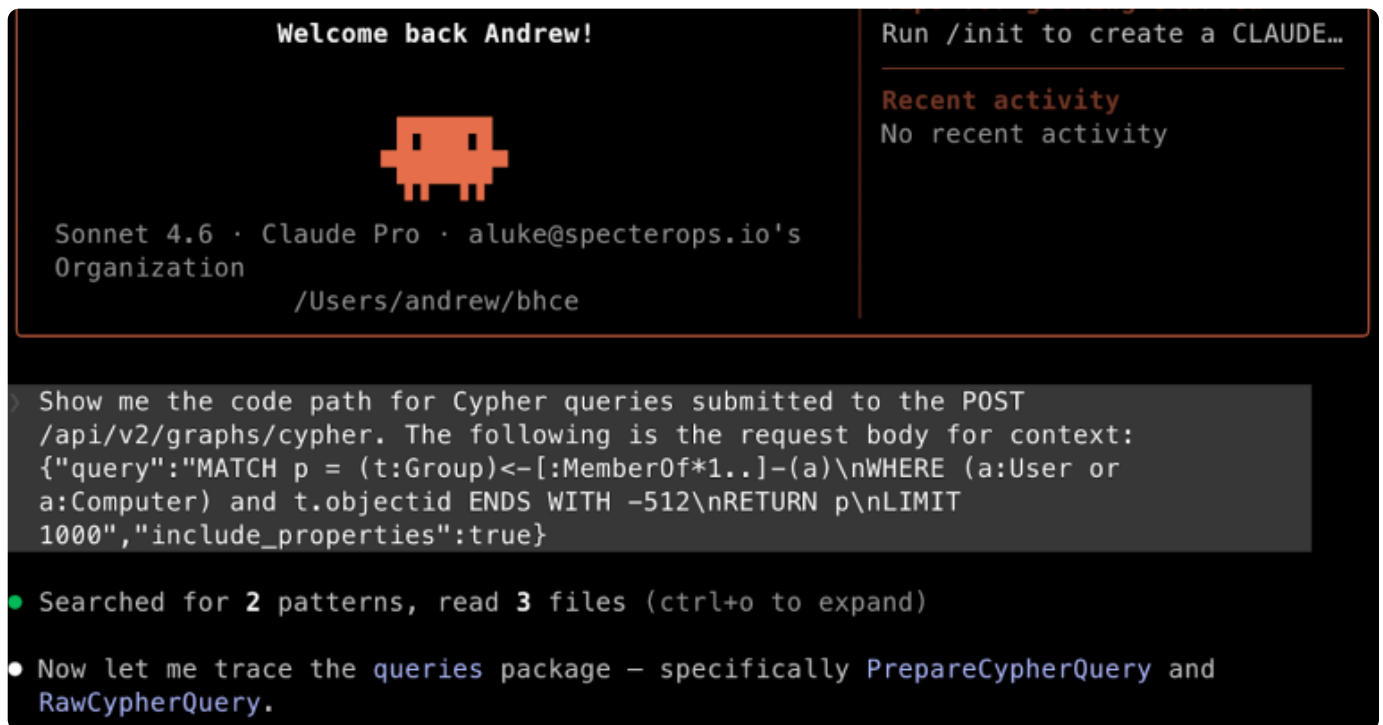
11 mins

# JamfHound v1.1

RESEARCH & TRADECRAFT

## JamfHound v1.1 Update: SSO Attack Paths and Okta Additions

TL;DR : New SSO Attack Paths and Okta Edges in JamfHound: Updates have been added to the JamfHound OpenGraph collector...



RESEARCH & TRADECRAFT

## Leveling Up Secure Code Reviews with Claude Code

TL;DR: Claude Code is a force multiplier when performing secure code reviews during an assessment. In this post, we discuss...

By: Andrew Luke

18 mins



RESEARCH & TRADECRAFT

## Attack Paths Don't Stop at Identity Providers

Modeling Okta in BloodHound Enterprise to uncover cross-platform identity risk Introduction Identity is no longer confined to a single system....

By: Jared Atkinson

10 mins



RESEARCH & TRADECRAFT

## RTFM: Read The Fatal Manual – When Vendor Documentation Creates Critical Attack Paths

TL;DR: Trusted vendor documentation across 16 major technology companies were actively guiding administrators to deploy critical misconfigurations (often Active Directory...

By: Martin Sohn Christensen

55 mins



BLOODHOUND

## Discovering Unexpected Okta Attack Paths with BloodHound

TL;DR: OktaHound is a new data collector for the Okta Platform that ingests information about entities and their relationships within...

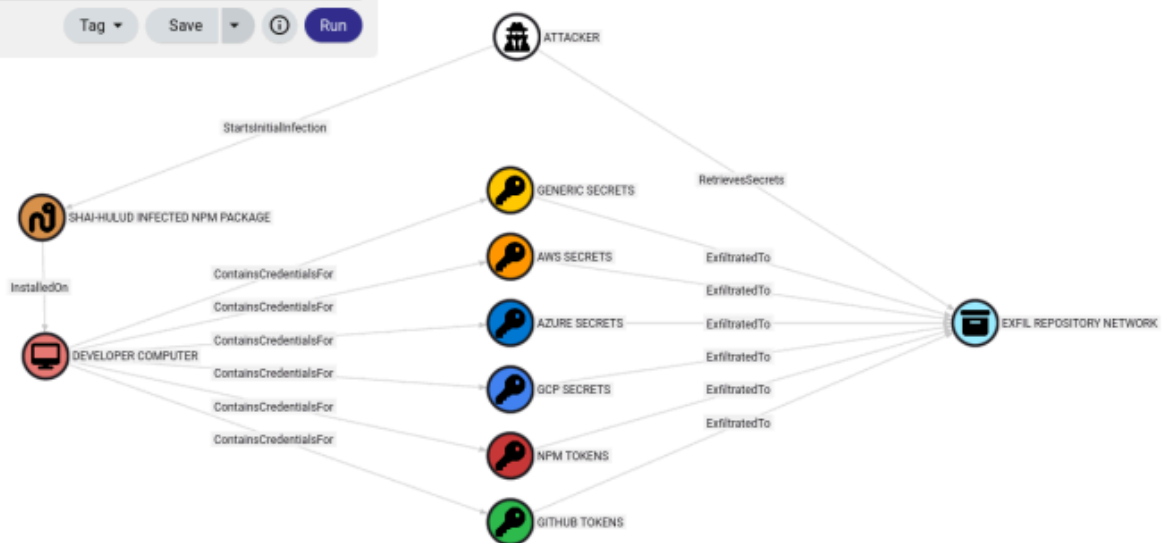
By: Michael Grafnetter

15 mins

```

1 match p=(:Attacker)-[:]->(:InfectedNPMPackage)-
  [[:InstalledOn]->(:Computer)-[:ContainsCredentialsFor]-
  >()-[:]->(:GHRepository)
2 where a.name = 'EXFIL REPOSITORY NETWORK'
3 match q=(:Attacker)-[:RetrievesSecrets]-
  (:GHRepository)
4 return p,q

```



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## Platform

BloodHound Enterprise

BloodHound Community Edition

## Services and Tradecraft

Offensive Services

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Red Team Operations

Identity-Driven Offensive Tradecraft

Detection

Tradecraft Analysis

Active Directory

Azure

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 SOLUTIONS

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