

HOW RED TEAM EFFORTS CAN FUEL BLUE TEAM CAPABILITIES

CRACK. TRACK. REACT.



GCON> WHOAMI



WHO IS THIS NERD

Fun Facts About Me

- 6 Years of telling companies their passwords suck
- Have more tools built than friends
- Still not blacklisted from my talk last year at GrrCon
- PostgreSQL was too slow for me
- I forked and fixed GoCat because it existed
- I'm not paranoid you're paranoid
- Haven't touched grass in weeks
- No wheel is round enough
- If Microsoft invented it I've probably already rage ported it in Go



But Why

Some people like 0-
days I like rpc null
binds



Actual Quote

Everyone: "Just use
Impacket"

Me: "No thanks, I'll just
rewrite DCERPC/SMB
in Go"



AS A PASSION

HASH CRACKING



THE PROBLEM



UNDERSTANDING

THE PROBLEM

Threat Actors



Recent Breaches

07-19-2019	Citrix	Password Spray
05-07-2021	Colonial Pipeline	Password Reuse
10-12-2023	23andMe	Credential Stuffing
01-12-2024	Microsoft	Password Spray
06-?-2024	Ticketmaster, Santander, AT&T	Credential Stuffing



APT Groups

- APT33 (Iran)
- APT34 (Iran)
- APT28 (Russia, GRU)
- APT29 (Russia, SVR)
- APT35 (Iran)
- APT40 (China)
- Nobelium (Russia, SVR)

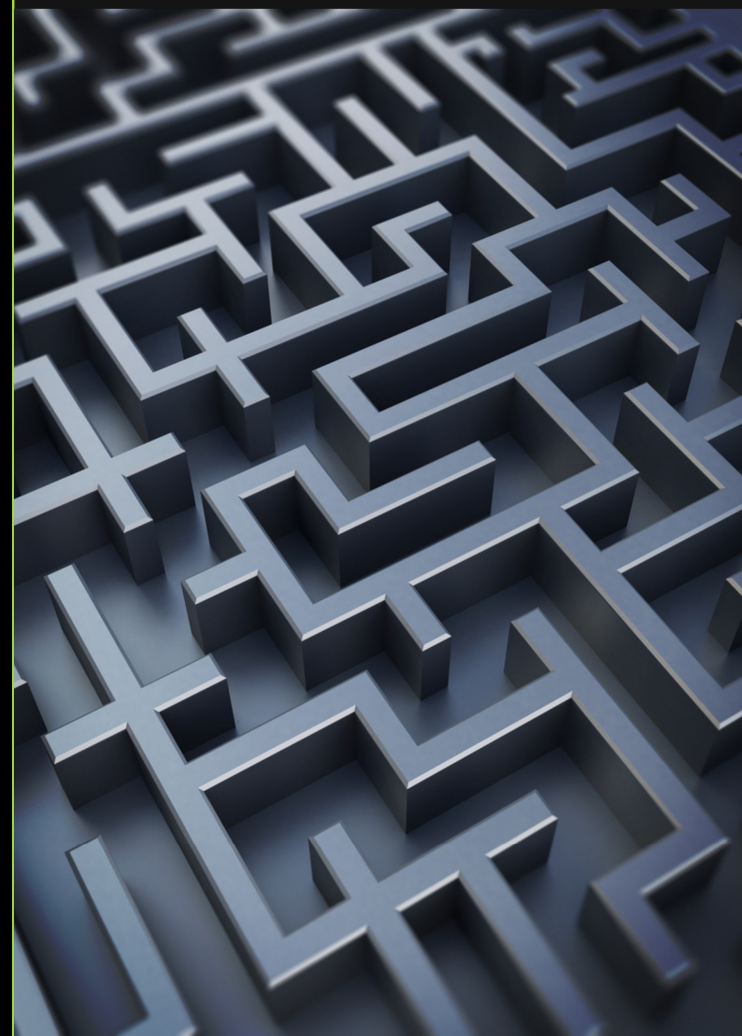
UNDERSTANDING

THE PROBLEM **Passwords**



Possible Problems

- Weak password policy
- Complex but compromised
- Password reuse
 - Local
 - Active Directory
- Permutations of compromised credentials
- Company details used in credentials

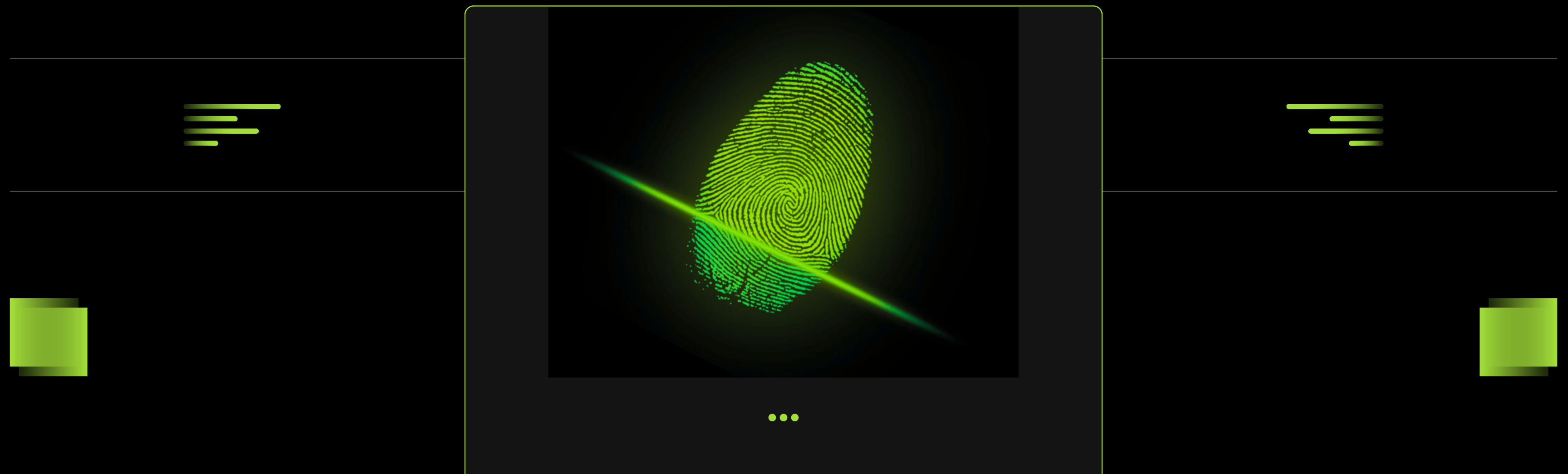


MSDN Password Complexity

- May not contain samAccountName
- Contains characters from:
 - Uppercase
 - Lowercase
 - Base 10 digits (0-9)
 - Non-alphanumeric Characters

PASSWORDS

EXISTING TOOLS



DETECTING PASSWORD ISSUES

Getting the Data

- Local
 - hashes live in the SAM Hive
 - Protected by key in SYSTEM Hive
- Active Directory
 - Live in NTDS.dit on DC's
- Can be extracted and decrypted with admin privileges

Using the Data

- Hash Cracking
 - Weak or Predictable
- Raw hashes
 - Password Reuse
 - Reuse Patterns
 - Accounts
 - Systems
- Both
 - Identify High-Risk Credential Configurations
 - Determine risk and mitigate blast radius

Creating a Process

- Only a single point-in-time view
- Active Directory environments are constantly changing
 - New Users
 - Service Accounts
 - Group Membership Shifts
- Without monitoring, weaknesses can creep back in

PASS-POL

Attribute	Description	Vulnerability
Machine Account Quota	Permit any authenticated user create up to N computer accounts (Default 10)	Non-admin users can create computer accounts, enabling attck paths such as RBCD
Reversible Encryption	Stores passwords with reversible encryption (decryptable) to support legacy protocols	Any compromise of systems or accounts that can read those attributes produces direct password disclosure
Complexity Requirement	Enforce Micorosft Defined Password Complexity	Low entropy passwords are vulnerable to guessing, dictionary attacks, offline cracking and high-scess-rate password spray campaigns
Min. Password Length	Minimum number of characters required.	Short minimum lengths reduce entropy, making passwords vulnerable to guessing, dictionary attacks, offline cracking, and high-success-rate password-spray campaigns
Lockout Counter	Number of failed sign-ins before an account is locked	Too permissive → brute-force/spray success; too strict → easy DoS
Timeout Observation	How long the account stays locked	Poorly chosen timers undermine the lockout mechanism: short counters let attackers brute at scale with low friction
Lockout Reset	Number of minutes before the failed-attempt counter resets to 0	Poorly chosen timers undermine the lockout mechanism: short counters let attackers brute at scale with low friction



UNAUTHENTICATED ATTACKS



AUTHENTICATED ATTACKS



UNDERSTANDING

THE PROBLEM **Remediation**



Post-Op Paralysis

The stage after a pentest where organizations receive actionable findings but lack the people, processes, or prioritization to convert those findings into timely, measurable remediation

- Lack of Tools
- Unclear Prioritization
- Lack of Understanding
- More than one right answer



Verification

- Unfit Tooling
- Potential to break things in environment

THE VISION



TOOLS



VAULTY



Vaulty

KEY-VALUE DATABASE

HASHCRACK.ING



HashCrack.ing



LISTS

Hashcrack.ing

Search

Submit

Wordlists

Hashlists

Rules

API

Discord

Tools

Hash Search

Search Cracked Hashes

Search our database of cracked hashes to quickly recover passwords

Single Hash

Bulk Search

32ed87bdb5fdc5e9cba88547376818d4
8846f7eae8fb117ad06bdd830b7586c
b963c57010f218edc2cc3c229b5e4d0f
4c090b2a4a9a78b43510ceec3a60f90b

Auto Detect

Max 100 hashes per search

Search Hashes

Upload File

Search Results

Found 3 of 4 hashes

Hash	Type	Plaintext
32ed87bdb5fdc5e9cba88547376818d4	NTLM	123456
8846f7eae8fb117ad06bdd830b7586c	NTLM	password
b963c57010f218edc2cc3c229b5e4d0f	NTLM	iloveyou
4c090b2a4a9a78b43510ceec3a60f90b	NTLM	Not found

Results may be cached from previous searches

Export Results

QUERIES

Hashcrack.ing

Search

Submit

Wordlists

Hashlists

Rules

API

Discord

Tools

Resources

Password Wordlists

Access our collection of high-quality wordlists for password cracking

Browse Wordlists

Upload Wordlist

Search wordlists...

Name	Size	Entries	Downloads	Upload Date	Actions
leviathon.AD Premium List of passwords cracked from various internal assessments	1.1 MB	96,183	18	Apr 6	Download
Rockyou2024.zip Premium Updated version of RockYou for 2024	49.0 GB	9,948,575,739	13	Apr 6	Download
b0n3z.txt Premium	32.26 GB	3,113,290,836	11	Apr 12	Download
8-char.txt List of 8 character passwords	145.1 KB	17,863	9	Apr 6	Download
18-char.txt List of 18 character passwords	7.5 KB	13,621	8	Apr 6	Download
hashmob.net_2025-03-30.found.7z Premium List curated by hashmob.net	7.3 GB	1,801,876,894	7	Apr 6	Download
Rocktastic12a.rar Premium Rocktastic List	2.5 GB	0	4	Apr 6	Download

KCAT




```
[ION [16] Generated bitmap tables
SK INFO -> {29 29 1}
[ION [161] Initializing device kernels and memory
[ION [160] Initialized device kernels and memory
[ION [1] Starting Autotune threads
[ION [0] Autotune threads have started..
[ION [240] Approaching final keySPACE, workload adjusted
VAL STATUS -> &{hashcat Exhausted NTLM /root/.local/share/bounty/temp/GXKYEWHKDf.txt Tue Sep 9 19:55:51 :
ecutor adding results
ecutor adding cracked hash: c22b315c040ae6e0efee3518d830362b password: 123456789
ecutor adding cracked hash: 259745cb123a52aa2e693aaacca2db52 password: 12345678
ecutor adding cracked hash: e16fda02030a134736ed66c155987b40 password: footballV
ecutor adding cracked hash: dff1dbd0d5695f1b2c8a3536a7ed3771 password: h3ll0!
ecutor adding cracked hash: cff972e0f6c705ad125d11cafde83d85 password: f00tb@ll
ecutor adding cracked hash: 31fc0dc8f7dfad0e8bd7ccc3842f2ce9 password: football
ecutor adding cracked hash: 8846f7eaae8fb117ad06bdd830b7586c password: password
ecutor adding cracked hash: 49b3ff5a96dc5b8cbf6406e533fdb18 password: iloveyou5I
ecutor adding cracked hash: b963c57010f218edc2cc3c229b5e4d0f password: iloveyou
ecutor adding cracked hash: 31c72c210ecc03d1eae94fa496069448 password: sunshine
ecutor adding cracked hash: e10aaa254a72012bc80a289f2d8d5c4e password: Team123!
ecutor adding cracked hash: fb4bf3ddf37cf6494a9905541290cf51 password: princess
rforming attack: ?a?a
ecutor writing uncracked ntlm hashes to file
ecutor getting uncracked ntlm hashes
ecutor getting cracked hashes
ecutor got cracked hashes with 272 entries
ecutor got uncracked ntlm hashes with 18 entries
ecutablePath: /opt/hashcat
_LIBRARY_PATH: /usr/local/cuda-13.0/compat:
[ION [86] Sorting salts...
[ION [85] Sorted salts...
[ION [17] Generating bitmap tables
[ION [16] Generated bitmap tables
SK INFO -> {17 17 1}
[ION [161] Initializing device kernels and memory
[ION [160] Initialized device kernels and memory
[ION [1] Starting Autotune threads
[ION [0] Autotune threads have started..
[ION [240] Approaching final keySPACE, workload adjusted
VAL STATUS -> &{hashcat Exhausted NTLM /root/.local/share/bounty/temp/omwkAM3iFO.txt Tue Sep 9 19:55:57 :
ecutor adding results
ecutor adding cracked hash: c75489b8e03046f743c1cc030df8be6a password: pr1nc3$$
ecutor adding cracked hash: 10e6b4a8fe7c3a9850d9077cda333e51 password: hellofno
ecutor adding cracked hash: 3d59ec952f99fbc0eb18d7a92dc40fb password: adminfL
rforming attack: ?a?a?a
ecutor writing uncracked ntlm hashes to file
ecutor getting uncracked ntlm hashes
ecutor getting cracked hashes
ecutor got cracked hashes with 275 entries
ecutor got uncracked ntlm hashes with 15 entries
ecutablePath: /opt/hashcat
_LIBRARY_PATH: /usr/local/cuda-13.0/compat:
Cracking NTLM Hashes
Performing increment attack
Writing uncracked NTLM Hashes to file: /root/.local/share/bounty/temp/o2uV9Yrwe3.txt
Executor writing uncracked ntlm hashes to file
Executor getting uncracked ntlm hashes
Executor getting cracked hashes
Executor got cracked hashes with 244 entries
Executor got uncracked ntlm hashes with 46 entries
ExecutablePath: /opt/hashcat
LD_LIBRARY_PATH: /usr/local/cuda-13.0/compat:
ACTION [86] Sorting salts...
ACTION [85] Sorted salts...
ACTION [17] Generating bitmap tables
ACTION [16] Generated bitmap tables
TASK INFO -> {45 45 1}
ACTION [161] Initializing device kernels and memory
ACTION [160] Initialized device kernels and memory
ACTION [1] Starting Autotune threads
ACTION [0] Autotune threads have started..
ACTION [240] Approaching final keySPACE, workload adjusted
ACTION [1] Starting Autotune threads
ACTION [0] Autotune threads have started..
ACTION [240] Approaching final keySPACE, workload adjusted
ACTION [1] Starting Autotune threads
ACTION [0] Autotune threads have started..
ACTION [240] Approaching final keySPACE, workload adjusted
ACTION [1] Starting Autotune threads
ACTION [0] Autotune threads have started..
ACTION [240] Approaching final keySPACE, workload adjusted
ACTION [1] Starting Autotune threads
ACTION [0] Autotune threads have started..
ACTION [240] Approaching final keySPACE, workload adjusted
ACTION [1] Starting Autotune threads
ACTION [0] Autotune threads have started..
ACTION [240] Approaching final keySPACE, workload adjusted
FINAL STATUS -> &{hashcat Exhausted NTLM /root/.local/share/bounty/temp/o2uV9Yrwe3.txt Tue Sep 9 19:49:27 2025 1
Executor adding results
Executor adding cracked hash: 066ddfd4ef0e9cd7c256fe77191ef43c password: hello
Executor adding cracked hash: 2330f2ff9fbdf5b962fcb26ae337974a password: dr4g0n
Executor adding cracked hash: 6d9a5acc174877e1cdd45147af1de804 password: w3lc0me
Executor adding cracked hash: 2d20d252a479f485cdf5e171d93985bf password: qwerty
Executor adding cracked hash: f9e37e83b83c47a93c2f09f66408631b password: abc123
Executor adding cracked hash: 32ed87bdb5fdc5e9cba88547376818d4 password: 123456
Executor adding cracked hash: 0c12cc2b593eb9ab466a79a907cbac73 password: m0nk3y
Executor adding cracked hash: f7eb9c06afafaa23c4bcf22ba6781c1e2 password: dragon
Executor adding cracked hash: f2477a144dff4f216ab81f2ac3e3207d password: monkey
Executor adding cracked hash: 328727b81ca05805a68ef26acb252039 password: 1234567
Executor adding cracked hash: 7a21990fcd3d759941e45c490f143d5f password: 12345
Executor adding cracked hash: 209c6174da490caeb422f3fa5a7ae634 password: admin
```

BOUNTY



NO EXPIRY

SIEM INTEGRATION

Bounty

License

Bounty Service

LDAP Connection

SIEM

Keywords

Keybinds

Cadence

Active Directory Configuration

Configure connection to your Active Directory server for user and group management.

Connection

Bind

Connection Settings

LDAP Server FQDN

dc4.rabbithole.lol

Domain

rabbithole.lol

☒ Nameserver is the same as LDAP Server

☒ Use LDAPS (Secure LDAP)

☒ Skip Verify

LDAP Connection successful

Test Connection

Binding Settings

This user will be used to query Active Directory for users and groups, and to effect password resets on users. The account must have sufficient privileges to modify user objects in Active Directory.

Bind Username

ehosinski

Bind Password

LDAP Bind successful

Bounty

Settings

Configure your account, license, and connection settings.

License

Bounty Service

LDAP Connection

SIEM

Keywords

Keybinds

Cadence

SIEM Integration

Configure Security Information and Event Management (SIEM) integration to send security events to your SIEM platform.

☒ Enable SIEM Integration

SIEM Type

Splunk

Splunk

Elastic SIEM

IBM QRadar

Microsoft Sentinel

HP ArcSight

Wazuh

Custom (Generic HTTP)

SIEM Username

Enter your SIEM username

SIEM Password

Enter your SIEM password

SIEM Index Name

Enter your SIEM index name

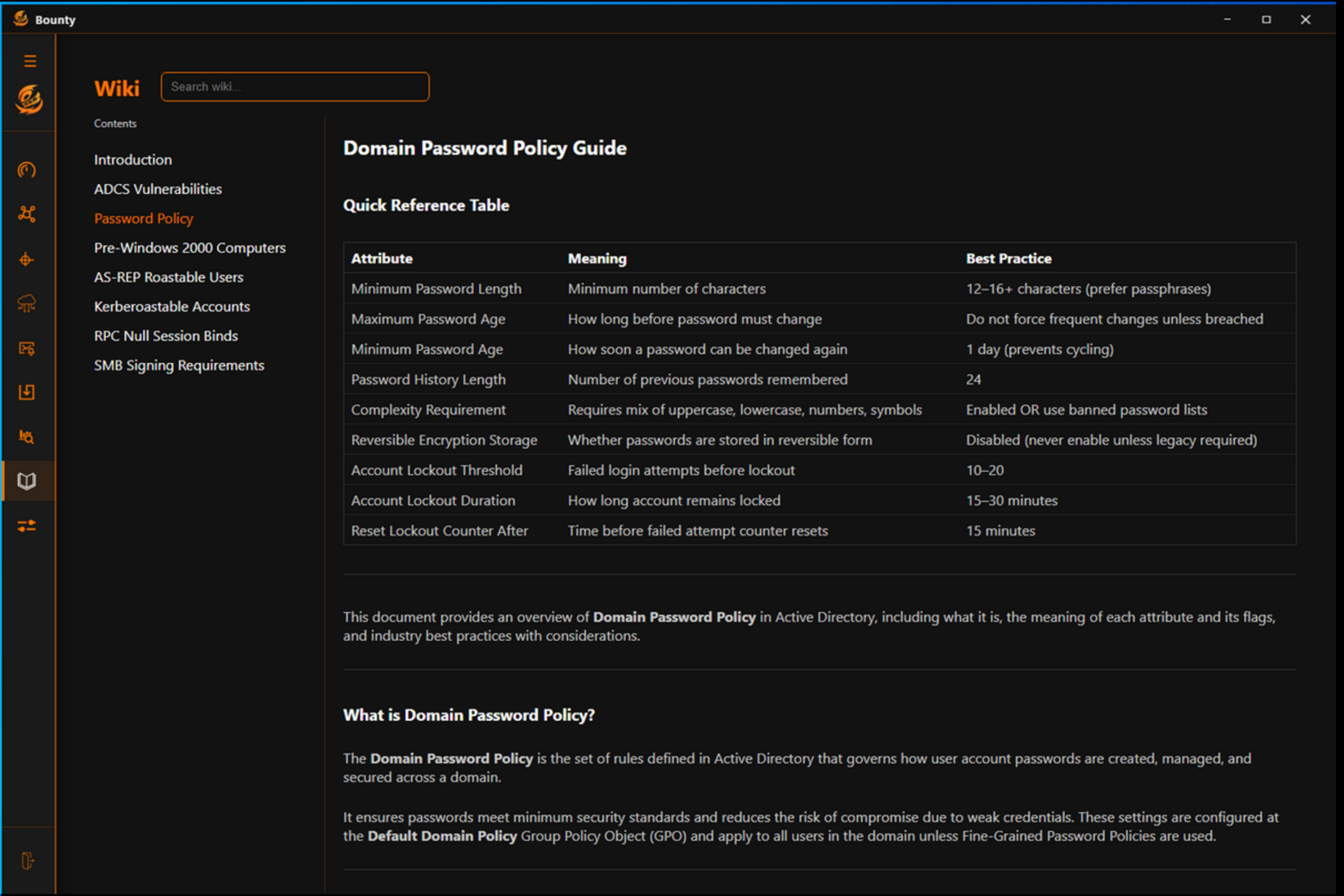
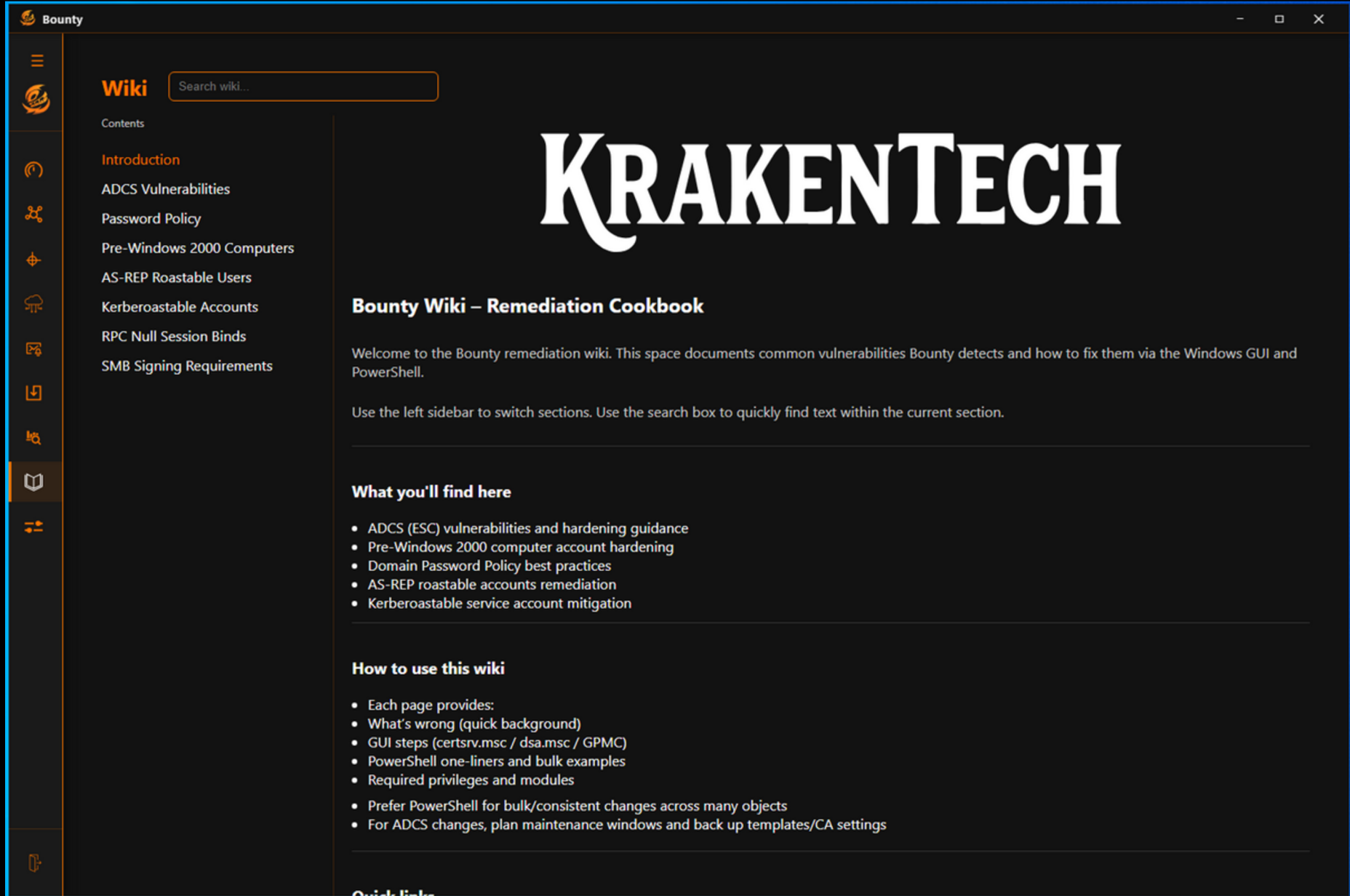
Test Connection

Save Settings

LDAP CONNECTION & BIND

[illegible]

KEYWORDS



WIKI

EXPORT

Export Data

Export password breach data or password reuse data in various formats for analysis or reporting.

Password Breach Data
 Password Reuse Data
 Pre2K Computer Data
 ASRepRoastable Data

Export Format

Excel (.xlsx)

Export as Microsoft Excel spreadsheet. Best for data analysis and filtering.

JSON

Export as JSON file. Best for programmatic processing and integration with other systems.

HTML

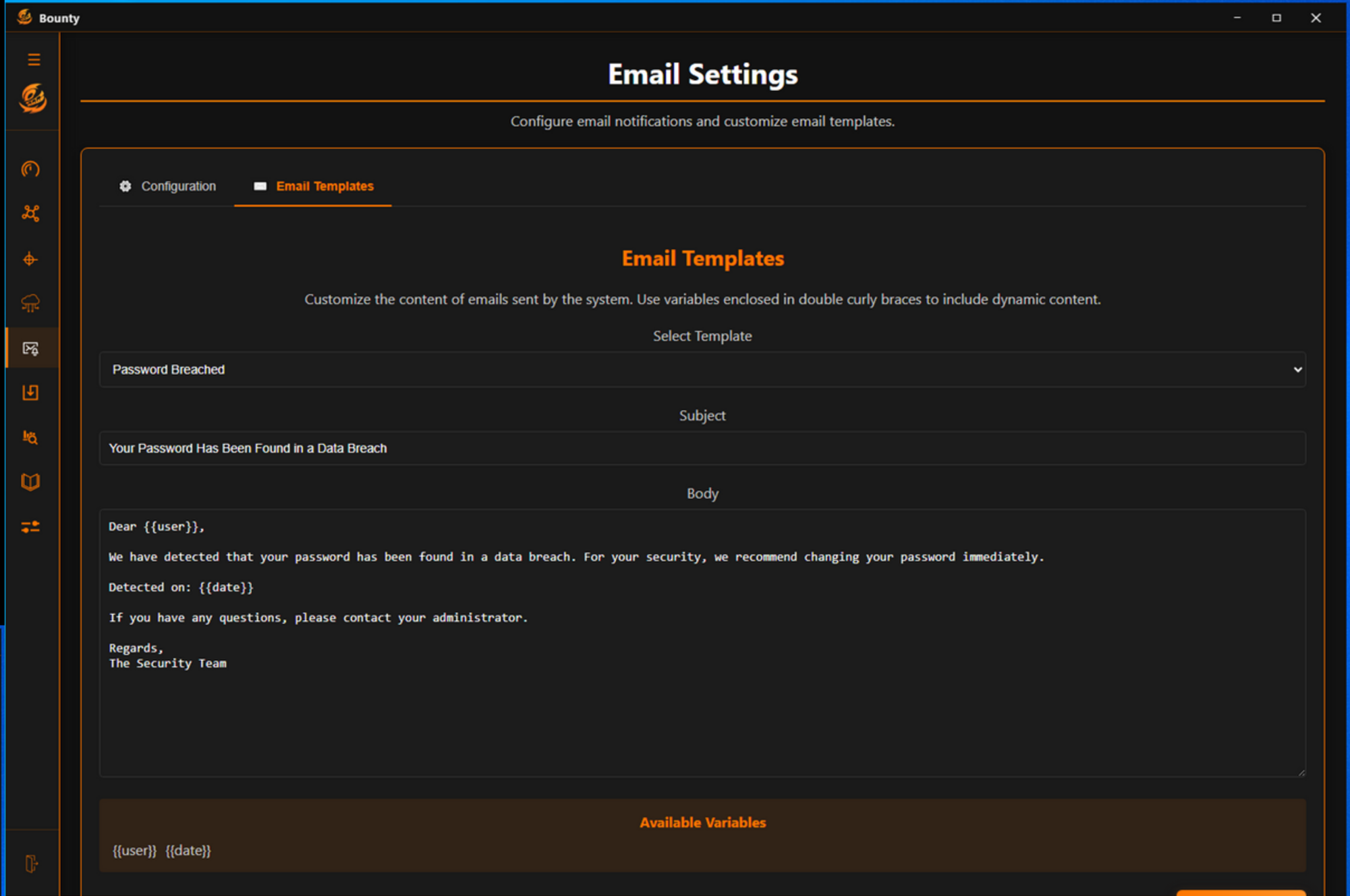
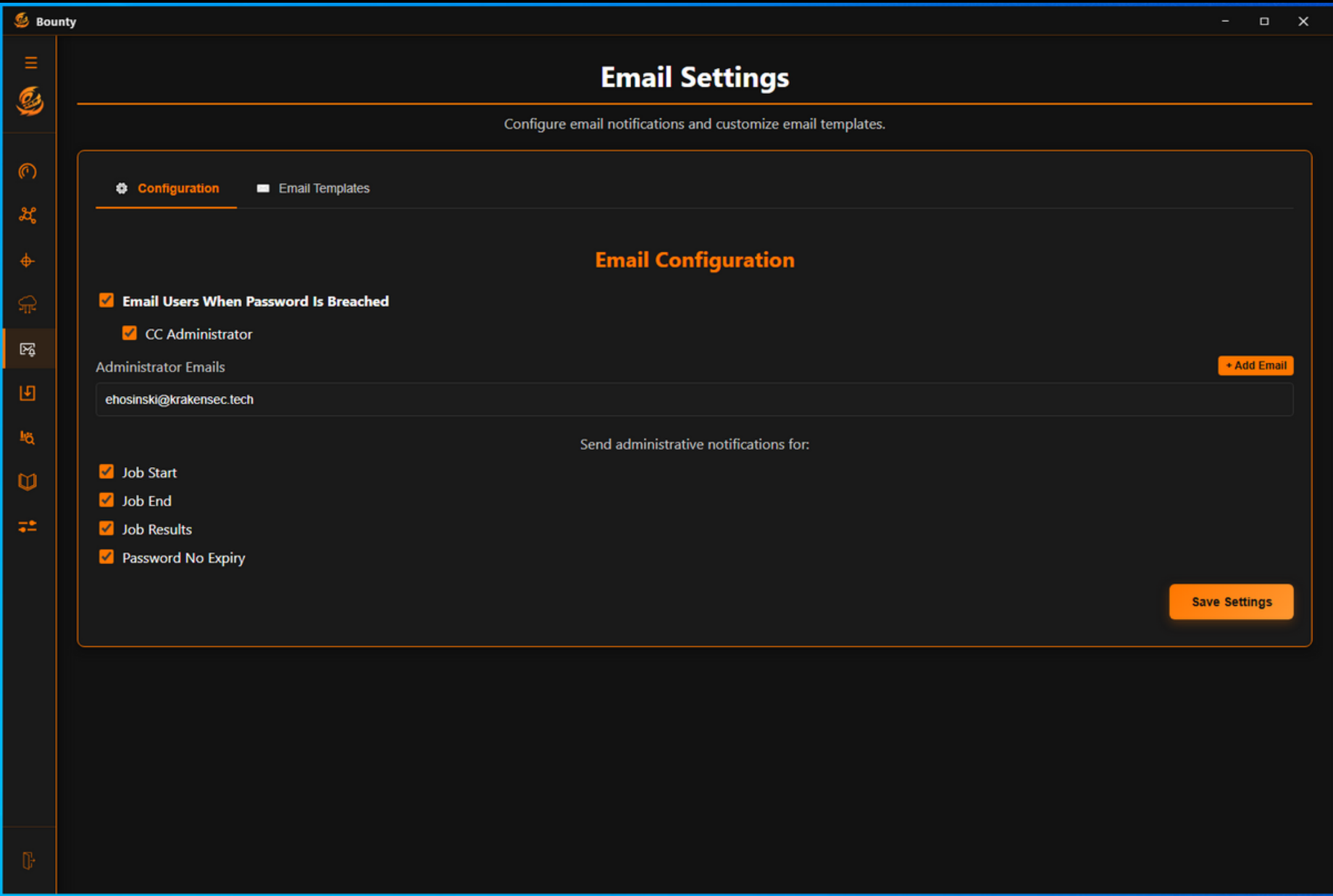
Export as HTML file. Best for viewing in a web browser with formatted tables.

Export Password Breach Data

Data Description

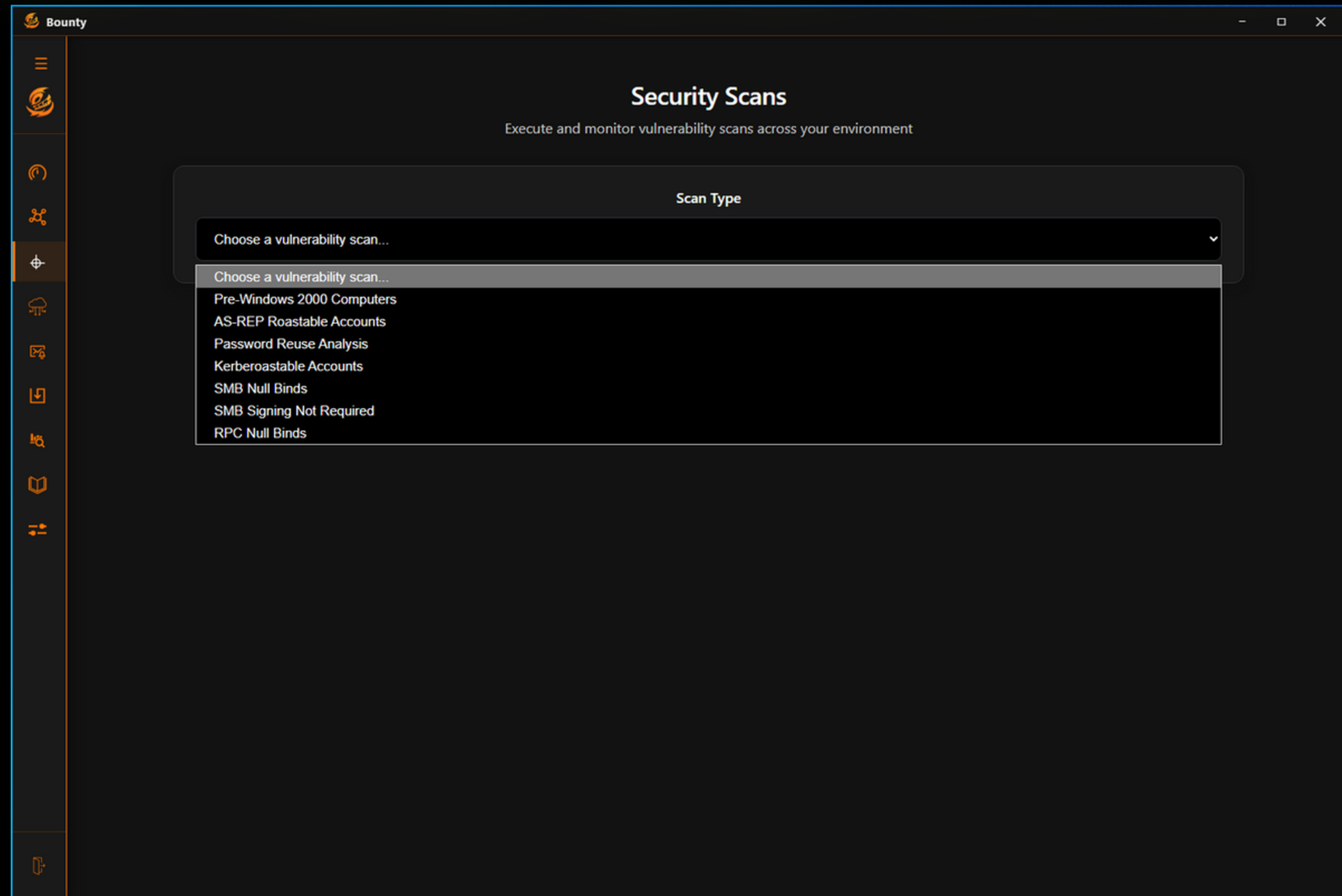
This export includes information about users whose passwords have been found in data breaches:

User full name	SAM account name
Email address	User type (Admin/Standard)
Password change status	Affected date
Password expiration status	



ALERT
EMAILS

AD HOC SCANNING



SMB SIGNING

Bounty

Security Scans

Execute and monitor vulnerability scans across your environment

Scan Type

RPC Null Binds

Start Scan

RPC Null Binds

OVERVIEW

Identifies systems that allow anonymous RPC connections, potentially exposing domain information.

WHAT THIS SCAN DOES

RISK LEVEL

HIGH Direct attack vector

T1018 Remote System Discovery

Impact

Anonymous RPC access can expose user accounts, groups, and other domain information to unauthorized users.

Mitigation

Disable anonymous RPC access and implement proper authentication requirements for RPC services.

Scan Results

Completed

Elapsed: 0s

Scanned: 3 objects

Found: 1 vulnerable item

Description	Access Type	Status	Action
Anonymous RPC access detected	SMB Bind IPC Bind	Vulnerable	

Bounty

Security Scans

Execute and monitor vulnerability scans across your environment

Scan Type

SMB Signing Not Required

Scanning...

SMB Signing Not Required

OVERVIEW

Identifies systems that do not require SMB signing, making them vulnerable to man-in-the-middle attacks.

WHAT THIS SCAN DOES

RISK LEVEL

HIGH Direct attack vector

T1557 Man-in-the-Middle

Impact

Lack of SMB signing allows attackers to intercept and modify SMB traffic between clients and servers.

Mitigation

Enable SMB signing requirements on all domain controllers and member systems.

Scan Results

Running

Elapsed: 0h 0m 8s

Scanned: 16 objects

Started: 9/29/2025, 3:03:43 PM

Scanning in progress...

RPC NULL BIND

KERBEROAST

Bounty

Execute and monitor vulnerability scans across your environment

Scan Type

AS-REP Roastable Accounts

Start Scan

AS-REP Roastable Accounts

OVERVIEW

Finds user accounts that do not require Kerberos pre-authentication, making them vulnerable to AS-REP roasting attacks.

WHAT THIS SCAN DOES

Searches for user accounts that have "Do not require Kerberos preauthentication" enabled. This allows attackers to request AS-REP messages and perform offline password attacks.

RISK LEVEL

HIGH Direct attack vector

T1558.004 AS-REP Roasting

Impact

Attackers can request AS-REP messages for accounts without pre-authentication and attempt offline password cracking against the encrypted portion.

Mitigation

Ensure all user accounts have "Kerberos preauthentication required" enabled and use strong, complex domain that are resistant to offline attacks.

Scan Results

Completed Elapsed: 0s Scanned: 3 objects Found: 3 vulnerable items

User Name	Last Logon	Status	Action
dmillan	Never	Vulnerable	
fadmin	Never	Vulnerable	
jjones	Never	Vulnerable	

Bounty

Execute and monitor vulnerability scans across your environment

Security Scans

Execute and monitor vulnerability scans across your environment

Scan Type

Kerberoastable Accounts

Start Scan

Kerberoastable Accounts

OVERVIEW

Identifies service accounts with Service Principal Names (SPNs) that are vulnerable to Kerberoasting attacks.

WHAT THIS SCAN DOES

RISK LEVEL

HIGH Direct attack vector

T1558.003 Kerberoasting

Impact

Attackers can request service tickets for SPNs and attempt offline password cracking against the encrypted portion.

Mitigation

Use strong passwords for service accounts, implement Managed Service Accounts, and regularly rotate service account passwords.

Scan Results

Completed Elapsed: 0s Scanned: 4 objects Found: 3 vulnerable items

User Name	Service Principal Names	Status	Action
ispnuser	N/A	Vulnerable	
svc_FileShare_1	N/A	Vulnerable	
svc_FileShare_2	N/A	Vulnerable	

ASREPROAST

SMB NULL BINDS

Bounty

Execute and monitor vulnerability scans across your environment

Scan Type

Pre-Windows 2000 Computers

Start Scan

Pre-Windows 2000 Computers

OVERVIEW

Identifies computers with Pre-Windows 2000 compatible authentication enabled, making them vulnerable to password attacks.

WHAT THIS SCAN DOES

Identifies computer accounts classified as Pre-Windows 2000 compatible, then generates potential credentials using Microsoft's own naming rules and tests them against each discovered computer account.

RISK LEVEL

HIGH Direct attack vector

T1078 Valid Accounts

Impact

Adversaries may abuse inactive accounts: for example, those belonging to individuals who are no longer part of an organization. Using these accounts may allow the adversary to evade detection, as the original account user will not be present to identify any anomalous activity taking place on their account

Mitigation

Ensure all users with Pre-Windows 2000 compatibility mode have their domain changed.

Scan Results

Completed Elapsed: 0s Scanned: 16 objects Found: 4 vulnerable items

Computer Name	Operating System	Status	Action
DEMO\$	Unknown OS	Vulnerable	
DEMO3\$	Unknown OS	Vulnerable	
DEMO\$	Unknown OS	Vulnerable	
DEMO3\$	Unknown OS	Vulnerable	

Bounty

Execute and monitor vulnerability scans across your environment

Security Scans

Execute and monitor vulnerability scans across your environment

Scan Type

SMB Null Binds

Start Scan

SMB Null Binds

OVERVIEW

Identifies systems that allow anonymous SMB connections, potentially exposing sensitive information.

WHAT THIS SCAN DOES

RISK LEVEL

HIGH Direct attack vector

T1135 Network Share Discovery

Impact

Anonymous SMB access can expose sensitive files, shares, and system information to unauthorized users.

Mitigation

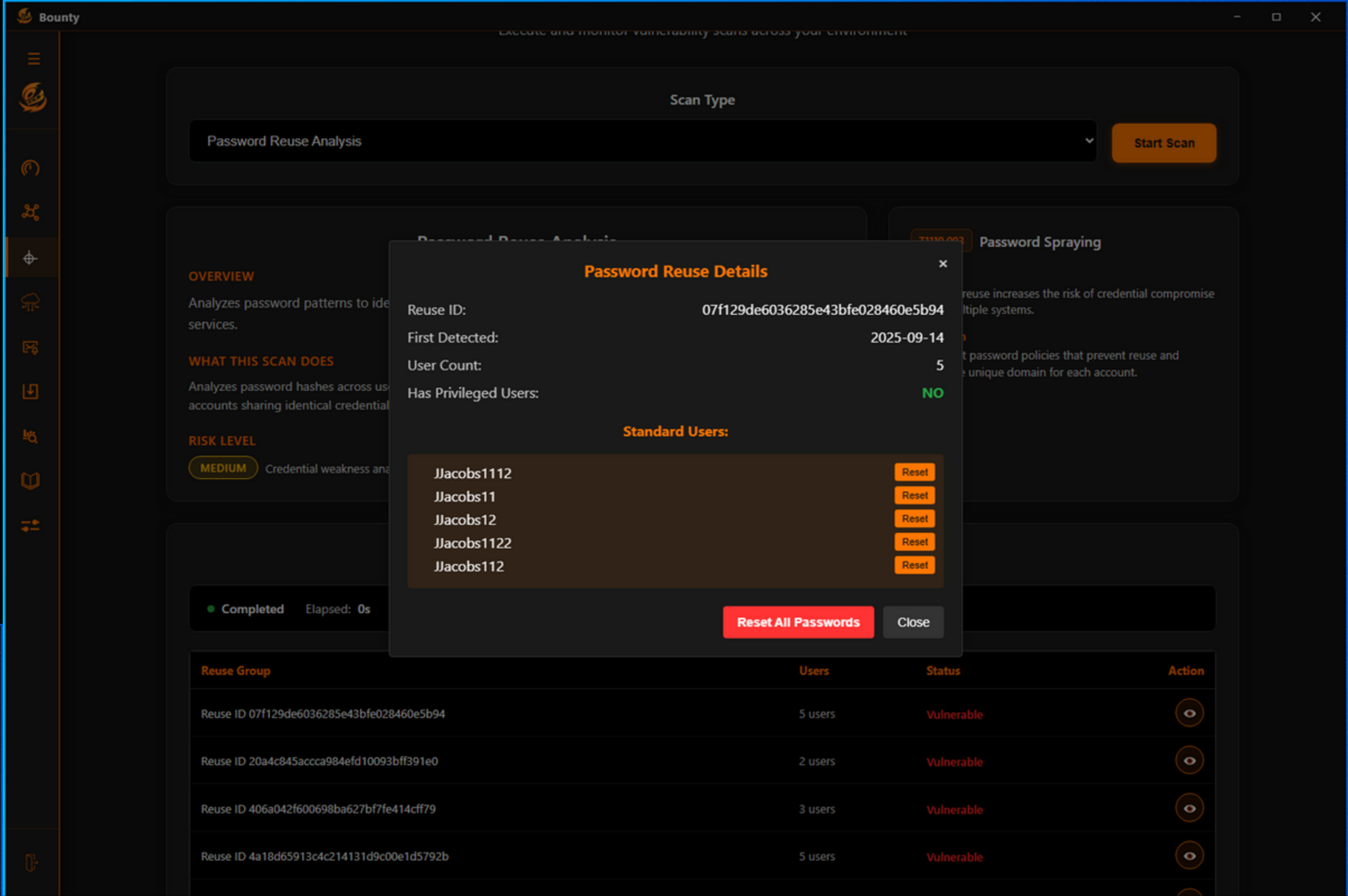
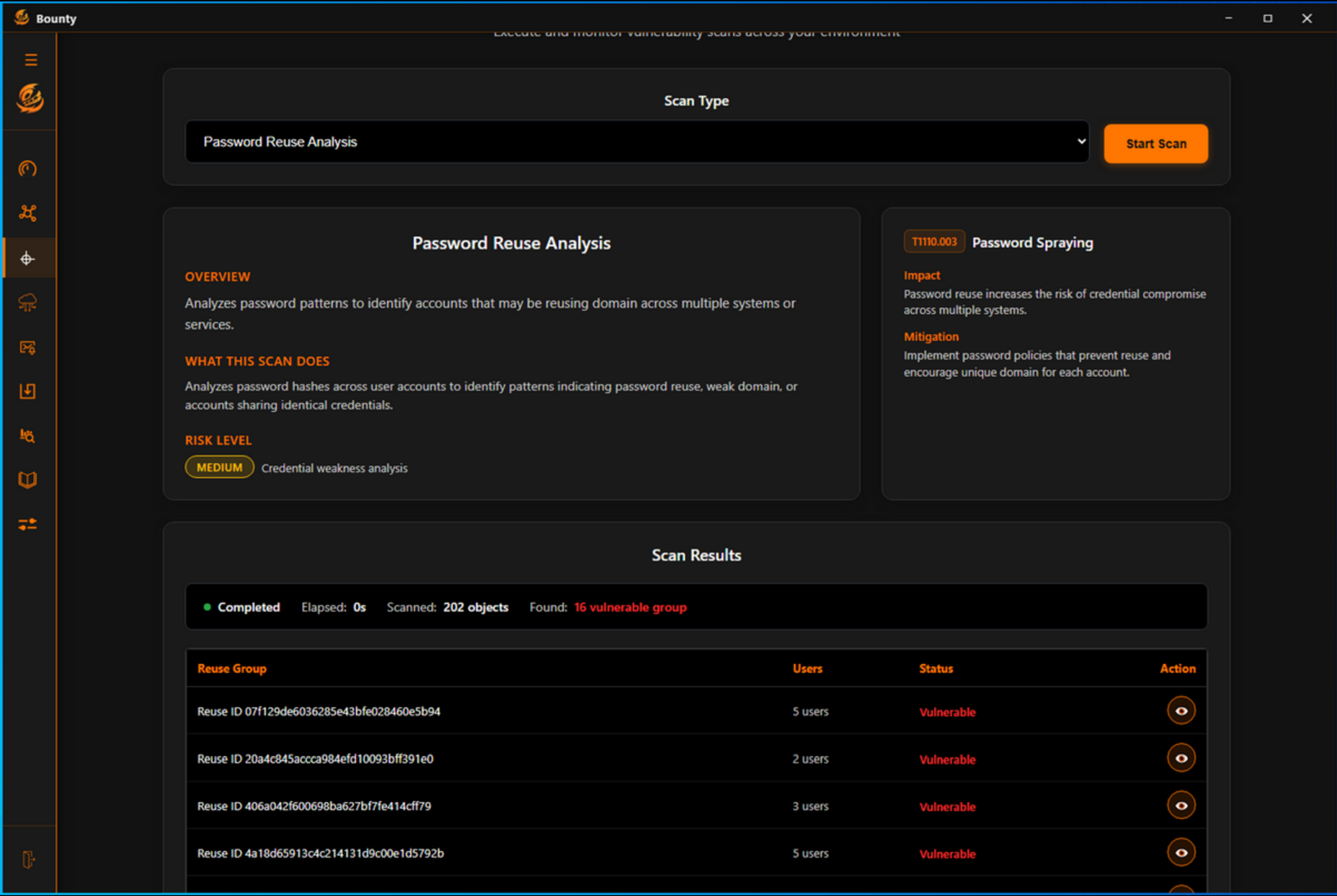
Disable anonymous access to SMB shares and implement proper authentication requirements.

Scan Results

Completed Elapsed: 0s Scanned: 16 objects Found: 2 vulnerable items

Hostname	Vulnerability	Status	Action
DC4.rabbithole.lol	Anonymous SMB Access	Vulnerable	
TEST-2.rabbithole.lol	Anonymous SMB Access	Vulnerable	

PRE2K COMPUTERS



PASSWORD
REUSE

First Detected	Reuse ID	Scan ID	Count	Privileged	Action
2025-09-14	07f129de6036285e43bfe028460e5b94	1	5	NO	
2025-09-29	20a4c845acca984efd10093bff391e0	4	2	YES	
2025-09-14	406a042f600698ba627bf7fe414cff79	1	3	YES	
2025-09-16	4a18d65913c4c214131d9c00e1d5792b	3	5	NO	
2025-09-14	4b17050112cb49ff6b26ad79009f0b4c	1	3	NO	
2025-09-14	4b80ee84511834121694110fc545ca42	2	3	NO	



Correction Mode: **Single user** Entire reuse ID

First Detected:

User Count:

Has Privileged Users:

2025-09-14

5

NO

Standard Users:

Jacobs1112

Jacobs11

Jacobs12

Jacobs1122

Jacobs112

Close

ACTIVE DIRECTORY

Bounty

enosińskienosinski@rabbitnoie.ioi✕

ratatat✕

SPN Account Management📄 ↻

Configure how Service Principal Name (SPN) accounts are handled when vulnerabilities are detected.
Found 3 SPN accounts.

SPN Account Policy:

Alert Only▼

SPN Accounts Summary

Total: 3Enabled: 3Never Expires: 3Privileged: 1

Policies

When a password is breached: ?
Send Alert Only▼

When Vulnerable Pre-2K computers are found: ?
Send Alert▼

When AS-REP Roastable accounts are found: ?
Send Alerts▼

Domain Controllers✔

HR✔

- Remote✔

Finance✔

Marketing✔

IT✔

- Nerds✔
- Testers✔

Executives✔

Programmers✔

- interns✔

Front End✔

- UX✔

SPN Account Details

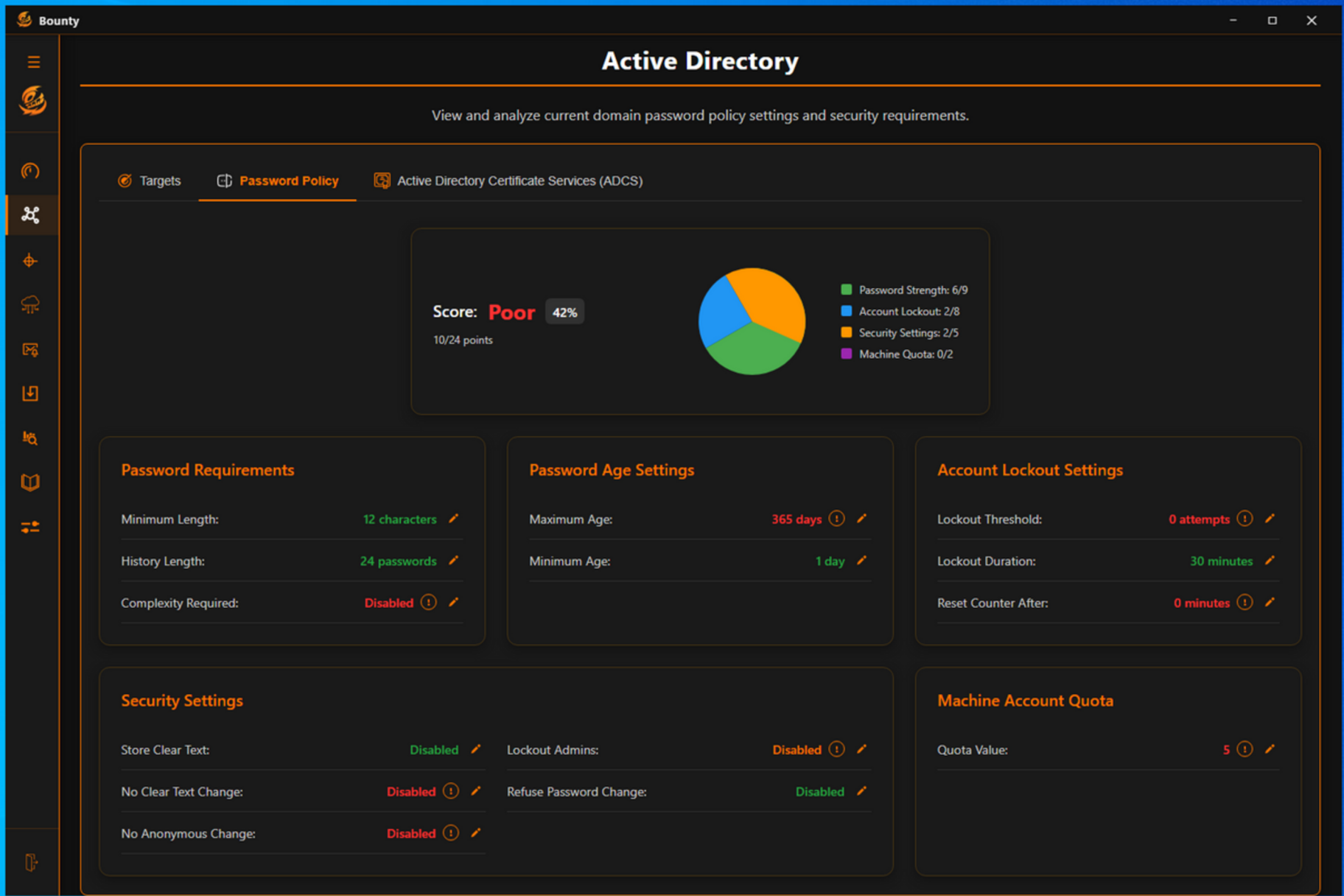
Found 3 SPN accounts.

Account	Email	Type	Enabled	Never Expires	Privileged	SPNs
ispnuser	N/A	Admin	✓	✓	✓	MSSQLSvc/ispnuser.rabbithole.lol, MSSQLSvc/ispnuser
svc_FileShare_1	N/A	Standard	✓	✓	✗	svc_FileShare_1/svc_FileShare_1.lol.rabbithole
svc_FileShare_2	N/A	Standard	✓	✓	✗	svc_FileShare_2/svc_FileShare_2.lol.rabbithole

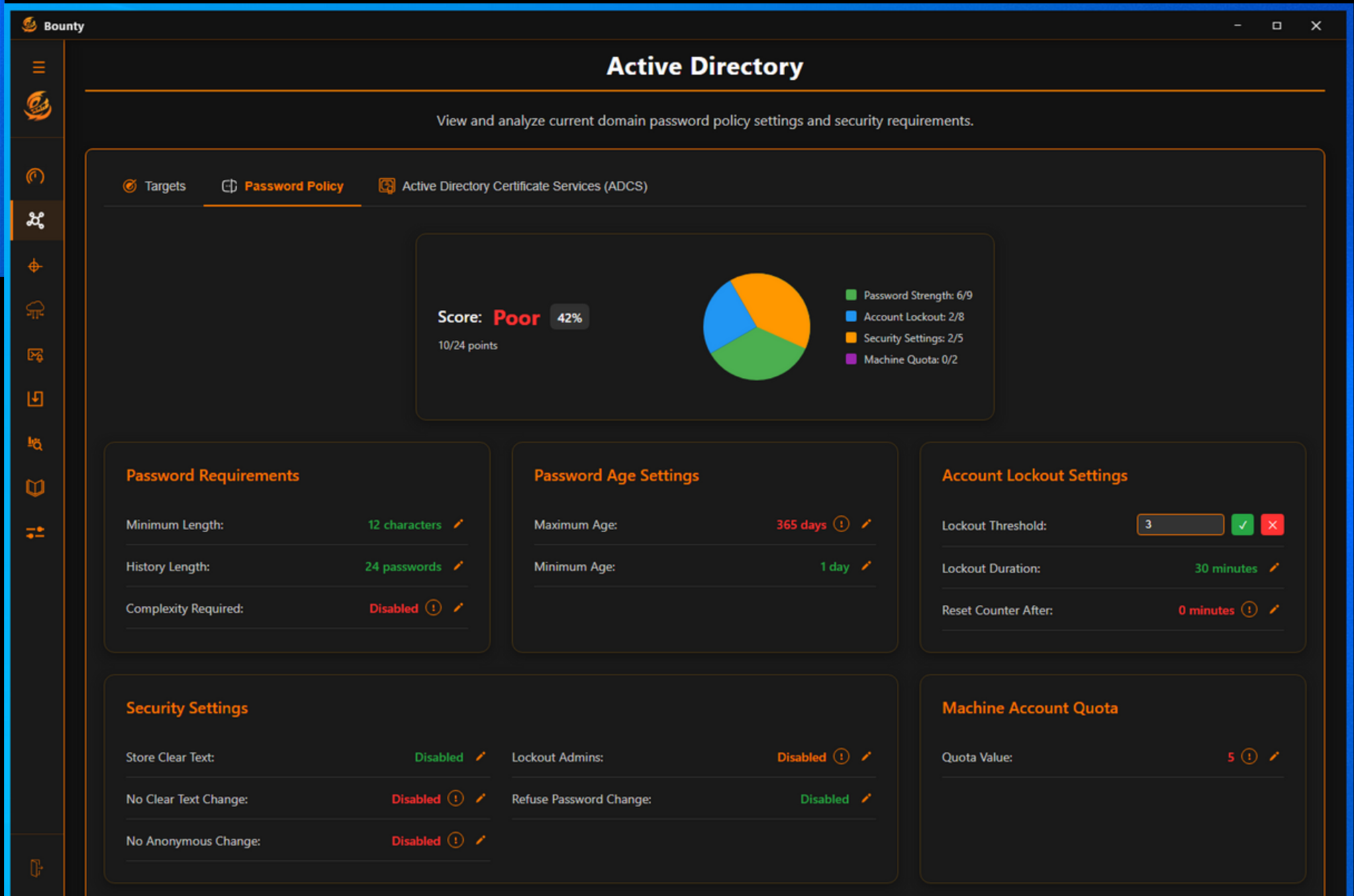
Enabled: 3

Never Expires: 3

Privileged: 1



PASSWORD
POLICY



ACTIVE DIRECTORY CERTIFICATE SERVICES

[CA] CA-River-504

Certificate Authority Information

Name:CA-River-504

DNS Host:DC4.rabbithole.lol

Status:ENABLED

Web Enrollment:ENABLED

Distinguished Name

CN=CA-River-504,CN=Enrollment Services,CN=Public Key Services,CN=Services,CN=Configuration,DC=rabbithole,DC=lol

Certificate DN

CN=CA-River-504, DC=rabbithole, DC=lol

Security Vulnerabilities

ESC5

Excessive privileges over PKI system that could lead to complete takeover

ESC7

User has dangerous permissions on CA

ESC8

Web enrollment is enabled over HTTP

ESC11

CA does not enforce encryption for ICertRequest (RPC) requests

Enabled Templates (13)

TPL-Stone-178

TPL-Ocean-807

DirectoryEmailReplication

DomainControllerAuthentication

KerberosAuthentication

[Template] Vulnerable User

Certificate Template Information

ESC1

Security Vulnerabilities

Template Vulnerability Detected

This certificate template has been identified as vulnerable to privilege escalation attacks.

Enrollable Users/Groups (4)

Domain Users (Group)

Domain Admins (Group)

Enterprise Admins (Group)

Authenticated Users (Well-Known)

Extended Key Usage (3)

Client Authentication (1.3.6.1.5.5.7.3.2)

1.3.6.1.5.5.7.3.2

Email Protection (1.3.6.1.5.5.7.3.4)

1.3.6.1.5.5.7.3.4

Microsoft Encrypting File System (1.3.6.1.4.1.311.10.3.4)

1.3.6.1.4.1.311.10.3.4

Name:VulnerableUser

Display Name:Vulnerable User

Status:ENABLED

Schema Version:2

Certificate Authority:CA-River-504

Distinguished Name

CN=VulnerableUser,CN=Certificate Templates,CN=Public Key Services,CN=Services,CN=Configuration,DC=rabbithole,DC=lol

Template Configuration

Template OID:1.3.6.1.4.1.311.21.8.9441119.11609380.4999819.9145755.985251.23.7159938.5272627

Object GUID:a244b9fe-afef-438a-b462-323bc9fb487c

Enrollment Flags:9

Private Key Flags:16842768

Active Directory Certificate Services (ADCS)

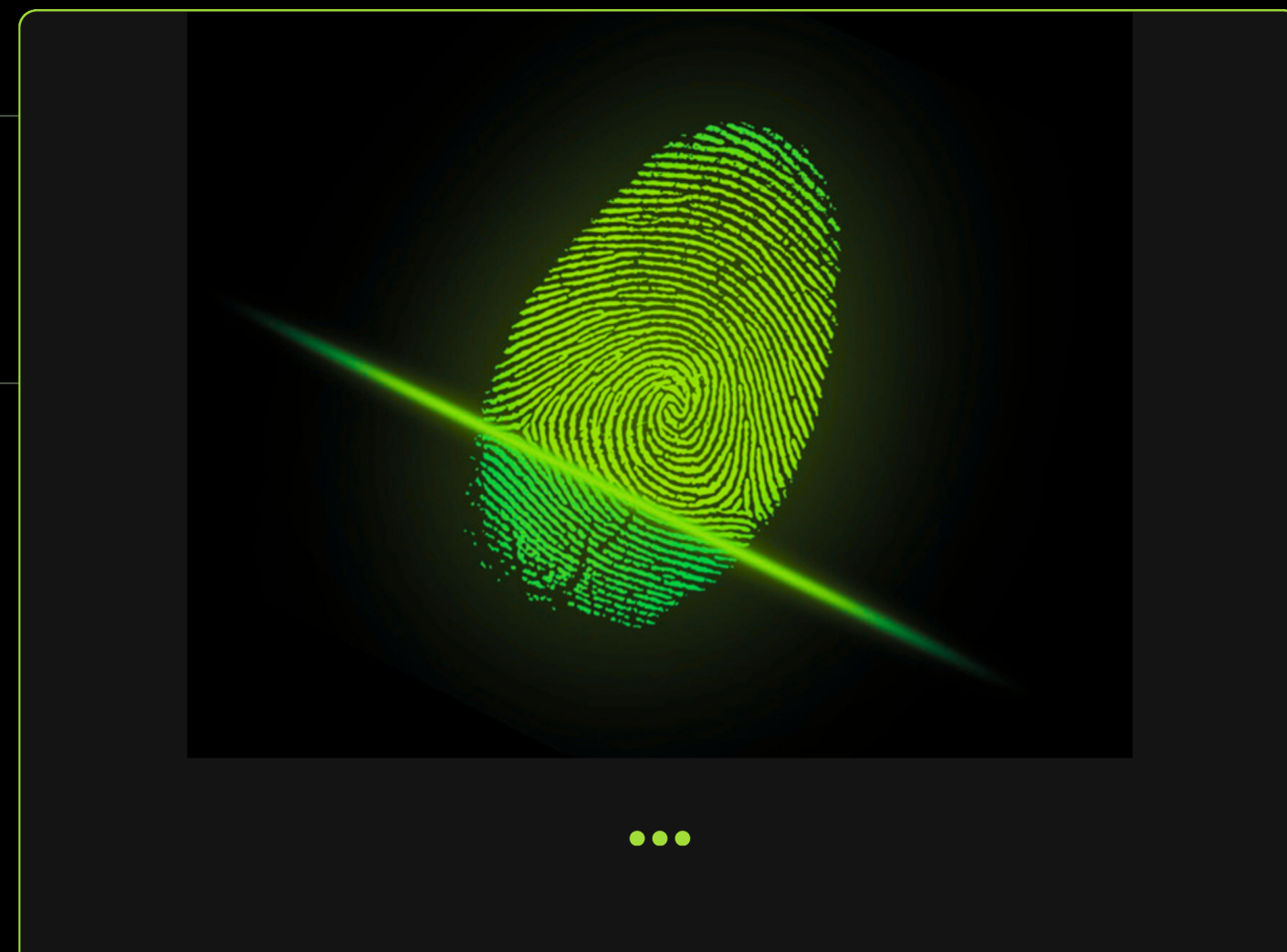
Risk Level

HIGH

SEARCH RESULTS (1)

ESC1

INFRASTRUCTURE



BOUNTY ENGINE



BY DESIGN

SECURITY

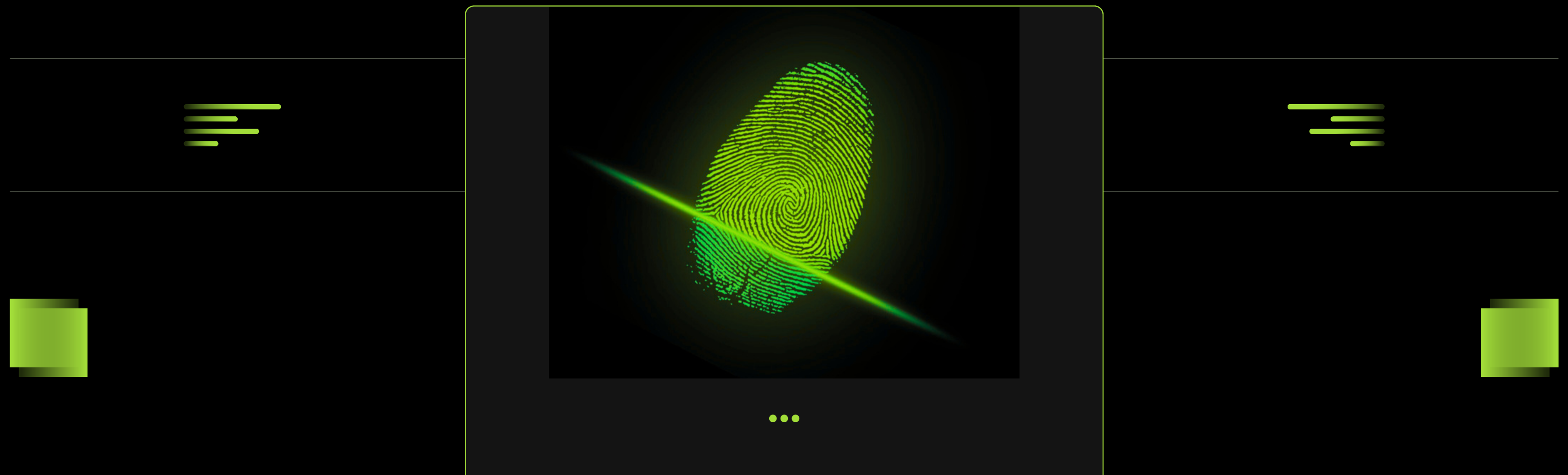


GROWING PAINS



THE LOOP

CRACK → TRACK → REACT



LESSONS LEARNED



THE TAKEAWAY



FINAL THOUGHTS

& CALL TO ACTION

Recap

You have the data
you need to
become more
formidable

One small mistake
can lead to a big
breach



... www.reallygreatsite.com ...

Take action today

Update passwords, stay
informed, be alert

more information at:

<https://krakensec.tech/tools/bounty>