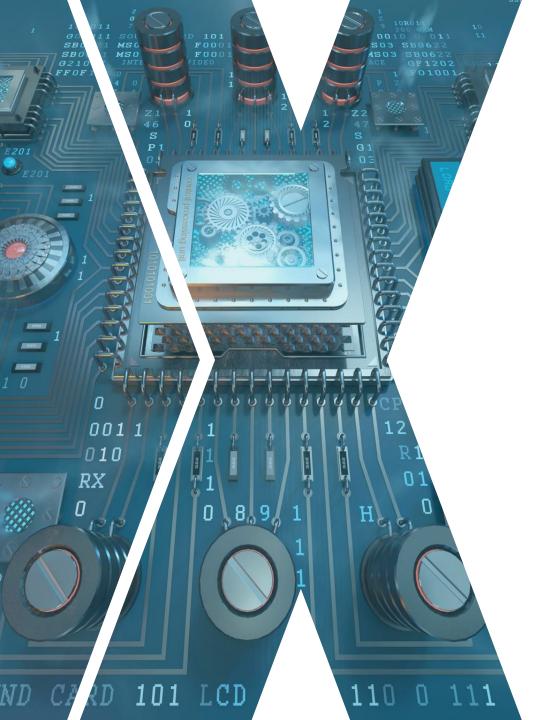


Active Directory Security Platform



About Our Company

Forestall is a security start-up founded in 2020. Our team is focused on adversarial tactics on Active Directory. With this motivation, we are developing a multi-staged platform which comprises proactive and reactive countermeasures for emerging Active Directory threats.



Team Achievements





Active Directory



Real Word Impact

A Lesson From The Pipeline Hack: Secure Active Directory Now

Written by Paul Roberts | Published 12 May 2021

Cyber

Ryuk Ransomware Hit Multiple Oil & Gas Facilities, ICS Security Expert Says

Attackers 'weaponized' Active Directory to spread the ransomware.

Active Directory Attacks Hit the Mainstream

There was a time when attacks against identity and authentication infrastructure were the domain of well-financed and, likely, state-backed threat actors. These groups crave persistence on critical networks and would invest CrowdStrike Exec Points to Active Directory 'Structural Problems' in Senate Solorigate Hearing By Kurt Mackie | 02/26/2021

> TrickBot Now Steals Windows Active Directory Credentials

By Lawrence Abrams

🛅 January 23, 2020 🛛 04:07 PM 🛛 🔲 1

The Weaponization of Active Directory: An Inside Look at Ransomware Attacks Ryuk, Maze, and SaveTheQueen

Like never before, Active Directory (AD) is in the attackers' crosshairs. In this blog, we'll examine how ransomware attacks are abusing AD and how enterprises can evolve their defensive strategies to stay ahead of attackers.



Real Word Impact



https://www.darkreading.com/vulnerabilities%E2%80%94threats/researchers-explore-active-directory-attack-vectors/d/d-id/1340902



Identity Threat Detection & Response

Enhance Your Cyberattack Preparedness With Identity Threat Detection and Response

Published 20 October 2022 - ID G00765882 - 21 min read

By Analyst(s): Henrique Teixeira, Peter Firstbrook, Ant Allan, Rebecca Archambault Initiatives: Identity and Access Management and Fraud Detection

Conventional identity and access management and security preventive controls are insufficient to protect identity systems from attack. To enhance cyberattack preparedness, security and risk management leaders must add ITDR capabilities to their security infrastructure.

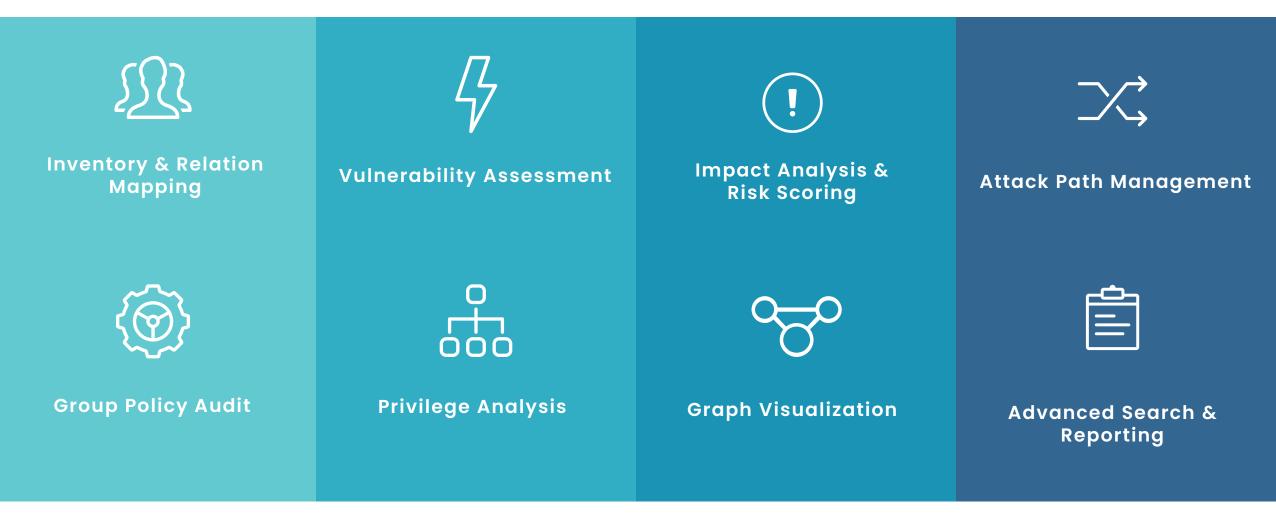
Top Trends in Cybersecurity, 2022





Active Directory Security Assessment

Solution





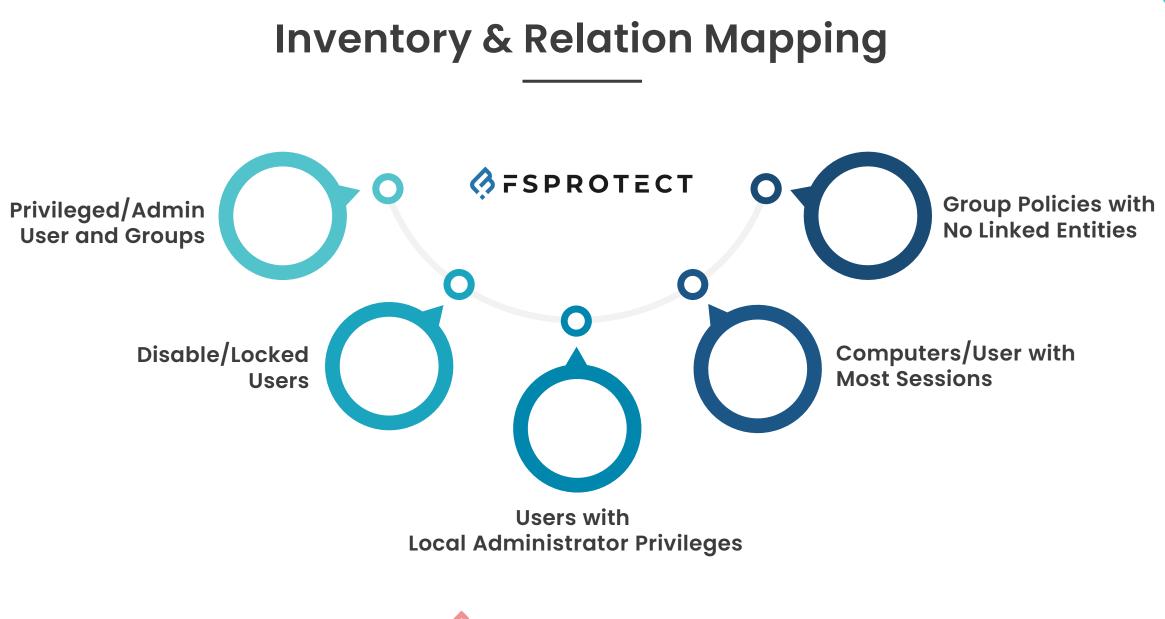


Features

Inventory & Relation Mapping

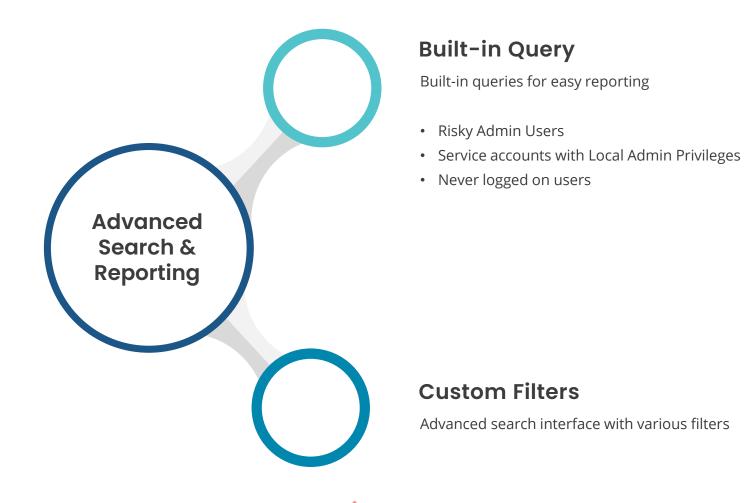
FSProtect, collects in-depth information and relationships of Active Directory objects and endpoints with the proprietary information gathering algorithm.





FORESTALL

Advanced Search & Reporting

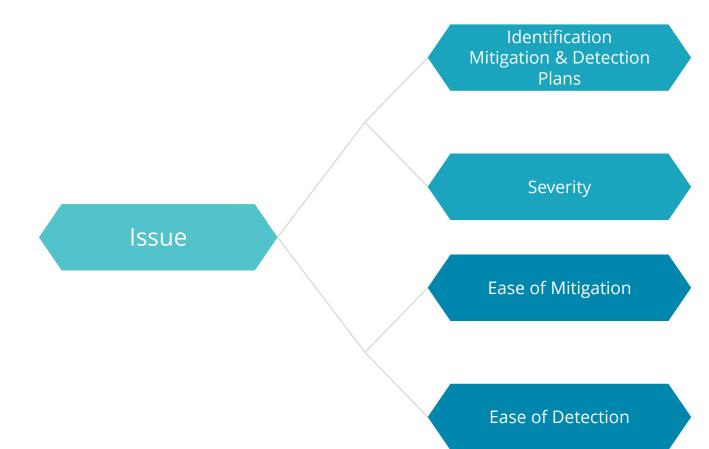


Features

Vulnerability Assessment

FSProtect continuously detects Active Directory Specific vulnerabilities with no false positives thanks to its Vulnerability Detection Engine.

Vulnerability documentation contains the information to accelerate vulnerability identification, remediation detection, and prioritization process.





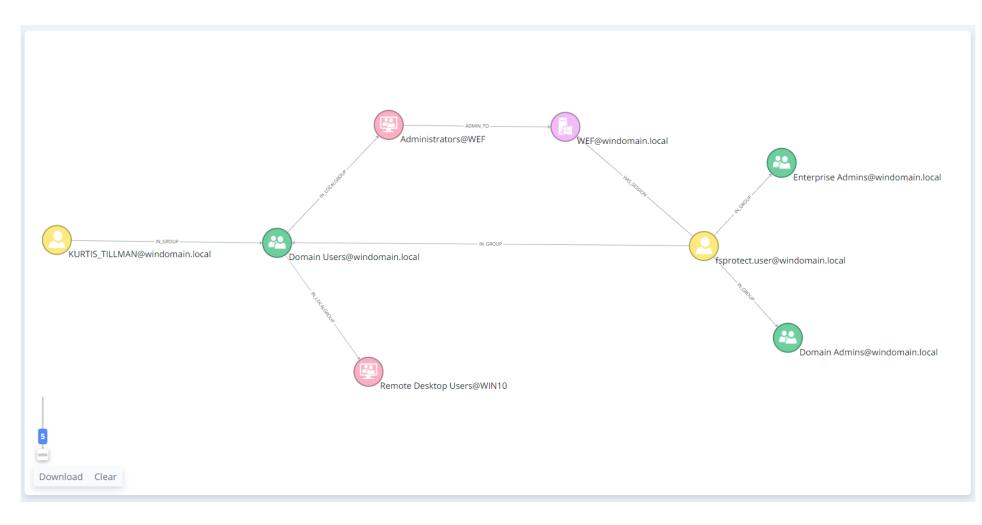


Vulnerability Assessment

Severity	Ease of Mitigation	Ease of Detection	lssue
Critical	Hard	Hard	Admin Sessions on Non-Domain Controller Servers
Critical	Easy	Easy	Dangerous Access Control Entries on Users
Critical	Medium	Hard	Plain Text Passwords in Group Policy Preferences
High	Easy	Medium	Reversible Password Usage for Users
Low	Easy	Easy	Inactive Users

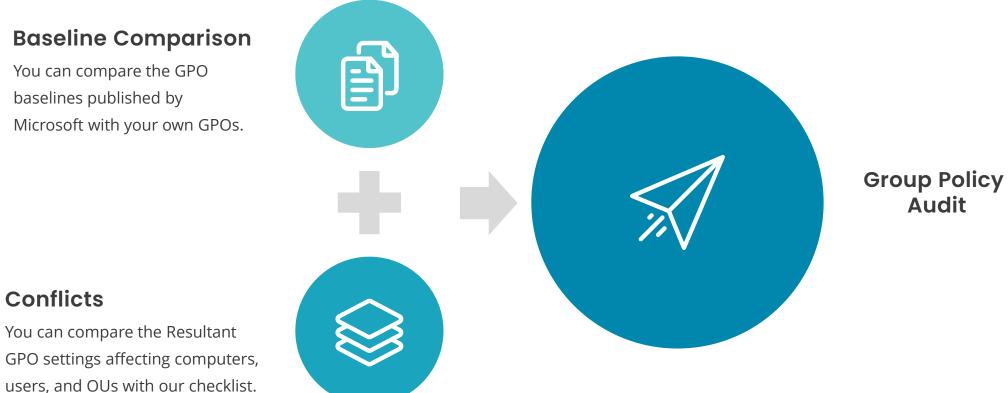


Attack Path Finding with Graph Visualization

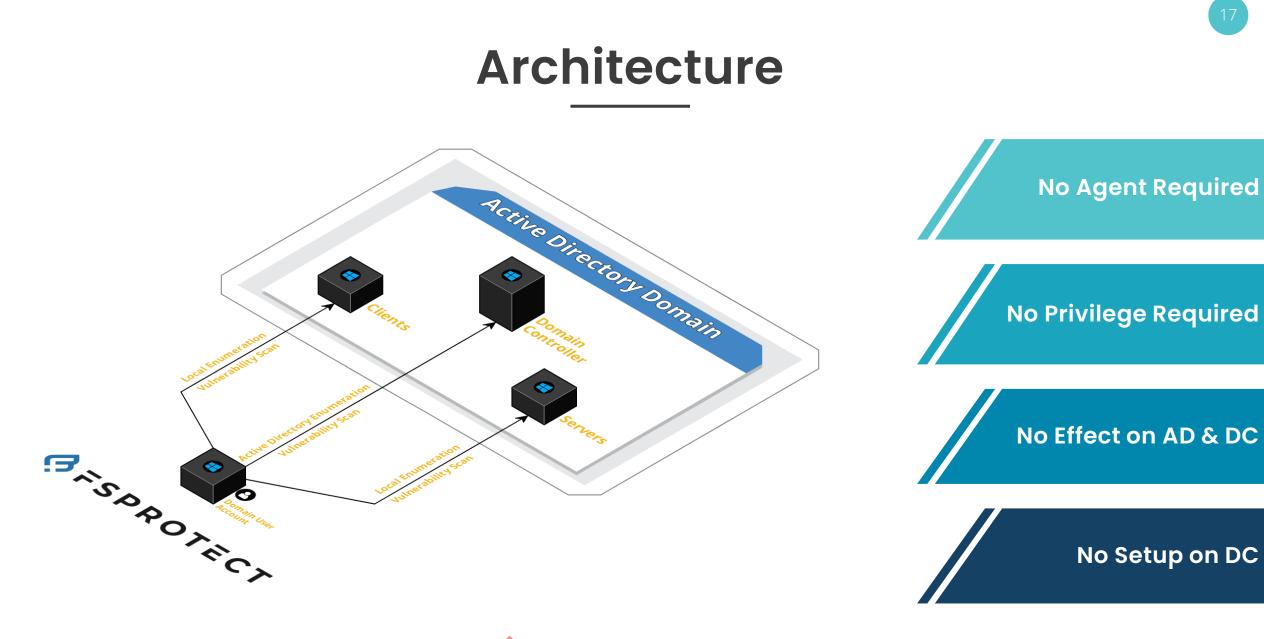




Group Policy Audit







FORESTALL

FSProtect Use Cases

- System Administrator

- Red Team

- Blue Team



System Administrator

Identity Visibility

- Unknown, risky objects
- Local inventory enumeration
- Multiple Forest & Domain enumeration



Search & Reports

- Empty groups, disabled GPOs, inactive objects etc



GPO Audit

- Vulnerable settings and Resultant Set of Policies
- Compliance scores

System Administrator – Identity Visibility

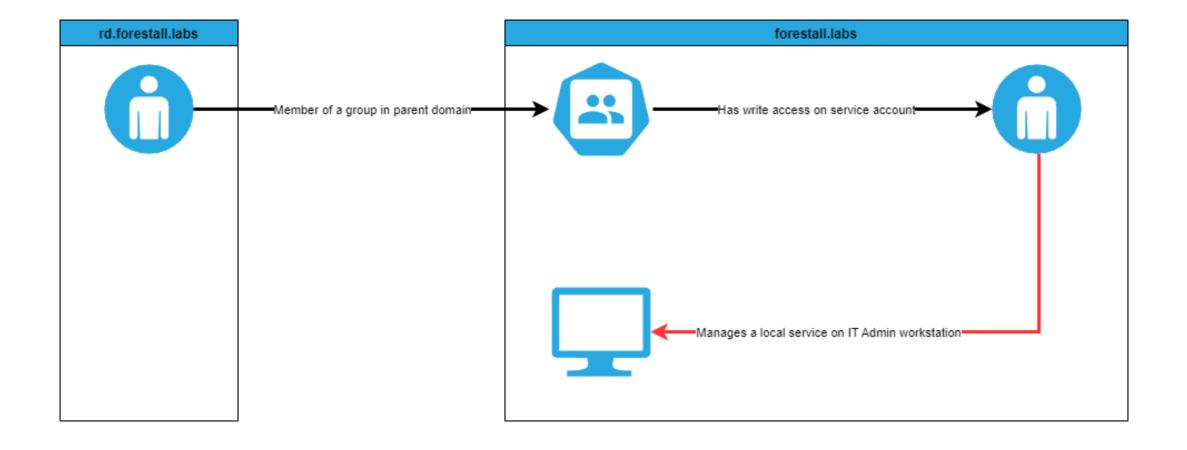
Users	Stats
Total	58300
Disabled	3316
Privileged	10314 (%17)
Service Account	279
Risky	57466 (%98)

Computers	Stats
Total	31947
Disabled	224
Inactive	3999 (%12)
Unsupported	527
Risky	31556 (%98)

Groups	Stats
Total	18232
Empty	2774 (%15)
Privileged	49
Admin	12
Risky	17767 (%97)

GPO	Stats
Total	448
Empty	122 (%27)
Disabled	14
Unlinked	99 (%22)
Risky	126 (%28)

System Administrator – Identity Visibility



Red Team

Vulnerability Assessment

Active Directory specific, mostly unknown vulnerabilities

- Certificate Service vulnerabilities
- Kerberos / NTLM Protocol related vulnerabilities



Attack Path Management

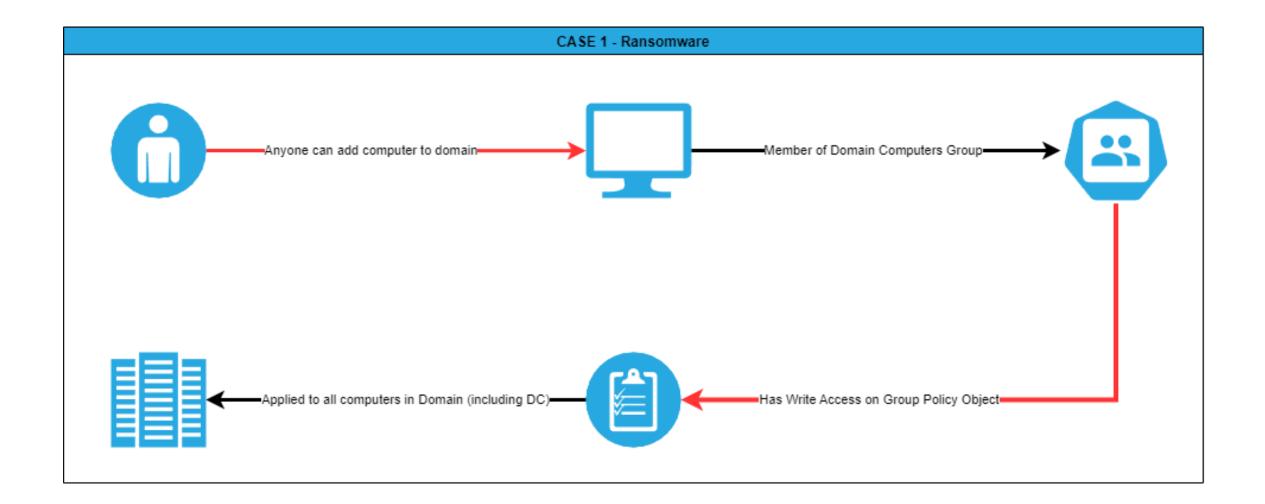
Complex and undetectable attack paths



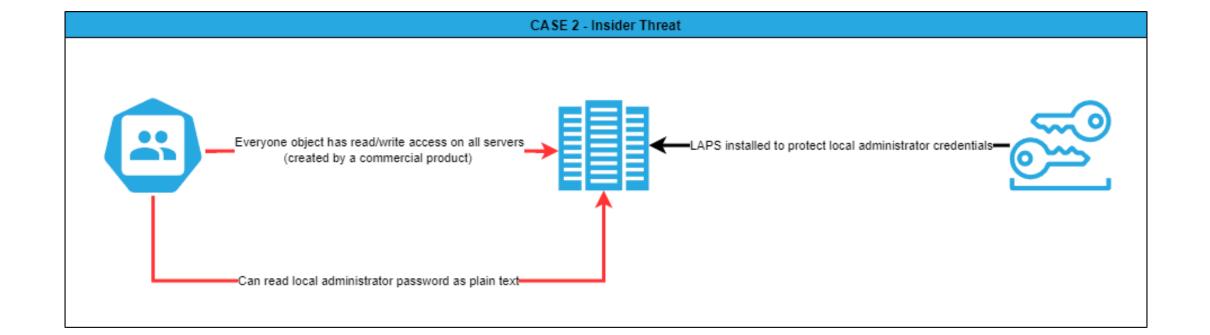
Identity Privilege Analysis

Active Directory specific lateral movement & privilege escalation paths

Red Team – Attack Path Management



Red Team – Privilege Analysis



Vulnerability Assessment

Active Directory specific, mostly unknown vulnerabilities

Blue Team



Compromise Assessment

Active Directory specific backdoors and signs of compromise



Identity Attack Surface & Risk Insight

Incident related reports and identity-based risk scores

Severity	Ease of Mitigation	Eease of Detection	Sign of Compromise
Critical	Medium	Hard	Resource Based Constrained Delegation to KRBTGT
Critical	Medium	Hard	Objects with Suspicious SID-History Attribute
Critical	Medium	Hard	Dangerous ACL Entries on Admin Objects
Medium	Easy	Easy	Suspicious Accounts used as Admin Before
Medium	Easy	Easy	Computers Added by Suspicious Users

Incident Related Reports

Which users have a session on this computer?

Which objects were created/changed in the last hour?

Which objects' passwords were changed in the last hour?

Which objects have domain replication rights?

Which objects can compromise admin accounts? (Stealth admins)

Insider Threat

Advanced Persistent Threat

Ransomware

OUR PRODUCTS



FSProtect AD Security Assessment

AD Vulnerability Assessment, Inventory Enumeration and attack path finding



FSDetect AD Threat Detection

AD based Real-Time attack detection



FSDeceive

AD Deception

AD based deception for creating attractive decoys to lure attackers



FSSimulate

AD Attack Simulation

AD based Attack Simulation for evaluating detection products and Blue Team's agility

Ready

Development

Development

Development



Contact Us



- ⊠ info@forestall.io
- https://forestall.io

Lateral Movement is new front

Essential target is Active Directory