

Configuration Security for Endpoints & Servers

Validator





Endpoint Security Insights

- Organizations were hit by a cyber attack in the last year
- 70% Successful Breaches originate on the Endpoint & Server
- Organizations feel exposed due to lack of visibility of remote endpoints

CONFIGURATION SECURITY WILL HELP REDUCE THESE METRICS



Endpoint Security Quotes

"There are two types of companies: those that have been hacked, and those who don't know they have been hacked.", John Chambers, previous Cisco Chairman & CEO

"Active Directory is #1 attack vector", Daniel Wiley, VP Incident Response, Checkpoint





Misconfiguration Roots



Conflicting Security Rules









Lack of technical skills



Human Errors



Operational Issues & Security Risks



MISCONFIGURATIONS ARE EVERYWHERE



INFRASTRUCTURE ON PREMISES & CLOUD



Microsoft Active Directory



Microsoft Azure AD



Microsoft 365



Microsoft Intune



Amazon

NETWORK



Software Defined Networking

ENDPOINTS & SERVERS



Microsoft Windows



Apple Mac



Linux

MOBILE



Apple



Android

IoT





Services Public Sector Financial High Tech Consumer Mishcon de Reya Mellanox nvidia soda**stream**° **TECHNION** Israel Institute of Technology company DIPLOMA! **Bank Yahav** salesforce gov.ii EL7VAL7X Population and Immigration Authority Playtika Manufacturing Healthcare matrix MINISTRY OF DEFENCE **Cyber Security** Bnai Zion Medical Center INSURANCE COMPANY LTD Check Point M I G D A L CAPITAL MARKETS **Municipality** ADAMA MEDICAL CYBERARK® CENTER

Trusted on over 1 million Endpoints



gytpol Validator

- First and Leading Configuration Security Solution for Endpoints & Servers.
- Unique Product. Detects & remediates security risks caused through misconfigurations & wrongly applied policies. These gaps go undetected by other threat & vulnerability security tools, which are exploited by hackers.
- Enables Visibility. Allows organizations to extend their overall security protection coverage and reduce operational issues.

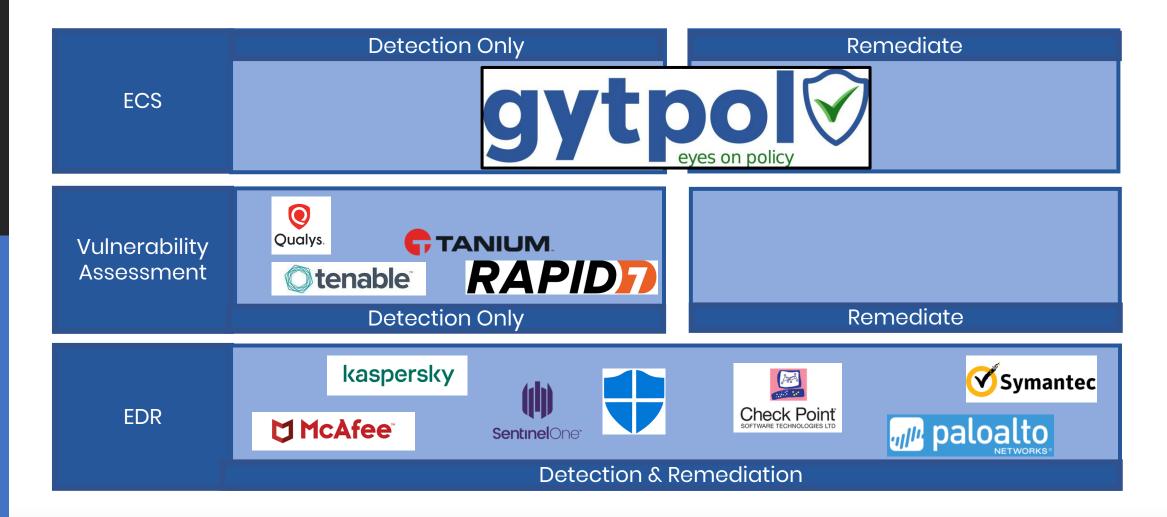


Configuration Security for Endpoints & Servers

- Finds security risks in endpoints overlooked by other tools such as
 EDR, Vulnerability Assessment (VA) and Penetration Testing
- Customers use Gytpol Validator in addition to other security tools.
- Provides a more comprehensive security



Endpoint & Server Security Components





gytpol Validator

First and Leading Solution in Configuration
 Security.

Includes 6 Key Modules

- 1. Configuration Risks
- 2. Policy Validation
- 3. Remote Workforce Analysis
- 4. Compliance & Audit
- 5. Performance Optimization
- 6. Remediation







Configuration Risks



Policy Validation



Remote Workforce Analysis



Compliance and Audit



Performance Optimization



Remediation







Endpoint & Server Configuration Risks

Discovers critical configuration risks in endpoints. Identifies <u>unprotected credentials</u> & <u>clear text passwords</u>. Alerts <u>local admins</u>, <u>unauthorized open ports</u>, <u>inactive anti-virus</u> in endpoints and much more







Policy Validation

Prove Security Policies are applied and work correctly on the Endpoints & Users.

Identifies Active Directory threats. Intune & Group Policy discrepancies & vulnerabilities.

Verifies OS Security Updates







Remote Workforce Analysis

Maintain visibility on employees working from home even if they are not connected to the network by VPN.







Compliance and Audit

Near real-time validation of compliance, supporting GDPR, ISO 27001, NIST, CIS, SOX, PCI DSS, HIPAA. Create and customize your own internal audit rules for validation





Performance Optimization

Improves Start-up and Login times.

Correlates delays with hardware types







Remediation actions allowing issues to be fixed quickly and accurately without risk. Trusted knowledge you can rely on.



Validator Remote Workforce Module

84% OF ORGANIZATIONS FEEL EXPOSED DUE TO LACK OF VISIBILITY OF REMOTE ENDPOINTS

How hackers exploit remote endpoints

- WiFi with weak encryption or fully open
- OS and Policies are not updated or un-patched
- VPN reliability. Encryption fails 40% of the time
- Anti-malware is either deactivated or missing 28% of the time
- Use of home devices to access corporate resources
- Use of unauthorized apps installed on corporate endpoints





Validator Remote Workforce Module

- Provides visibility of Remote Workforce endpoints to IT & SecOps allowing issues & vulnerability to be quickly identified and remediated
- E2E Encryption for Endpoints that are not connected to the network through our public cloud SaaS





Validator Remote Workforce Module

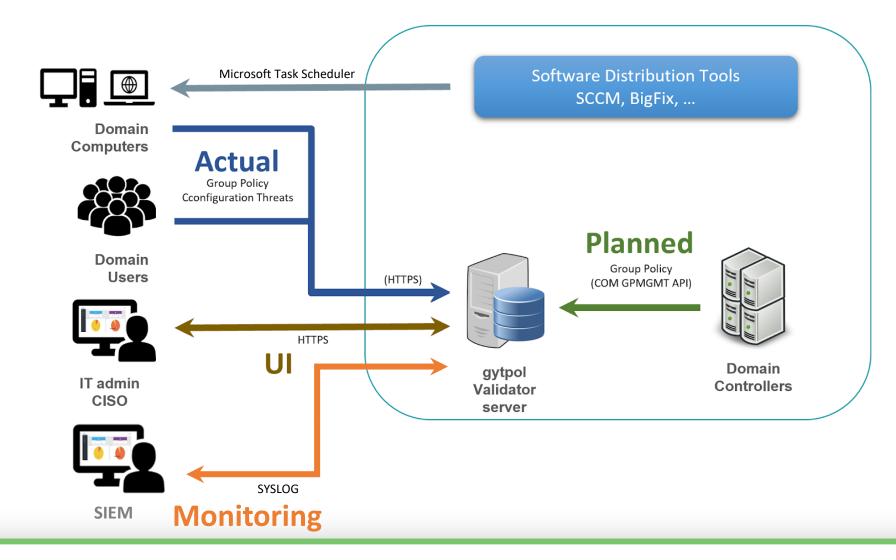
Analysis Includes:

- WiFi connection. Alerts if a weak encryption type or weak password is being used
- Remote Desktop. Reports if the RDS is active. Unless required RDS should be left inactive due to Microsoft vulnerability
- Last time the OS and Policy were updated on the endpoint
- Services. Check essential services are active on the endpoint for continued security

- Geolocation of Endpoint based on real IP Address
- Bitlocker. Alerts if the hard disk volumes are not encrypted. An encrypted hard disk helps prevent malware attacks and if the endpoint is stolen.
- Proxy Redirects. Checks any proxy redirects to another gateway belong to the organization.
- **Firewall**. Checks that endpoint firewall rules are active even when not connected to the organization network



gytpol Validator - How Does It Work?



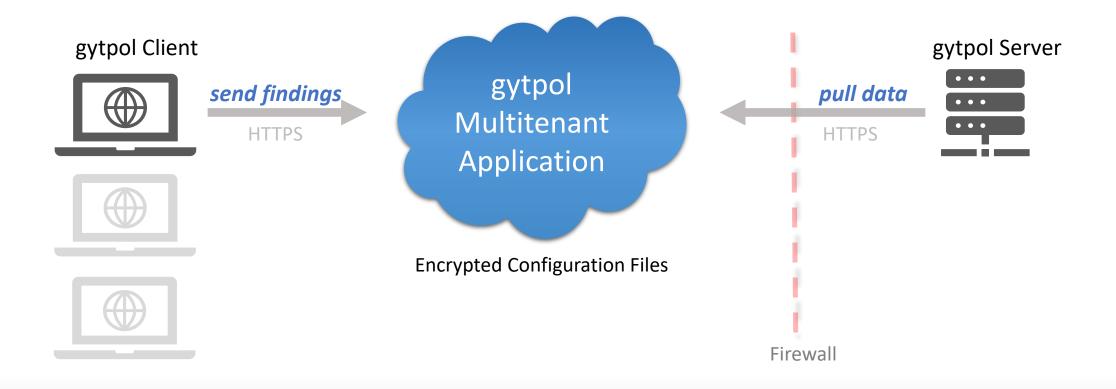


Remote Employees E2E Encryption Architecture

Remote Employees

Public Cloud – MS Azure

Customer Internal NW





Integration with SIEM





- Host Threats
- Unpatched Hosts
- Root Cause for Long Login





:: LogRhythm



And others...



Validator Major Roadmap Features



0-3 months

- M365
- Azure AD
- MacOS





- Microsoft Intune
- Compliance
- Customized Audit
- Multi-language
- Executive Reporting export
- Linux



6-12 months

- Multiple Domains
- Advanced Policy Analysis
- IOS
- Android



Free PoC offer

Free Trial includes the follows:

- Validator Analytics Server
- Validator Dashboard
- Lightweight Endpoint Semi-Agent
- Endpoint Threat Analysis Module
- Remote Workforce Module

- Compliance & Audit Module
- Policy Validation Module
- Endpoint Performance Module
- Security Updates Verification
- Windows PC & Windows Server



DASHBOARD SCREENSHOTS





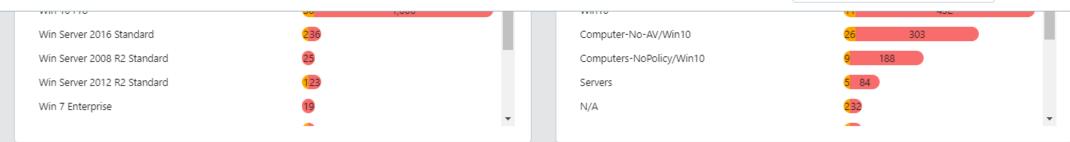
Computer >

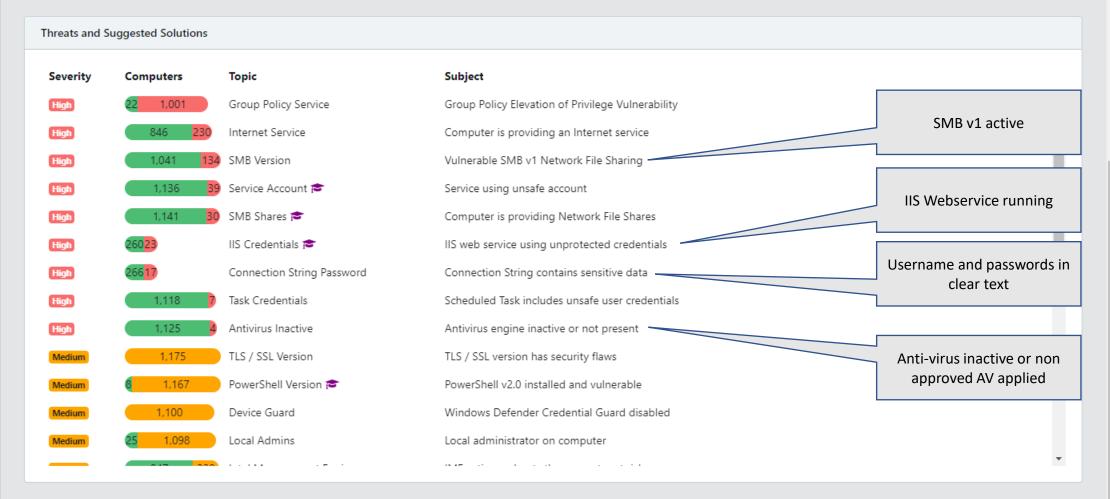


- Policy Validation
- 6d Misconfigurations
- Remote Employees
- Login Profiler

GROUP POLICY ACTIVE DIRECTORY

- Security
- Maintenance
- Compliance
- Auditing
- KnowHow





gytpol€ Computer > ENDPOINTS **Remote Employees** How the endpoint reported Policy Validation Latest OS Line **Endpoint Connectivity to Domain** Misconfigurations over 1 month Remote Employees 1.0k 202 Login Profiler 800 600 **GROUP POLICY ACTIVE DIRECTORY** 400 over 3 months 200 Security over 6 months Scan Time 0.0 under 30 days -0s -0s Maintenance er 1 year Local: 831 VPN: 246 Non-VPN: 33 Undetermined: 12 Compliance When latest OS update was Auditing applied 'Computer' Group Policy Violations 'User' Group Policy Violations Last Policy Refresh on Remote Computer _ Low KnowHow over 1 week -Low 65 High 268 Medium 22 86 over 2 weeks 190 Medium over 1 month over 2 months **└** High When latest policies were Remote Computer Vulnerabilities - Remote Specific Metrics Remote Computer Vulnerabilities - General Metrics applied Computers Topic Subject Computers Topic Subject Severity Remote Desktop service active Group Policy Serv... Group Policy Elevation of Privilege Vulnerab... Remote Desktop Windows Update... Windows Updates or WSUS are misconfigur... Internet Service Computer is providing an Internet service



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Computer **▼**

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ENDPOINTS

- Policy Validation
- 63 Misconfigurations
- Remote Employees
- O Login Profiler

GROUP POLICY ACTIVE DIRECTORY

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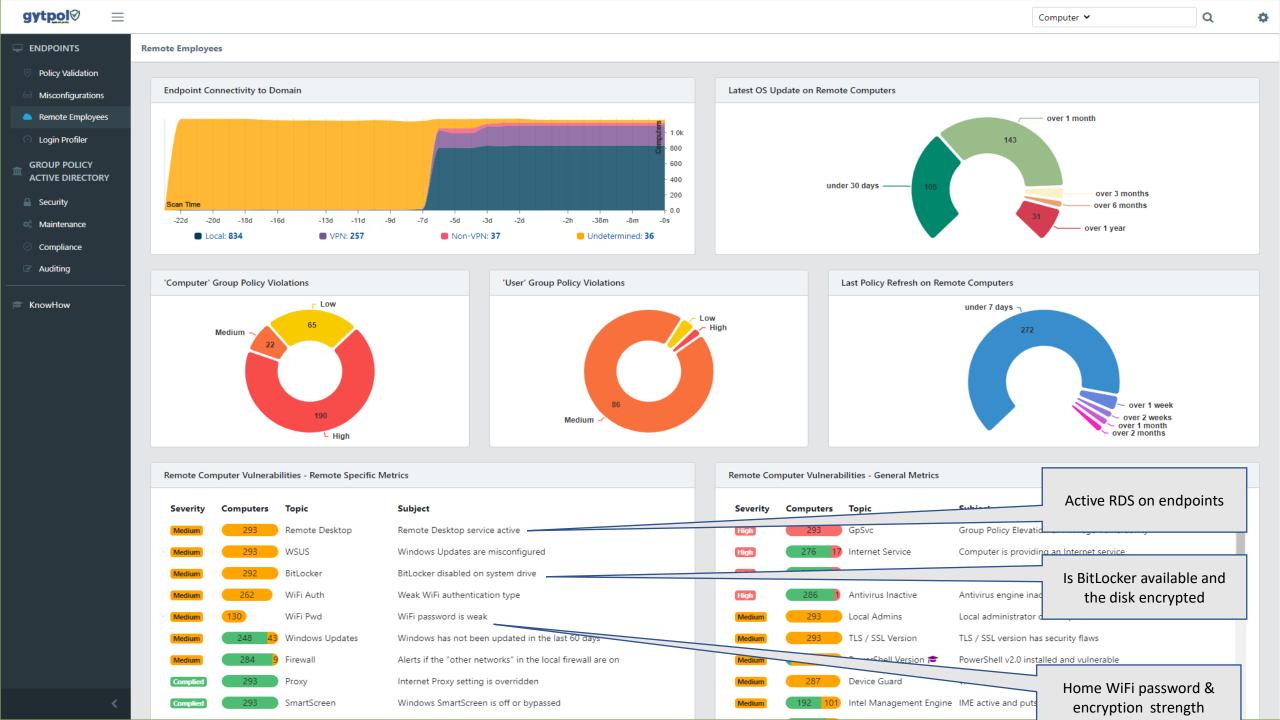
Computers with Policy Alerts by Org. Unit					
Org. Unit	Failures	Comput	GPOs		
Win10/Computer-No-AV	219 32 <mark>76</mark>	197	11		
Win10	12114	123	5		
Win10/Computers-NoPolicy	3371	39	5		
UsersGeneral/IT Users	179	10	4		
W7-8/Computers-NoPolicy	@	5	4		
			View All		

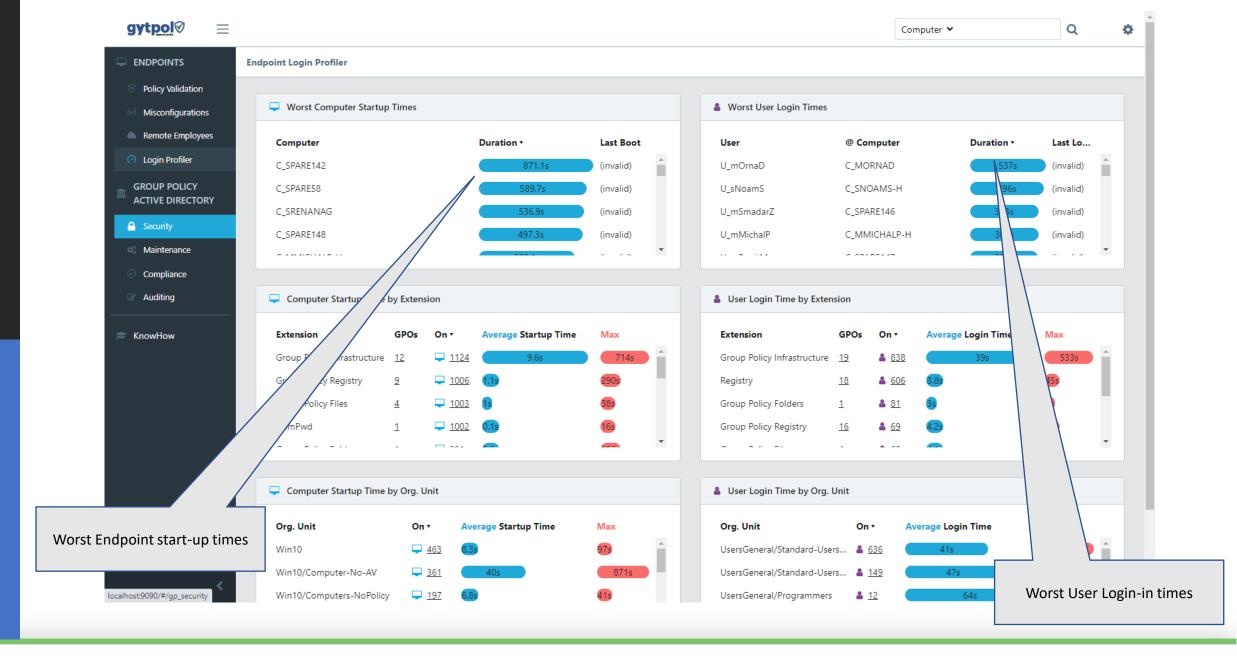
Computers with Policy Alerts by G	SPO	
GPO	Failures	Comput
GP-App	176 7	182
Security-GP	130	130
Local Group Policy	95	84
FW_Log	71	14
Default Domain Policy	13	13
		View All

os	Failures	Scanned
Windows 10	93 376 50	1056
Windows 7	14112	20
Windows Server 2016	2	37
Windows Server 2012	2	24
Windows Server 2008	2	18

Users with Policy Alerts by Org. Unit			
Org. Unit	Failures	Users	GPOs
UsersGeneral/Standard-Users/UsersA	13 195 3	140	9
UsersGeneral/Standard-Users/UsersX	3191	8	9
UsersGeneral/Programmers	1)	9	1
UsersGeneral/IT Users	8	2	1
UsersGeneral/HD Users	3	2	1
			View All

Users with Policy Alerts by GPO		
GPO	Failures	Users
Office 2010	166	124
Old Default Domain Policy	25	22
(see Addl. Info)	16	16
Warning: The setting refers to a non-existing GPO	13	7
GP-App	82	9
		View All







QUESTIONS?



