≡≡≡ Lepide

ENABLEMENT GUIDE

ENABLING LEPIDE FOR

THREAT DETECTION AND RESPONSE

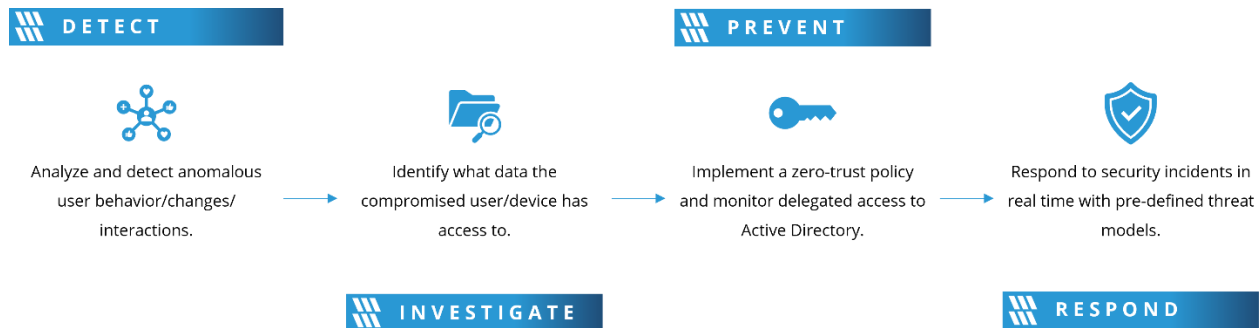# Table of Contents

1. Introduction

Threat detection is still a huge challenge for organizations today – hackers are agile, fast and smart. While many 'traditional' vendors claim high threat detection rates not one security vendor out there can detect 100% of threats and it only takes one threat to break through and then the whole network is vulnerable.

Most security vendors have little or no understanding as to the inner workings of Active Directory or Windows File Systems, which limit their value when trying to detect and investigate threats as they propagate across the corporate network.

99% of all security threats will utilize Active Directory as their means of spreading across the network, and if the objective of the hacker is to steal, leak or in some way restrict access to corporate data most security vendors offer little or no context in this area. Most security vendors also cannot provide any context as to what sensitive data is or what was affected by the threat which makes investigations less impactful, slower and less efficient.

2. Aligning Lepide for Threat Detection and Response

There are a number of key questions that you need to be able to answer to be able to detect, investigate and respond to threats.

DETECT   **PREVENT**

Analyze and detect anomalous user behavior/changes/ interactions.

Identify what data the compromised user/device has access to.

Implement a zero-trust policy and monitor delegated access to Active Directory.

Respond to security incidents in real time with pre-defined threat models.

INVESTIGATE   **RESPOND**

In the below table, we align Lepide technology to these questions:

Category	Actions to Take	Technology to implement
Detect	Spot anomalous logon activity in Active Directory.	Anomaly Spotting (Lepide Detect) Logon/Logoff Auditing (Lepide Audit) Failed Logon Report (Lepide Audit)

		Successful User Logon/Logoff Report ([Lepide Audit](#))
		User Logged on Multiple Computers Report ([Lepide Audit](#))
		Concurrent Logons Report ([Lepide Audit](#))
		Domain Controller Logon/Logoff Report ([Lepide Audit](#))
		Brute Force Attack Threat Model ([Lepide Detect](#))
	Track persistent and anomalous account lockout activities.	Account Lockout Report ([Lepide Audit](#))
		Anomaly Spotting ([Lepide Detect](#))
	Identify when and how privileges are being escalated.	Permissions Escalation (Groups) Threat Model ([Lepide Detect](#))
		Permissions Escalation (File) Threat Model ([Lepide Detect](#))
		Permissions Escalation (Folder) Threat Model ([Lepide Detect](#))
		Excessive Permissions by User Report ([Lepide Trust](#))
		Permissions by User Report ([Lepide Trust](#))
		Users with Admin Privileges Report ([Lepide Trust](#))
		Historical Permissions Active Directory Analysis Report ([Lepide Trust](#))
		Historical Permissions File Server Analysis Report ([Lepide Trust](#))

			Historical Permissions Exchange Server Analysis Report (Lepide Trust)
	Track failed access attempts on sensitive data.		Read Failed Report (Lepide Audit) Failed Access Attempts Alert (Lepide Detect)
	Identify suspicious or anomalous activity around sensitive files and folders.		All Modifications in File Server Report (Lepide Audit) Files Renamed Report (Lepide Audit) Read Failed Report (Lepide Audit) All Environment Changes Report (Lepide Audit) Sensitive Data Classification Report (Lepide Identify) Anomaly Spotting (Lepide Detect) All Data Related Threat Models (Lepide Detect)
	Detect behavior that could indicate that Active Directory credentials have/are been stolen/abused/misused.		Permissions Escalation (Groups) Threat Model (Lepide Detect) Permissions Escalation (File) Threat Model (Lepide Detect) Permissions Escalation (Folder) Threat Model (Lepide Detect) Anomaly Spotting (Lepide Detect) All Environment Changes Report (Lepide Audit)

	Detect lateral movement in Active Directory and track the path of the threat.	Permissions Escalation (Groups) Threat Model ([Lepide Detect](#))
		Potential Ransomware Attack Threat Model ([Lepide Detect](#))
		All Environment Changes Report ([Lepide Audit](#))
		All Modifications in Active Directory Report ([Lepide Audit](#))
		All Modifications in Group Policy Reports ([Lepide Audit](#))
		Anomaly Spotting ([Lepide Detect](#))
		Historical Permissions in Active Directory and File Server Report ([Lepide Trust](#))
Investigate	See what data a compromised user/device has access to	Permissions by User Report ([Lepide Trust](#))
		Users with Admin Privileges Report ([Lepide Trust](#))
		Open Shares Report ([Lepide Trust](#))
		Excessive Permissions by User Report ([Lepide Trust](#))
		Excessive Permissions by Object Report ([Lepide Trust](#))
Prevent	Identify and reduce domain admin privileges within the business to reduce the threat.	Excessive Permissions by User Report ([Lepide Trust](#))
		Users with Admin Privileges Report ([Lepide Trust](#))
		All Permissions to an Object Report ([Lepide Trust](#))
		Permission Comparison of an Object Report ([Lepide Trust](#))

		Permissions Modifications Report (Lepide Trust)
		All Group Policy Modifications Reports (Lepide Trust)
		Permissions by User Report (Lepide Trust)
	Identify and resolve over privileged service accounts.	Excessive Permissions by User Report (Lepide Trust)
		Users with Admin Privileges Report (Lepide Trust)
		All Permissions to an Object Report (Lepide Trust)
		Permission Comparison of an Object Report (Lepide Trust)
		Permissions Modifications Report (Lepide Trust)
		All Group Policy Modifications Reports (Lepide Trust)
		Permissions by User Report (Lepide Trust)
	Track and monitor delegated access to my Active Directory.	Users with Admin Privileges Report (Lepide Trust)
		Permissions by User Report (Lepide Trust)
		Inactive Users Report (Lepide Audit)
		Excessive Permissions by User Report (Lepide Trust)
		All Permissions to an Object Report (Lepide Trust)
		Permission Comparison of an Object Report (Lepide Trust)
		Permissions of an Object Report (Lepide Trust)

		Permissions Modifications Report ([Lepide Trust](#))
Respond	Respond to security incidences/threats.	**Any Threat Model Triggered** ([Lepide Detect](#))

3.   Lepide Core Capabilities

3.1. - Lepide Identify

Automatically scan, discover and classify data at the point of creation to help you stay on top of where your sensitive data is located. Remove false positives with proximity scanning technology. This helps to improve the accuracy even further than most classification solutions. Categorize and score data based on compliance, risk, occurrence, monetary value, and more to stay on top of your most sensitive data.

Lepide Identify

Drag a column header here to group by that column

Component Name	File	Content Type	Count
File Server	Trevor.xlsx	US Driver's Lice...	1
File Server	Anna.xlsx	US Driver's Lice...	1
File Server	David.csv	US Driver's Lice...	1
File Server	Salaries.csv	National Insura...	135
File Server	Budget.ppt	Credit Card Info...	5
File Server	Pre-notes.docx	Credit Card Info...	5
File Server	LetterToCEO.docx	National Insura...	10
File Server	Paul.xlsx	US Driver's Lice...	1
File Server	Philip.xlsx	US Driver's Lice...	1

In Summary:

- Discover and classify data in real Tag data.
- Data valuation.
- Identify data most at risk.

For More Information:

https://www.lepide.com/data-security-platform/data-classification.html

3.2. - Lepide Trust

Report on who has access to your most sensitive data and how they were granted that access. Specific reports for users with excessive permissions enable you to spot which users are most likely to be insider threats. Maintain your zero-trust policy by spotting when permissions change and reversing them.
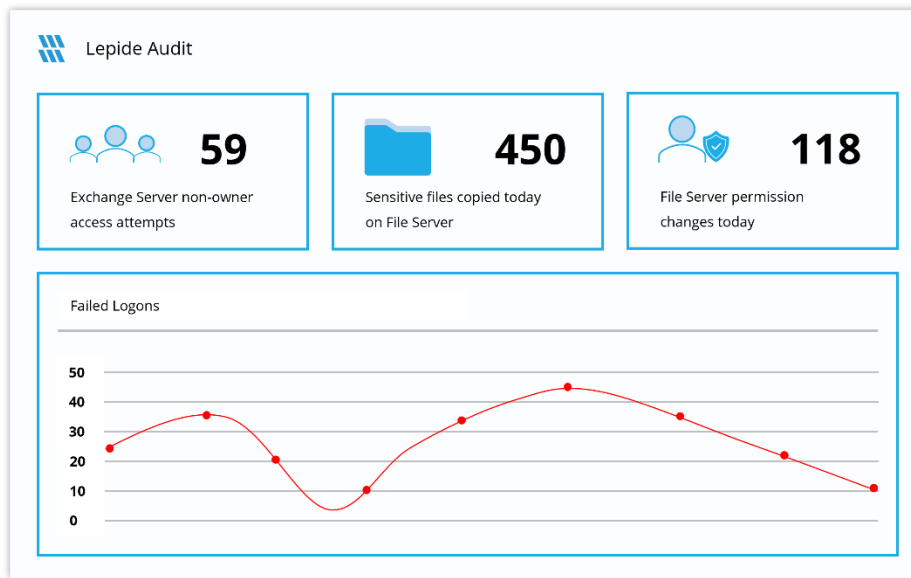

In Summary:

- Analyse permissions.
- Identify over privileged employees (least privilege).
- View historic permissions.
- Track permission changes.

For More Information:

https://www.lepide.com/data-security-platform/permissions-and-privileges-analysis.html

3.3. - Lepide Audit

Audit, report and alert on changes being made to sensitive data and your hybrid environment. Roll back unwanted changes and restore deleted objects to maintain system integrity. Track any changes and modifications users are making to critical files and folders.

In Summary:

- View interactions with data.
- View interactions with systems governing access to data.
- Employee audit logs.
- Investigate incidents and breach scenarios.

For More Information:

https://www.lepide.com/data-security-platform/audit-and-report-changes.html

3.4. - Lepide Detect

Machine Learning backed anomaly spotting technology will allow you to determine when one of your users becomes an insider threat. Hundreds of threat models, tailored to specific data security threats, generate real time alerts when the security of your data is in jeopardy. Automated threat responses can be triggered to perform threat mitigations, such as shutting down an affected computer or server.

In Summary:

- Detect threats in real time with pre-defined threat models.
- Baseline/profile employee behavior.
- Identify anomalous employee behavior.
- Alert and respond to threats in real time.

For More Information:

https://www.lepide.com/data-security-platform/react-to-data-security-threats-and-anomalies.html

4. Support

If you are facing any issues whilst installing, configuring, or using the solution, you can connect with our team using the contact information below.

Product Experts

USA/Canada: +1(0)-800-814-0578

UK/Europe: +44 (0) -208-099-5403

Rest of the World: +91 (0) -991-004-9028

Technical Gurus

USA/Canada: +1(0)-800-814-0578

UK/Europe: +44 (0) -208-099-5403

Rest of the World: +91(0)-991-085-4291

Alternatively, visit https://www.lepide.com/contactus.html to chat live with our team. You can also email your queries to the following addresses:

sales@Lepide.com

support@Lepide.com

To read more about the solution, visit https://www.lepide.com/data-security-platform/.

5. Trademarks

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