Lepide

ENABLEMENT GUIDE

ALIGNING LEPIDE FOR

THREAT DETECTION AND RESPONSE

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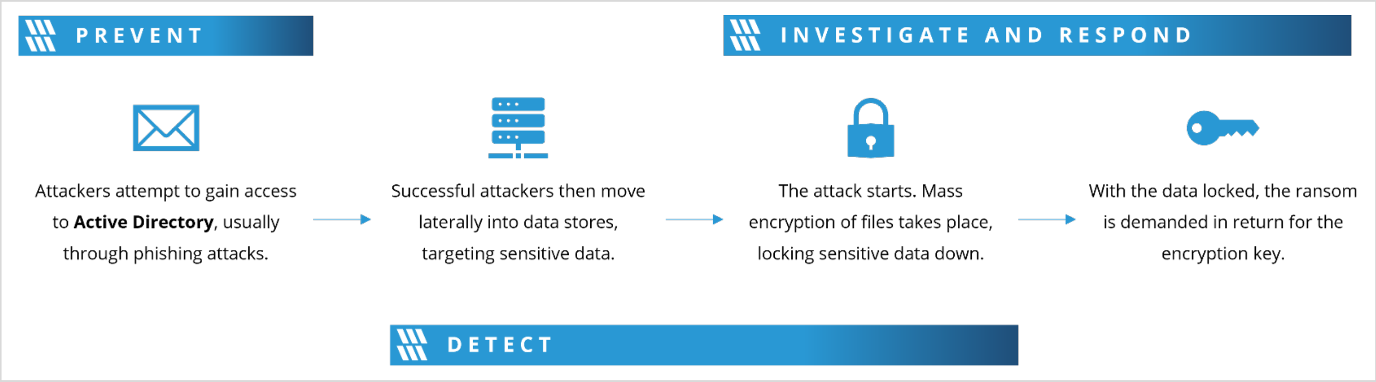
1. Introduction

Threat detection is still a huge challenge for organizations today – hackers are agile, fast and smart. When we use the term threat here, we're referring to malware or some form of external brute force attack. 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, 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 can't 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.



Attackers attempt to gain access to **Active Directory**, usually through phishing attacks.

Successful attackers then move laterally into data stores, targeting sensitive data.

The attack starts. Mass encryption of files takes place, locking sensitive data down.

With the data locked, the ransom is demanded in return for the encryption key.

In the table below, 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) Permissions Remediation (Lepide Protect)
	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 our business to reduce the threat.	Excessive Permissions by User Report (Lepide Trust) Users with Admin Privileges Report (Lepide Trust)

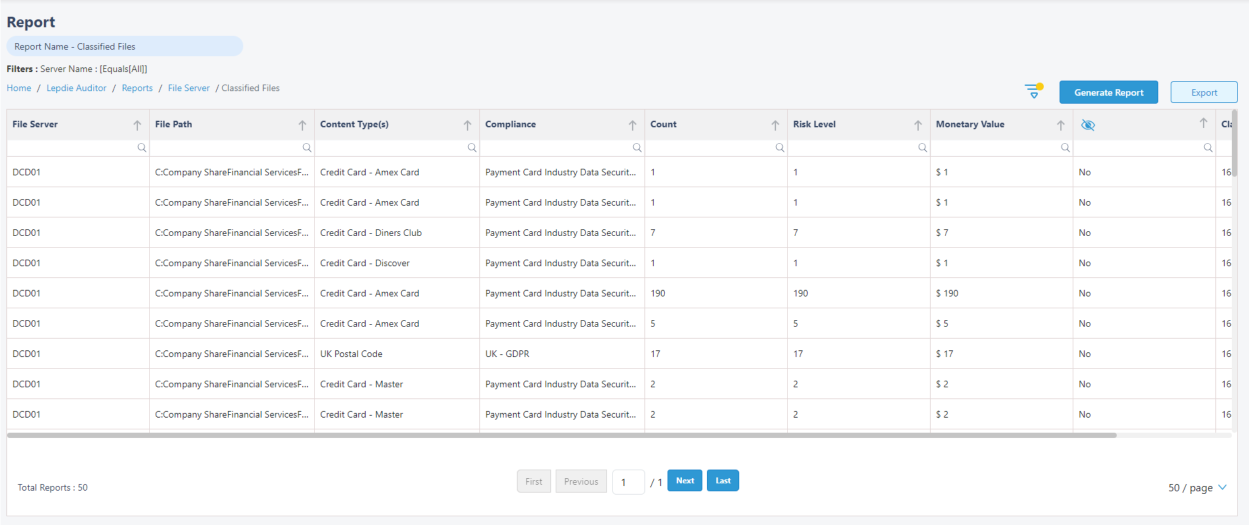
		All Permissions to an Object Report (Lepide Trust) Permission Comparison of an Object Report (Lepide Trust) Permissions Modifications Report (Lepide Trust) All Group Policy Modifications Reports (Lepide Trust) Permissions by User Report (Lepide Trust) Permissions Remediation (Lepide Protect)
	Identify 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) Permissions Remediation (Lepide Protect)
	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)

		Remove Inactive Users (Lepide Protect) 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.



Report

Report Name - Classified Files

Filters : Server Name : [Equals[All]]

Home / Lepdie Auditor / Reports / File Server / Classified Files

File Server	File Path	Content Type(s)	Compliance	Count	Risk Level	Monetary Value		Cla
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Amex Card	Payment Card Industry Data Securit...	1	1	$ 1	No	16
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Amex Card	Payment Card Industry Data Securit...	1	1	$ 1	No	16
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Diners Club	Payment Card Industry Data Securit...	7	7	$ 7	No	16
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Discover	Payment Card Industry Data Securit...	1	1	$ 1	No	16
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Amex Card	Payment Card Industry Data Securit...	190	190	$ 190	No	16
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Amex Card	Payment Card Industry Data Securit...	5	5	$ 5	No	16
DCD01	C:Company ShareFinancial ServicesF...	UK Postal Code	UK - GDPR	17	17	$ 17	No	16
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Master	Payment Card Industry Data Securit...	2	2	$ 2	No	16
DCD01	C:Company ShareFinancial ServicesF...	Credit Card - Master	Payment Card Industry Data Securit...	2	2	$ 2	No	16

Total Reports : 50

In Summary:

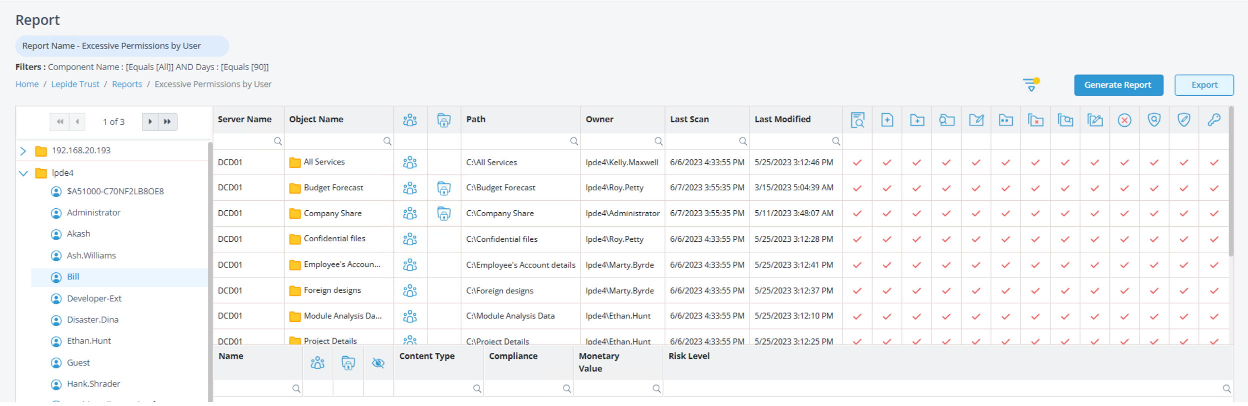
- Discover and classify data in real Tag data.
- Data valuation.
- Identify data most at risk.

For More Information:

https://www.lepide.com/lepide-identify/

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.



Report

Report Name - Excessive Permissions by User

Filters : Component Name : [Equals [All]] AND Days : [Equals [90]]

Home / Lepide Trust / Reports / Excessive Permissions by User

Server Name	Object Name			Path	Owner	Last Scan	Last Modified													
DCD01	All Services	👥		C:\All Services	lpde4\Kelly.Maxwell	6/6/2023 4:33:55 PM	5/25/2023 3:12:46 PM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DCD01	Budget Forecast	👥	🔒	C:\Budget Forecast	lpde4\Roy.Petty	6/7/2023 3:55:35 PM	3/15/2023 5:04:39 AM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DCD01	Company Share	👥	🔒	C:\Company Share	lpde4\Administrator	6/7/2023 3:55:35 PM	5/11/2023 3:48:07 AM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DCD01	Confidential files	👥		C:\Confidential files	lpde4\Roy.Petty	6/6/2023 4:33:55 PM	5/25/2023 3:12:28 PM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DCD01	Employee's Accoun...	👥		C:\Employee's Account details	lpde4\Marty.Byrde	6/6/2023 4:33:55 PM	5/25/2023 3:12:41 PM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DCD01	Foreign designs	👥		C:\Foreign designs	lpde4\Marty.Byrde	6/6/2023 4:33:55 PM	5/25/2023 3:12:37 PM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DCD01	Module Analysis Da...	👥		C:\Module Analysis Data	lpde4\Ethan.Hunt	6/6/2023 4:33:55 PM	5/25/2023 3:12:10 PM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DCD01	Project Details	👥		C:\Project Details	lpde4\Ethan.Hunt	6/6/2023 4:33:55 PM	5/25/2023 3:12:25 PM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Name				Content Type	Compliance	Monetary Value	Risk Level

In Summary:

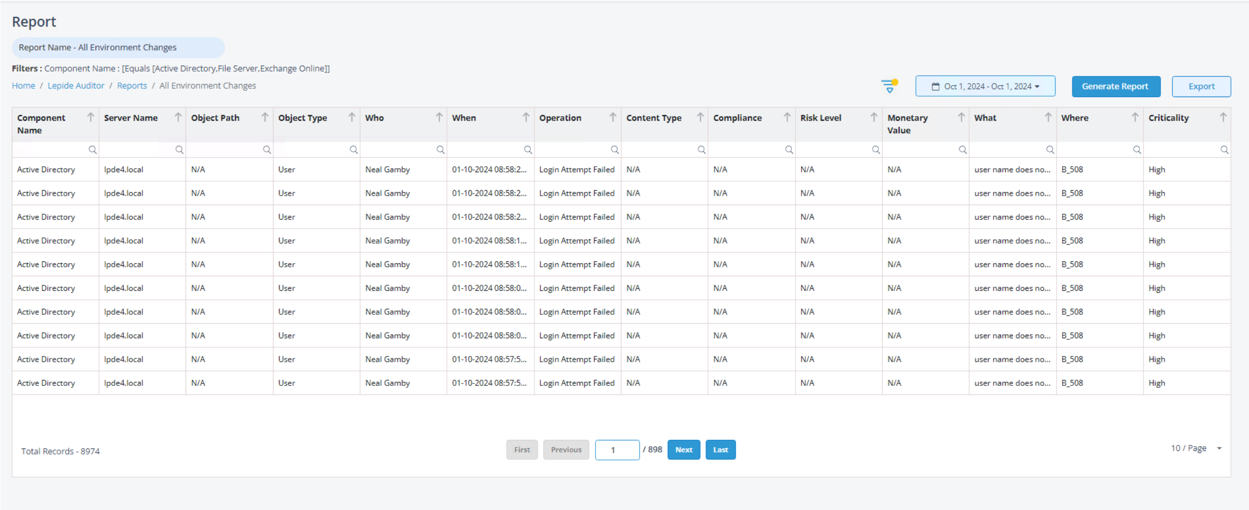
- Analyse permissions.
- Identify over privileged employees (least privilege).
- View historic permissions.
- Track permission changes.

For More Information:

https://www.lepide.com/lepide-trust/

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.



Report

Report Name - All Environment Changes

Filters : Component Name : [Equals [Active Directory,File Server,Exchange Online]]

Home / Lepide Auditor / Reports / All Environment Changes

Component Name	Server Name	Object Path	Object Type	Who	When	Operation	Content Type	Compliance	Risk Level	Monetary Value	What	Where	Criticality
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:2...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:2...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:2...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:1...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:1...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:0...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:0...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:58:0...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:57:5...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High
Active Directory	lpde4.local	N/A	User	Neal Gamby	01-10-2024 08:57:5...	Login Attempt Failed	N/A	N/A	N/A	N/A	user name does no...	B_508	High

Total Records - 8974

In Summary:

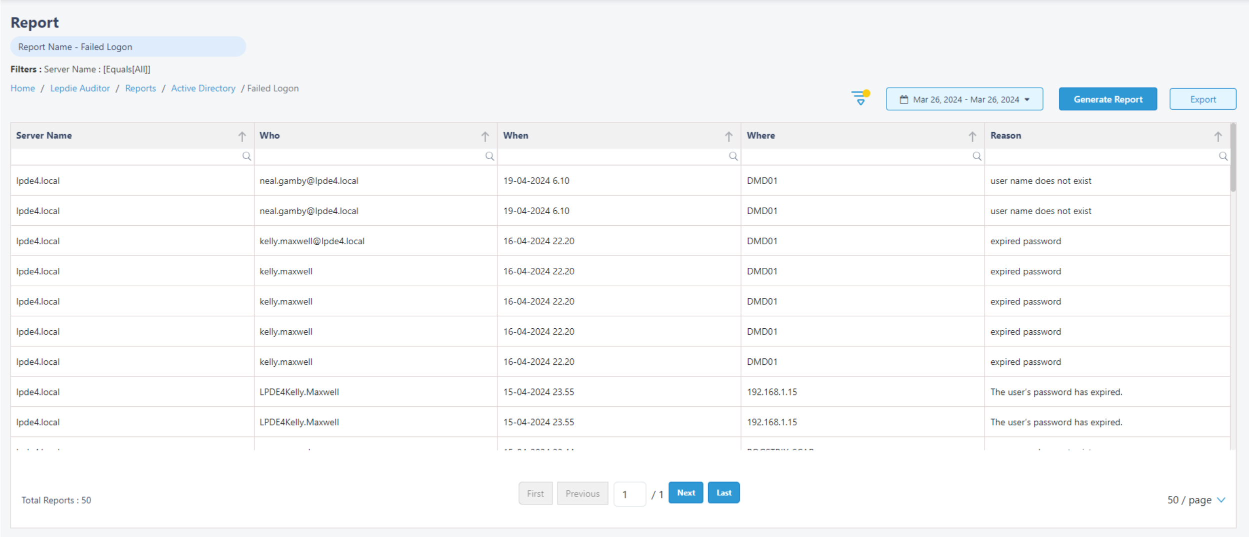
- View interactions with data.
- View interactions with systems governing access to data.
- Employee audit logs.
- Investigate incidents and breach scenarios.

For More Information:

https://www.lepide.com/lepideauditor/

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.



Report

Report Name - Failed Logon

Filters : Server Name : [Equals[All]]

Home / Lepdie Auditor / Reports / Active Directory / Failed Logon

Server Name	Who	When	Where	Reason
lpde4.local	neal.gamby@lpde4.local	19-04-2024 6.10	DMD01	user name does not exist
lpde4.local	neal.gamby@lpde4.local	19-04-2024 6.10	DMD01	user name does not exist
lpde4.local	kelly.maxwell@lpde4.local	16-04-2024 22.20	DMD01	expired password
lpde4.local	kelly.maxwell	16-04-2024 22.20	DMD01	expired password
lpde4.local	kelly.maxwell	16-04-2024 22.20	DMD01	expired password
lpde4.local	kelly.maxwell	16-04-2024 22.20	DMD01	expired password
lpde4.local	kelly.maxwell	16-04-2024 22.20	DMD01	expired password
lpde4.local	LPDE4Kelly.Maxwell	15-04-2024 23.55	192.168.1.15	The user's password has expired.
lpde4.local	LPDE4Kelly.Maxwell	15-04-2024 23.55	192.168.1.15	The user's password has expired.

Total Reports : 50

In Summary:

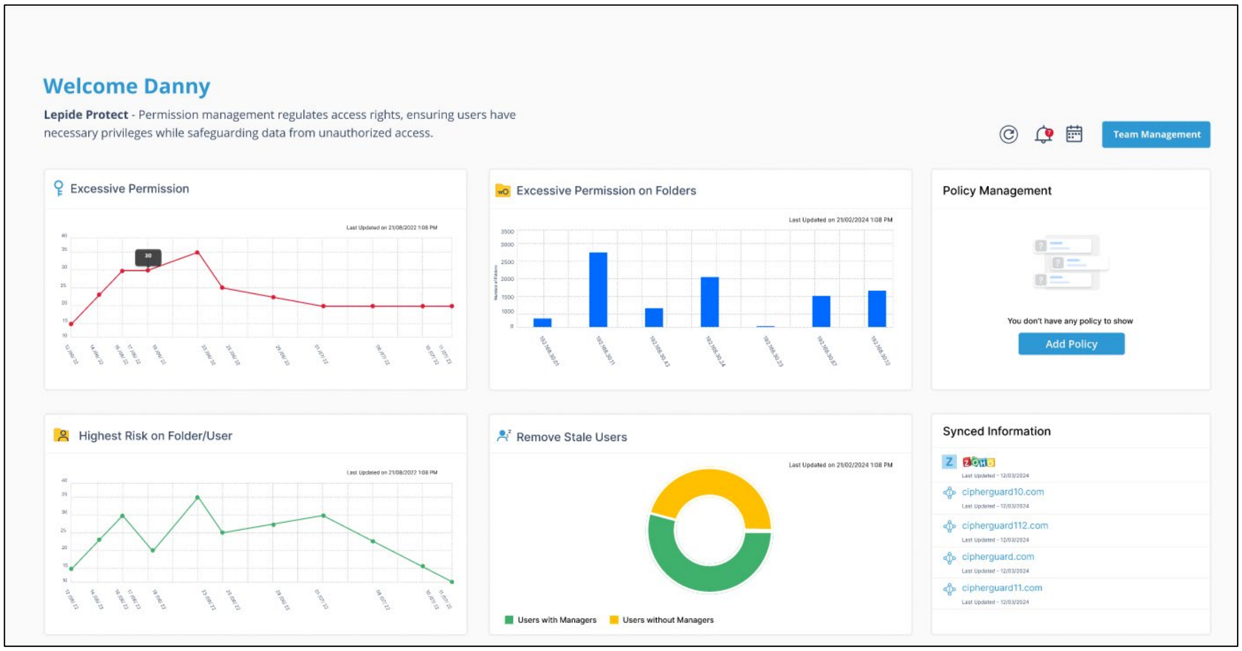
- Detect threats in real time with pre-defined threat models.
- Baseline/profile employee behavior.
- Identify anomalous employee behavior.
- Alert and respond to threats in real time.

For More Information:

https://www.lepide.com/lepide-detect/

3.5. - Lepide Protect

Reduce the complexity of managing user permissions. The permissions management system within Lepide Protect provides a straightforward and efficient way to manage permissions over all shared locations. It provides clear visibility as to who has access to what, including identifying excessive permissions. Once identified, excessive permissions can be revoked, and inactive users removed; permissions policies can be used to do this automatically.



Welcome Danny

Lepide Protect - Permission management regulates access rights, ensuring users have necessary privileges while safeguarding data from unauthorized access.

You don't have any policy to show

Team Management
Excessive Permission
Last Updated on 21/08/2022 1:08 PM
40
35
30
25
20
15
10
30
Excessive Permission on Folders
Last Updated on 21/02/2024 1:08 PM
3500
3000
2500
2000
1500
1000
0
Number of Folders
Policy Management
Add Policy
Highest Risk on Folder/User
Last Updated on 21/08/2022 1:08 PM
40
35
30
25
20
15
10
Remove Stale Users
Last Updated on 21/02/2024 1:08 PM
Users with Managers
Users without Managers
Synced Information
ZOHO
Last Updated - 12/03/2024
cipherguard10.com
Last Updated - 12/03/2024
cipherguard112.com
Last Updated - 12/03/2024
cipherguard.com
Last Updated - 12/03/2024
cipherguard11.com
Last Updated - 12/03/2024

In Summary:

- Identify and revoke excessive permissions.
- Remove inactive users to reduce your threat surface.
- Delegate permissions management to team leaders.
- Use policy management to automatically revoke permissions.

For More Information:

https://www.lepide.com/lepide-protect/

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	Technical Gurus
USA/Canada: +1(0)-800-814-0578	USA/Canada: +1(0)-800-814-0578
UK/Europe: +44 (0) -208-099-5403	UK/Europe: +44 (0) -208-099-5403
Rest of the World: +91 (0) -991-004-9028	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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