



Axcelios[™]
Cyber-Insight

Axcelios

CYBER-INSIGHT SOLUTION

Unlocking business continuity by
preventing Cyber-Attacks

INTELLIGENTLY..

DYNAMICALLY & INSTANTLY!

It has been said, we are living the Data age!

Data is the most valuable asset for all businesses across all industries and business types. It is the fuel of profits and business sustainability.

“One in five SMBs who paid the ransom never got their data back! Having a Cyber-Recovery strategy is not an option any more for business continuity & availability.”

“Axcelios Cyber-Insight Solution has been identified as the - New ERA - of Air-Gap Network Automation and Cyber Recovery.

INTELLIGENTLY: Isolate, Automate, Detect & Recover from Cyber-Attacks”

Using guidelines, standards, and practices, the NIST CSF focuses on five core functions: Identify, Protect, Detect, Respond and Recover. These categories cover all aspects of cybersecurity, which makes this framework a complete, risk-based approach to securing almost any organization

OVERVIEW

Cybercrime, Ransomware attacks and hacking are going harmful against businesses with increased losses and market credibility. They are getting vast like never before, non-stop! The cost per attack continues to increase, no exception for any business size or industry type. Business blackmailing and abuse resulted by Cyber-Attacks and Ransomware are

noticeable! Weak or absence of Data protection, Data Isolation and Data Recovery gives better chance for data destruction. In such case, the backup is under attack. Unfortunately, there are several vulnerable gaps because backups were designed for accessibility, and not necessarily for security.

FACTS



% 87

More than two-thirds of organizations (69%) were victimized by ransomware and most (57%) paid the ransom

Source: Cyberthreat Defense Report



287 Days

In 2020, the average time to identify a breach was 287 days

Source: IBM



% 43

Of cyberattacks target small businesses

Source: Cyberint



\$4.24 million

Is the Global average total cost of a data breach

Source: IBM



% 80.7

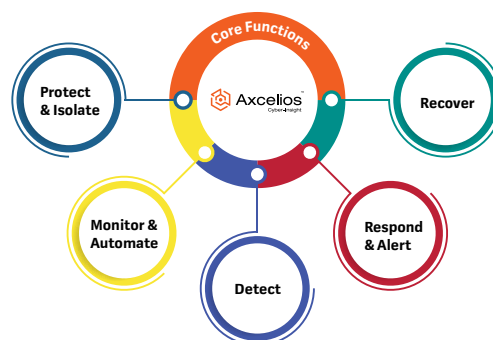
of organizations compromised by at least one successful attack in 2020

Source: 2021 Cyberthreat Defense Report

DISCOVER THE Axcelios CYBER-INSIGHT SOLUTION

The Axcelios Cyber-Insight solution empowers “Mission-Critical” business data in a secure, Air-Gapped ‘VAULT’ environment for recovery or analysis purposes. The Cyber-Insight Vault is physically fully isolated from the production system or the network. Axcelios Cyber-Insight solution has been intelligently designed to monitor data replication processes from produc-

tion network to the isolated vault. This keeps the Network connection open “conditionally & dynamically” during data replication activities. This occurs automated secure Airgap network for business-critical data. During idle times, Axcelios Cyber-Insight solution vault is totally secured with network disconnected.



Protect and Isolate

Protect your critical data in an Isolated network away from your production Data.

Monitor and Automate.

Automate your Data isolation with Dynamic AIRGAPING that not only control the physical connectivity but also monitor the data replication

Detect

Have the required visibility on your critical data by the Backup Insights & Analysis, Know exactly what is infected and what is clean and Recover with Confidence

Respond and Alert

Smart Respond and alert system using SMTP and SMS

Recover

Be ready with your recovery plan.

Axcelios Cyber-Insight Solution has been identified as the - New ERA - of Air-Gap Network Automation and Cyber Recovery.
INTELLIGENTLY: Isolate, Automate, Detect & Recover from Cyber-Attacks

Axcelios is the definition of combined Excellencies

- **Empowering "Mission-Critical" Data in a secure, Air-Gapped 'VAULT' environment**
- **Intelligently designed to monitor "Data Replication" Processes from production network to the isolated VAULT**
- **Ensure validity and "Clean Backup" images from any Ransomware**
- **Recover "Critical Business Application(s)" with all its dependencies with few guided clicks**
- **Dynamically, automate restoration process inside the VAULT. Alternatively, it can be implemented with in production site to automate the recovery process**

"Axcelios Cyber-Insight, includes the capability to configure automated workflow to monitor the backup replication jobs with fixed or dynamic time window"

Axcelios Cyber-Insight taking the whole process to the next-level!

It builds recovery template; ensuring recovery procedures readiness and in-place. It helps to recover "Critical Business Application(s)" with all its dependencies with few guided clicks. It is used – effectively - to automate the restoration process inside the vault.

Axcelios CYBER-INSIGHT FEATURES:

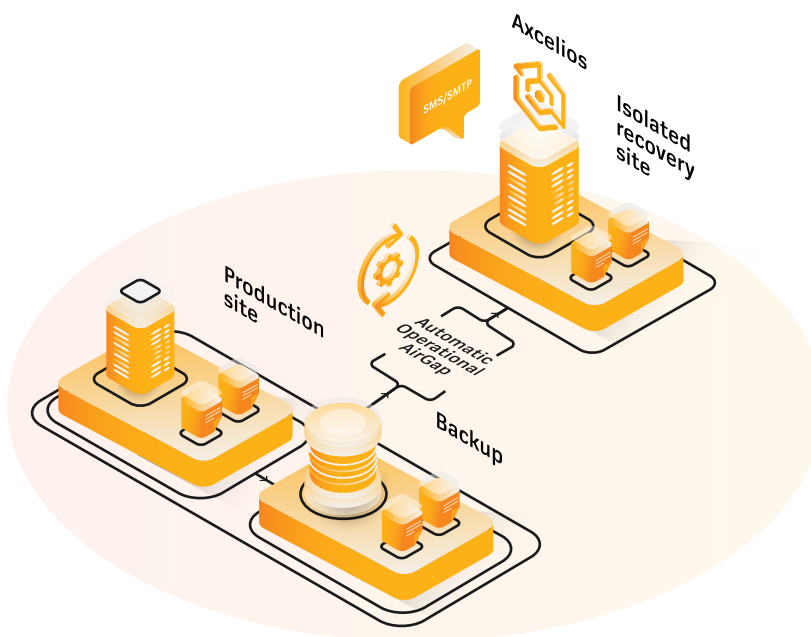
- **AIR-GAP NETWORK AUTOMATION**
Automates the Air-Gap isolated Network to have secure copy from data in isolated air gapped network.
- **Backup Insights & Analysis**
Instant automated alert in case if abnormal or malicious Ransomware activity discovered in the replicated backup images within the isolated vault site. In addition, it utilizes this main feature to validate backup images are clean from any ransomware. It identifies infected backup images to have actual and instant insight during the recovery process.
- **RECOVERY PROFILES**
This intelligent module helps in building predefined recovery profiles to automate the recovery process for each Application with all its dependencies in working state with few clicks.

HOW DOES THE Axcelios CYBER-INSIGHT WORK?

AIR-GAP NETWORK AUTOMATION

Axcelios Cyber-Insight, provides complete-set of automation and management for network components in the isolated vault site to automate the Air-Gap network to be accessed only during the data replication process and physically disconnected during idle times.

The Air-Gap Network Automation module, offers unique workflow feature that can be utilized to provide the Air-Gap network isolation for any segment within your network. It isolates and protect your isolated site "Vault" in the same production site, your replication to DR site or isolate the replication to your cloud.



Axcelios CYBER-INSIGHT PROACTIVE ALERTING SYSTEM:

Instant, Ready and Accurate!

Upon instant detection of anomalous behavior or Ransomware attacks by Axcelios Cyber-Insight, an alert is automatically generated and sent to network administrators. It differentiates high or low number of encryption indicators.

This alerting can be configured to send Email or SMS notifications to multiple parties.

Once the alert is triggered, full report shall be sent to the system administrator.

The details detection report contains found anomaly statistics for a certain machine. It helps to dig-deep for more analysis. At the same time backup images are marked as "infected" for recovery action. Axcelios Cyber-Insight is not intended to replace other forms of real-time Malware detection. It is intended as a last line of defense in the backup process that detects attacks during or after it occurs. When implemented, Axcelios Cyber Insight Turns a ransomware attack into just another disaster recovery scenario.

When integrated with business data recovery process, the attack is detected early, and the damage is minimized with limitation to data changes within backup images.

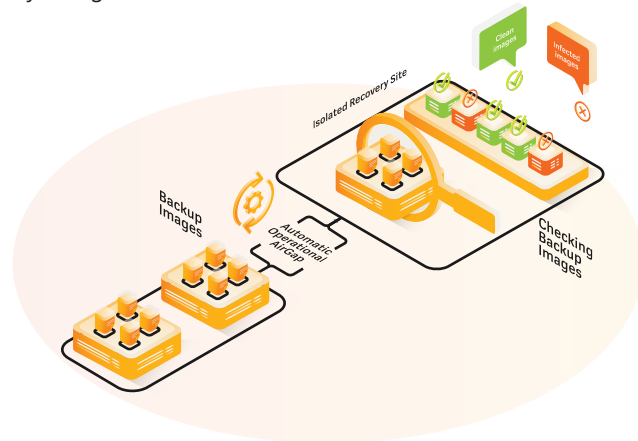
Backup Insights & Analysis

Axcelios Cyber-Insight performs analysis on each backup image snapshot indexed inside the Vault site. The analysis is largely based of file system behavior and content analysis. The detection process has two main parts:

FILE SYSTEM META DATA ANALYSIS: This module Performs behavioral analysis on the file system Metadata information; considering certain items such as number of files added, number of files deleted, number of files replaced with decoys, files with new extensions added, files encrypted with Ransomware ... etc.

Hence, it creates historical baseline that gets refined over time through Machine Learning algorithms. This information is used to detect Anomalies in behavior for future scans. The Machine Learning algorithms have been trained by most of Ransomware and leverages the analytics to understand how data has changed.

FILE CONTENT ANALYSIS: Once suspicious behavior is detected then further analysis performed on the suspicious files. Content analysis starts to detect Ransomware. This leads to more accuracy to high detection rate.



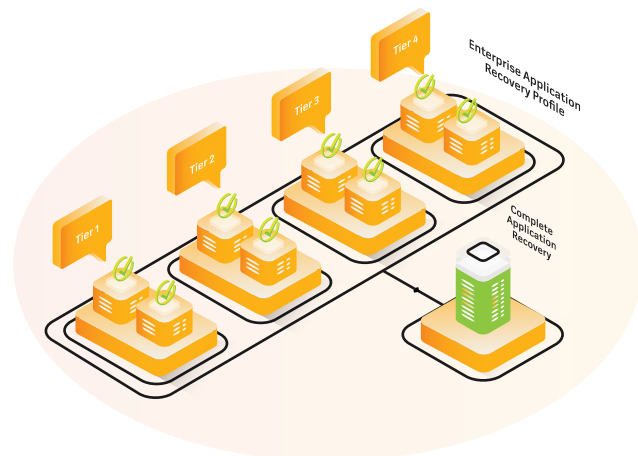
RECOVERY PROFILE

Faster Recovery, Less Downtime, Higher Productivity

Upon Ransomware detection, faster recovery is essential to minimize the time it takes to recover from the incident. It means minimal time spent in identifying what backup images were impacted and where the most recent clean backup image exists.

During Cyber-Attacks and Ransomware disasters, each business suffers from:

- Lack of predefined procedures or predefined steps for the recovery process, leads to spend more time restoring critical applications to the running state.
- If a disaster recovery plan is not predefined and organized properly for each critical application and all its dependencies; downtime is increased by then with more data loss and business disruption occurred.
- During the recovery process, every business should have realistic and instant insights for all backup images. It helps to know which ones are infected and which are not in order to expedite the recovery process as much as possible, it enables to minimize data loss by reducing needed time to pick and restore the latest unaffected backup image





SUPPORT & INTEGRATION

The Axcelios Cyber-Insight Solution has been designed intelligently, it integrates with various market leading backup solutions. Current release supports tight integration with Veritas NetBackup solution. It enables access to the isolated Vault only during the data replication from the production system. In such unique feature integration with Veritas NetBackup solution, we assure that the Airgap

network opened during the data replication only no more no less, this more secure to the customer keep the Airgap window dynamic according to Data replication time.

For other Backup vendors we support integration with any vendor for any design scenarios to provide secure Airgap network for the Data replication.



MEET THE ACUANIX TEAM

ACUANIX is a development group of experts; focused on designing "Data Management Solutions"; helping businesses' growth and data recovery by providing structured data solutions to help in diversified types of data Information with growing volumes and well-integrated with different environments.

ACUANIX solutions are designed to meet different challenges of Critical Information governance and business compliance within the areas of data protection, data isolation and business continuity.

Since we offer exceptional quality with ensured satisfaction; many clients trusted our brand and so we act as their partners for Data Solutions Development.

Our services and products help businesses to keep Data assets safe with secured availability and smoothly managed, operated and accessed. By counting on ACUANIX Data Solutions and Services; businesses have the best possible productivity rates; offering cost-effective services and ensure business stability for desired growth with no extra hiring burden and risky quality.



WHY CHOOSE ACUANIX SERVICES?

ACUANIX team understands that every client has their own unique needs and business challenges. We spend the time to understand each client's work environment and objectives, then we design and implement a solution leveraging and approved with an emphasis on overall security, ease of use, and low total cost of ownership.

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