ACUANIX

Empowering “Mission-Critical” Business Data

Cyber resilience and Ensuring Business Continuity

DATA SHEET

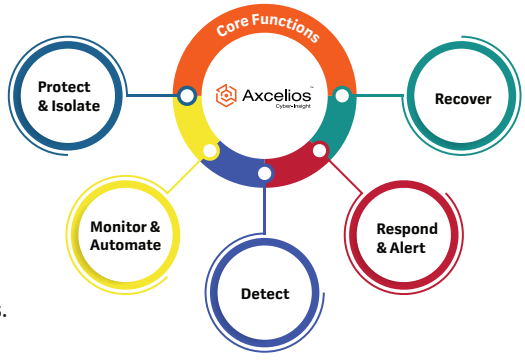
Understand the ultimate challenge of Cyber Attacks vs. Business Continuity.

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

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.

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



Protect and Isolate

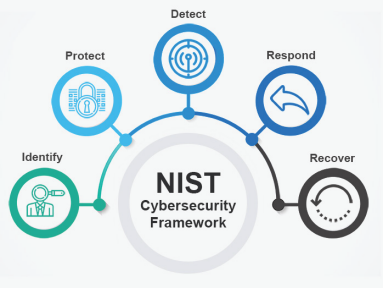
- Protect your critical data in an Isolated network away from your production Data.
- Isolating your critical data is the only way to ensure your data availability during cyberattacks events.

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.
- Recover with Confidence.



Respond and Alert

- Smart Respond and alert system using SMTP and SMS.
- Clear visibility over your isolated environment 24/7.
- Get Notified of all the activities and suspicious behavior within your isolated site.

Recover

- Be ready with your recovery plan.
- Ensure that your application will have all its required dependencies while recovering it.
- Few Guided steps and your recovery process started.
- Recover from last known clean backup image.

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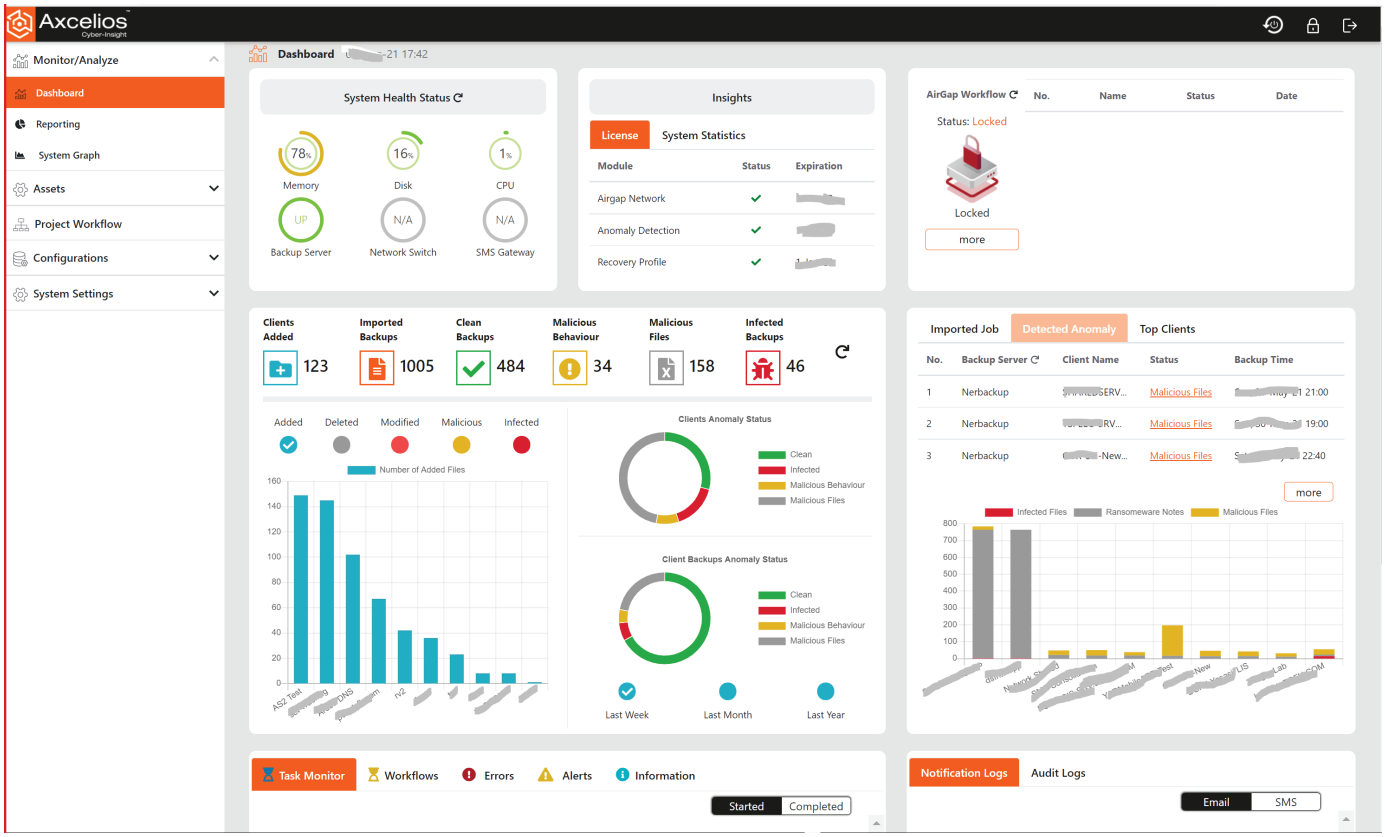
AXCELIOS CYBER-INSIGHT is the Ultimate Solution

Enabling intelligent detection and defending tools against Cyber-Attacks threats with fully-fledged business continuity strategies requires consolidated “Cyber Resilience Approach”.

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.

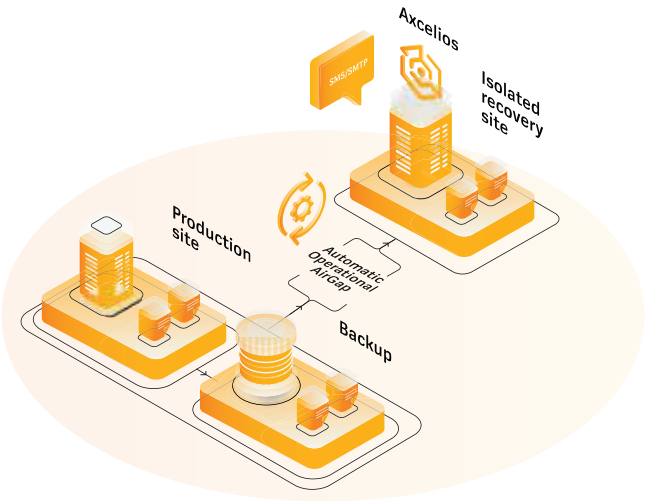


The AXCELIOS Cyber-Insight Solution has Three Main Features

1- Air-Gap Network Automation:

Automates the Air-Gap isolated Network to have secure copy from data in isolated air gapped network.

The AXCELIOS Cyber-Insight solution has been intelligently designed to monitor data replication processes from Production 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 vault is totally secured with network disconnected.



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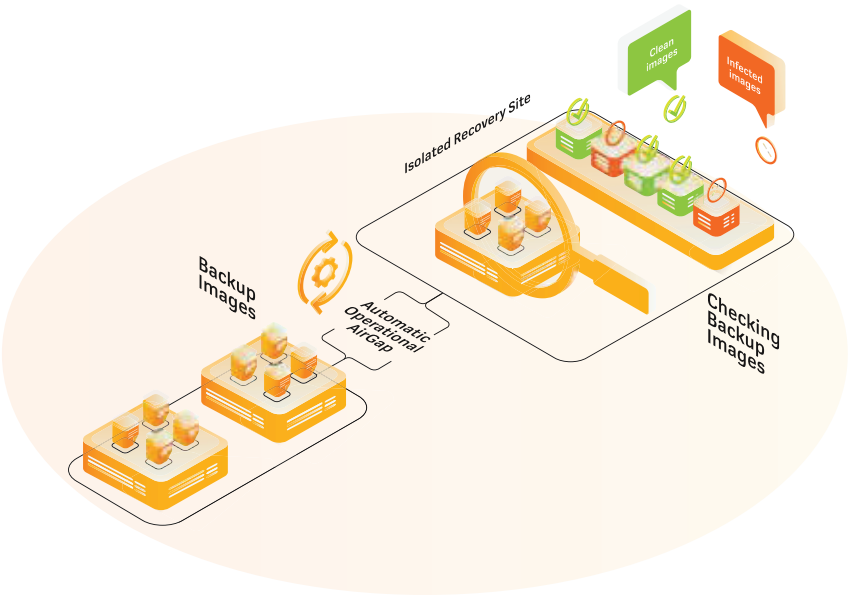
2- Backup Insights & Analysis:

Leveraging the machine learning algorithms, 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.

Business Administration, Effectiveness!

Upon detection of Anomalies 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.
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.

Scan

Axcelios Cyber-insight Scans and indexes every Backup Image Metada ta Inside the isolated vault to build baseline observation.

Advanced Scanning

Once malicious behaviors detected for specific files; advanced scanning process will run and extract those files for advanced scanning

Analytics

Statistics generated for each backup images to learn data behavior and compared with defined statistics to learn file behavior.

Repeat

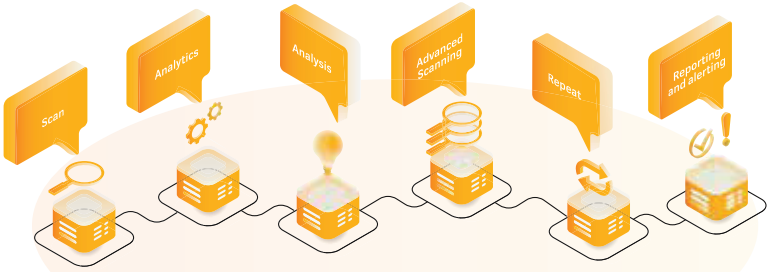
The process is repeated for each new backup image replicated to the isolated vault and a new observation are recorded and compared with the previous observations to build historical analysis.

Analysis

Machine learning are used to analyze each backup image Metadata to detect if any malicious or Ransomware attack have occurred.

Reporting & Alerting

Reporting data are recorded for reporting and to have insights for recovery purposes. If any backup image infected, it is marked as infected, report generated and alert sent through email/SMS



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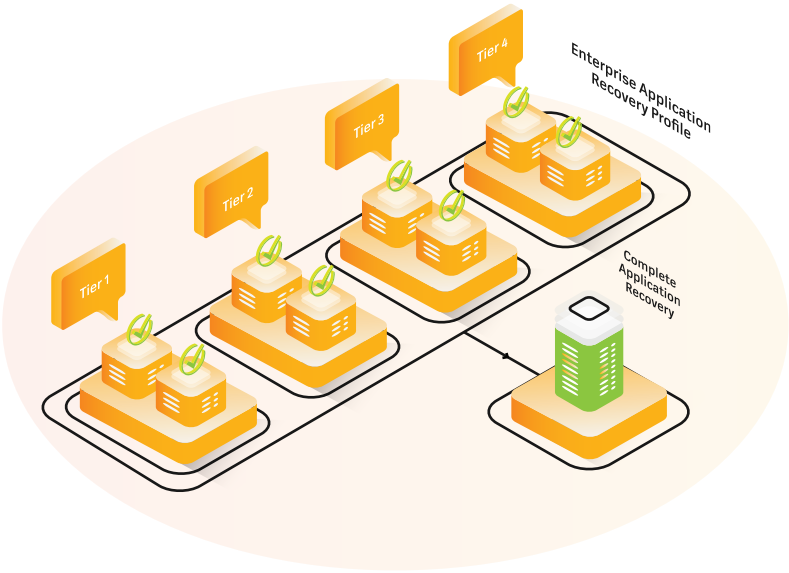
3- Recovery Profiles:

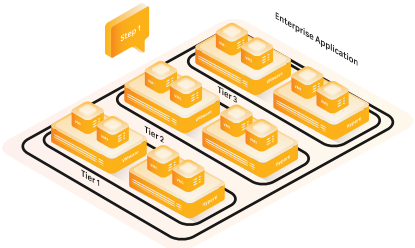
The "Recovery Profiles" guarantees fast and ideal opportunity. It offers a unique recovery profile features. It enables system administrators to plan ahead by building predefined customized recovery profile for each Application with its dependencies needed to bring over Applications completely ideally known running state.

Upon Ransomware detection, During the recovery process, every business should have realistic and instant insights for all backup images. It helps to know which one 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 latest unaffected backup image.

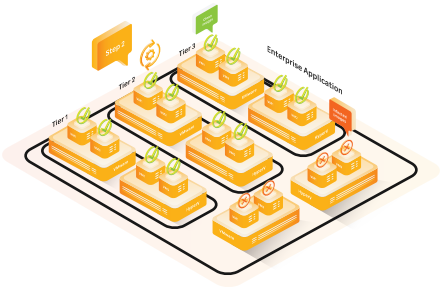


Cyber-Attack prevention is just another disaster recovery scenario

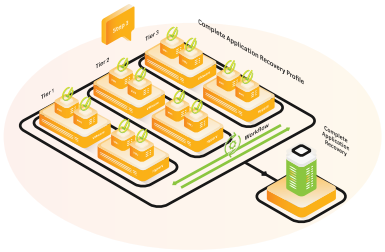
Step 1
Build a recovery profile for each complete application.



Step 2
Select the most recent clean backup image.



Step 3
Start pre-defined workflow for complete application recovery with just few clicks.



GUARANTEE Fully Automated Cyber-Recovery Solution

AXCELIOS CYBER-INSIGHT SOLUTION is a single solution that isolate, automate, monitor, detect and recover your critical workloads playing a key role in your business continuity plan journey.

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. Integration capabilities with backup solutions is what distinguish us, with very tied integration with Market leader backup solution “Veritas NetBackup” this unlock next level of data protection and recovery methodology.

CHOOSE Flexibility made for Enterprise

ACUANIX team understands that each customer has their own interesting requirements and business challenges. We invest the energy to see every customer's workplace and destinations, at that point we plan and execute our solution utilizing and endorsed by large security, usability, and cost efficiency.

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