



INFRASCALE ANOMALY DETECTION

Infrascale offers an enterprise cloud backup solution which includes Anomaly Detection, to alert you when the number of “new” or “changed” files dramatically changes from established benchmark levels.

The Anomaly Detection feature provides an important early warning system to quickly isolate a ransomware infection and allow you to recover important data before the entire network is frozen.



How does anomaly detection work?

The Infrascale cloud backup platform makes it easy to automate a regular backup schedule. We recommend every hour for end-users and daily for servers.

With each backup, we record and report the total number of files and data size that are:

- In the current backup set
- Newly created on the machine
- Changed and backed up as new versions
- Unchanged
- Unable to be backed up

The figures above keep a fairly tight average over time, and only significant changes to the environment will yield figures far beyond the typical averages—new drives, migrated files, deleted files, malware or ransomware.

Although various Ransomware strains operate differently, we can count on two consistent and major behaviors:

1. Affected files are renamed, registering as ‘new files’ when a backup runs.
2. Affected files are modified with the encryption software, registering as ‘changed files’ when a backup runs.

By tracking the backup trends for your devices and reporting the event details, Infrascale provides an anomaly warning that lets you know when your ‘new’ or ‘changed’ file count jumps off the chart.

The screenshot shows the 'Monitoring Settings' page in the Infrascale dashboard. At the top, there are navigation tabs: Home, Manage, Monitoring, Reporting, Apps, Settings, and Help. The 'Monitoring Settings' section includes several checkboxes and input fields:

- Subscribe to daily monitoring digest email reports (peter.savchenko@infrascale.com, steven.uzayas@infrascale.com)
- Send errors and warnings alerts to this address (ACMELIVE@dbg.scsync.com)
- Override when to generate No Backup events
- Outbound API url address (empty field)
- Subscribe to daily Account Details email reports (peter.savchenko@infrascale.com, AT 06:10AM)
- Enable anomaly detection for Changed Files
- Enable anomaly detection for New Files

Below these settings are two identical graphs. Each graph has a y-axis from 0% to 100% and an x-axis from 0 to 5. A blue curve starts at 0% and rises to 100% by x=5. Below each graph is a 'Threshold Level' slider set to 5.

At the bottom right of the settings panel is a 'Save' button.

MORE INFORMATION

You can watch the how-to video here: https://youtu.be/rkWjYZH_dOQ