

# EMC ISILON INSIGHTIQ

Customizable analytics platform to accelerate workflows and applications

## ESSENTIALS

- Uncover bottlenecks without professional services or highly trained personnel
- Determine dataset growth trends for optimal price/performance utilization
- Identify past performance trends to help predict future needs
- Diagnose historical events as simply as "real-time" events
- Analyze network and performance bottlenecks to optimize usage

## What's new with release 2.5

- Export data in CSV format
- Install software directly on Linux as well as on a virtual machine
- Make upgrades with a simple, in-place update process

EMC® Isilon® InsightIQ® provides powerful performance monitoring and reporting tools to help you maximize the performance of your EMC Isilon scale-out NAS platform. With Isilon scale-out NAS, you can easily manage petabytes of storage and computing resources. Now, with InsightIQ, you can go a step beyond, with advanced monitoring and reporting tools to identify performance bottlenecks in your workflows and minimize the amount of high-performance storage required in your environment. InsightIQ provides you with advanced analytics to optimize applications, correlate workflow and network events, and accurately forecast your future storage needs.

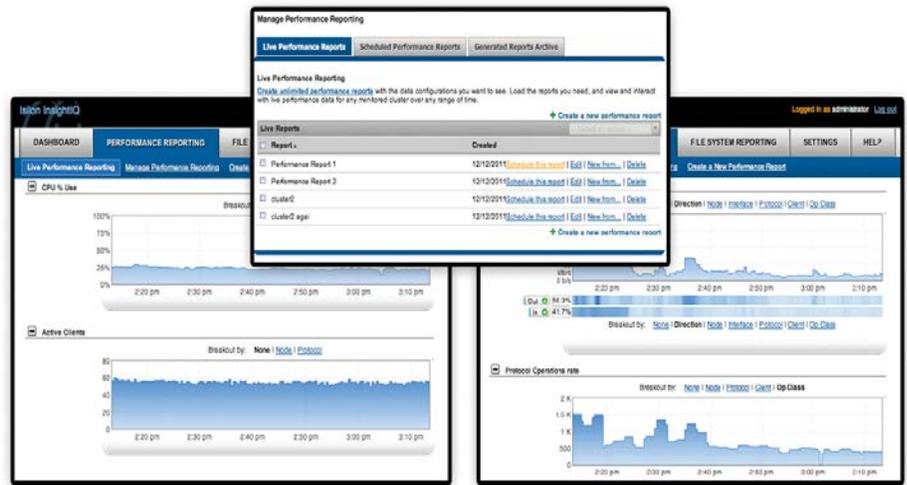


## INSIGHTIQ ENTERPRISE ANALYTICS SUITE ENHANCES BUSINESS METRICS

EMC Isilon InsightIQ 2.5 takes performance metrics to the next level by including integration with third-party tools and flexible deployment options that will help you quickly gain actionable insight into detailed performance and capacity trends.

With InsightIQ 2.5, you can achieve a new understanding of complex data without complicated analysis. Performance metrics can be visualized on a per-client, per-protocol, and per-operation basis so that you can quickly diagnose infrastructure, network, and application bottlenecks. With InsightIQ, you can trend detailed file-system information on a per-directory and per-file basis and analyze and retrieve information in near-term and historical contexts as simply as "real-time" events. You can correlate between metrics to better anticipate system issues and to avoid impact on end users and upon application availability.

Insight IQ allows you to leverage cost-saving information regarding utilization and performance so that you can maximize the overall price/performance of your storage system. You can identify the business value of critical data over time and align the use of storage resources to provide cost-effective analytics with minimal impact to your storage infrastructure.



## MULTIPLE DEPLOYMENT OPTIONS

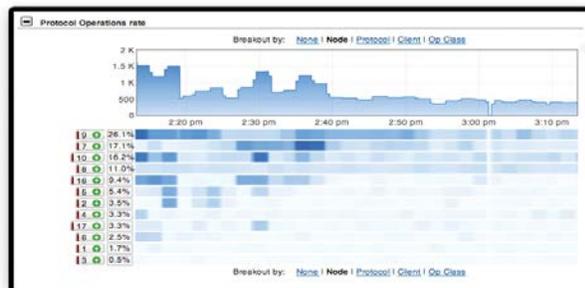
InsightIQ 2.5 can be deployed in multiple ways: as a virtual appliance for VMware or Xen hypervisor environments, or on Linux using Red Hat Enterprise Linux (RHEL 6.x) or CentOS via Red Hat Package Manager (RPM) installation on physical hardware. You can interact with the rich Web 2.0 interface of InsightIQ using your favorite web browser—Microsoft Internet Explorer, Mozilla Firefox, Google Chrome, or Apple Safari.

## SCALABLE SOLUTION

As an off-cluster application, InsightIQ minimizes the impact of monitoring. Data collection, aggregation, transformation, and display are all handled by the InsightIQ installation to offload processing from the storage system and provide fault isolation. The EMC Isilon OneFS® operating system collects the statistics and delivers the information via a REST-based API to InsightIQ.

## RICH VISUALIZATIONS AND INTERACTIONS

To maximize the transformation of data into information, InsightIQ provides rich graphics and powerful, yet simple, metaphors that emphasize outliers, enabling better diagnosis of bottlenecks and the optimization of workflows.



## **ELABORATE DRILL-DOWNS, BREAKOUTS, AND ROLL-UPS**

InsightIQ enables you to start with a broad aggregate dashboard report of your storage environment, break down data along key axes and angles, zoom to long- or short-time scales, and quickly highlight critical information to draw definitive conclusions. The analytics platform makes it easy to correlate seemingly unrelated data across both present and historical conditions in standard or custom reports, as well as distribute the analysis to the various stakeholders in the enterprise via email.

## **DETAILED PERFORMANCE MONITORING AND REPORTING**

With InsightIQ, you can easily create customized reports to run at any interval required to deliver key performance information to stakeholders throughout the enterprise. Events can be clustered for a streamlined review of changes in workflows and applications, and the following node and client-level data points apply:

- Network traffic on a per-interface, per-node, per-client, and per-protocol basis
- Protocol operation rates and latencies that are recorded on a per-protocol, per-client, and per-operation class basis
- Per-node CPU utilization and disk throughput stats

## **FILE SYSTEM ANALYTICS**

The actual analytics of the program are simple to use and help you determine the direction files and file types are trending, which datasets are growing more rapidly, and how data aligns to storage costs. InsightIQ includes an interactive directory usage browser where property breakouts are filed by path, extension, and access time to make it easier for you to track usage metrics. Files and directories are sorted and ordered by count, size, and age to provide a variety of categories for you to use when reviewing system use.

## **POWERFUL DATA EXPORT PROCESS**

With InsightIQ 2.5, the included data export tool allows users to access data in two ways: through ad hoc data extraction by simply clicking on “download” from the user interface and exporting it into a spreadsheet in CSV format; or by using the command line interface, which enables customers to define the data to extract, and to set up a regular schedule of data exports into their own analytics tool.

## **EASE OF SETUP**

Previous upgrades to InsightIQ meant setting up a new virtual appliance, and then manually importing the configuration. With InsightIQ 2.5, you can simply apply the upgrade and retain all previous configurations, making upgrades nondisruptive.

## COMPATIBILITY CHART

SUPPORTED STATISTICS PER OS RELEASE	INSIGHTIQ		ONEFS					
	1.5.X	2.X	5.5.4	5.5.6	6.0	6.5.0	6.5.1+	7.0.X
Disk Capacity	X	X					X	X
Enhanced Disk	X	X					X	X
File System Analytics	X	X			X	X	X	X
File System Cache	X	X					X	X
File System Event	X	X			X	X	X	X
HDFS	X	X					X	X
iSCSI	X	X		X	X	X	X	X
SMBv2, NFSv4	X	X				X	X	X

### DRIVE STORAGE PERFORMANCE METRICS TO THE NEXT LEVEL WITH INSIGHTIQ

The powerful performance monitoring and reporting tools contained in EMC Isilon InsightIQ software make it the perfect complement to an EMC Isilon scale-out storage solution. InsightIQ 2.5 helps you maximize the performance of your existing storage systems while forecasting future needs and reaping the benefits of deeper data analytics in a single, simple-to-manage tool.

## CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, contact your local representative or authorized reseller—or visit us at [www.EMC.com/Isilon](http://www.EMC.com/Isilon).

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