

EMC ISILON INSIGHTIQ

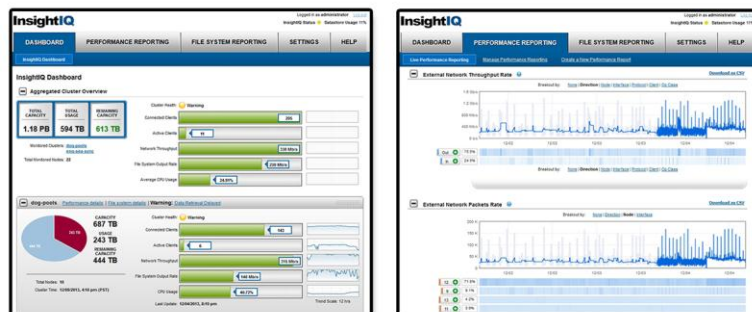
Customizable analytics platform to accelerate workflows and applications

ESSENTIALS

- Powerful monitoring and reporting tools to optimize performance
- Uncover potential bottlenecks without professional services or highly trained personnel
- Determine dataset growth trends for optimal utilization
- Identify past performance trends to help predict future needs
- Diagnose historical events as simply as "real-time" events

POWERFUL SCALE-OUT STORAGE ANALYTICS

EMC® Isilon® InsightIQ® provides powerful performance monitoring and reporting tools to help you maximize the performance of your EMC Isilon scale-out NAS platform. EMC Isilon allows you to easily manage petabytes of storage and computing resources. With InsightIQ software, 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.

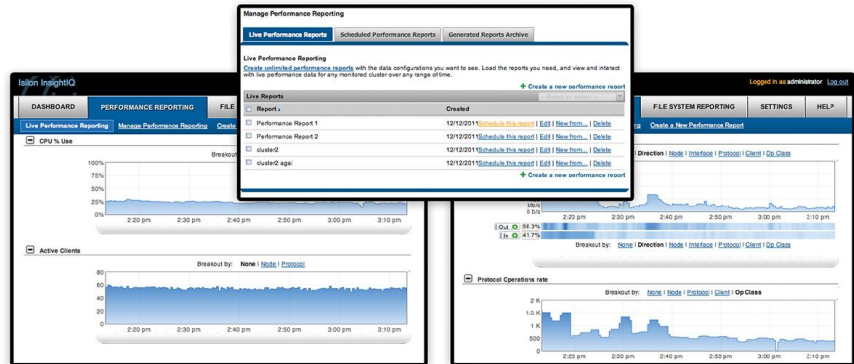


PERFORMANCE MONITORING AND REPORTING

InsightIQ 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, 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.

InsightIQ 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.



FLEXIBLE DEPLOYMENT OPTIONS

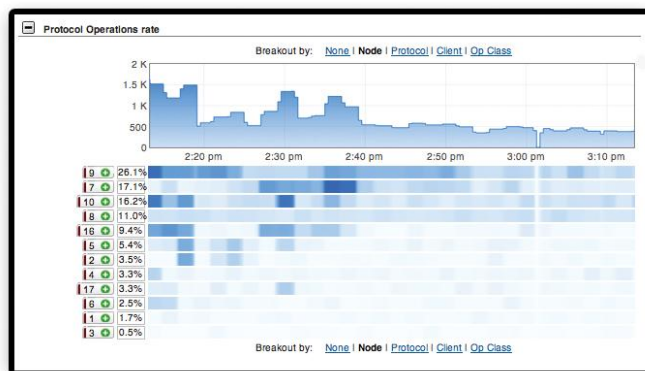
InsightIQ can be deployed in two ways: as a virtual appliance for VMware on physical hardware on Red Hat Enterprise Linux (RHEL 6.x) or CentOS via Red Hat Package Manager (RPM) installation. You can interact with the rich Web 2.0 interface of InsightIQ using your favorite web browser—Microsoft Internet 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 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 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, including Minimum and Maximum and Averages
- Job Engine monitoring
- Advanced alerting to facilitate self-diagnosis.

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

With InsightIQ, 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.

DRIVE STORAGE PERFORMANCE METRICS TO THE NEXT LEVEL

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 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.

COMPATIBILITY CHART

SUPPORTED STATISTICS	INSIGHTIQ			ONEFS					
	1.5.x	2.x	3.0	5.5.6	6.0	6.5.0	6.5.1+	7.0.x	7.1
PER OS RELEASE									
Disk Capacity	X	X	X				X	X	X
Enhanced Disk	X	X	X				X	X	X
File System Analytics	X	X	X		X	X	X	X	X
File System Cache	X	X	X				X	X	X
File System Event	X	X	X		X	X	X	X	X
HDFS	X	X	X				X	X	X
SMBv2, NFSv4	X	X	X			X	X	X	X
Job Monitoring			X						X

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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.

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