

# Dell EMC Isilon InsightIQ

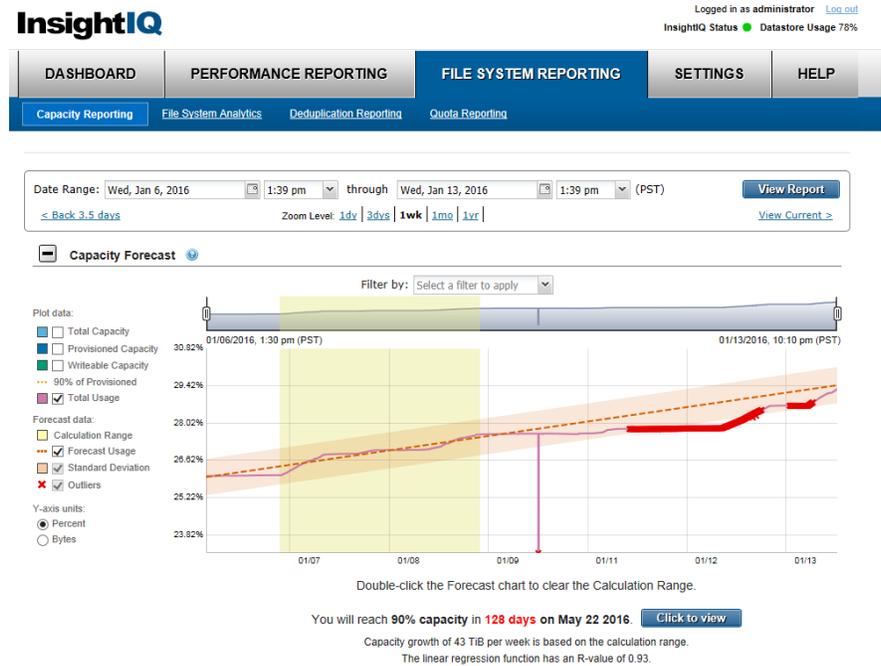
Customizable analytics platform to accelerate workflows and applications on Isilon clusters

## 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
- Optimize resources with quota and deduplication reports
- Added forecasting capabilities to capacity usage data
- No-charge software license
- LDAP integration to give users fine-grained access based on group memberships

## Powerful scale-out storage analytics

Dell EMC® Isilon® InsightIQ® provides powerful performance monitoring and reporting tools to help you maximize the performance of your Isilon scale-out NAS platform. Isilon allows you to easily store and 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 optimize the amount of high-performance storage required in your environment. InsightIQ is available for no-charge and provides you with advanced analytics to optimize applications, correlate workflow and network events.

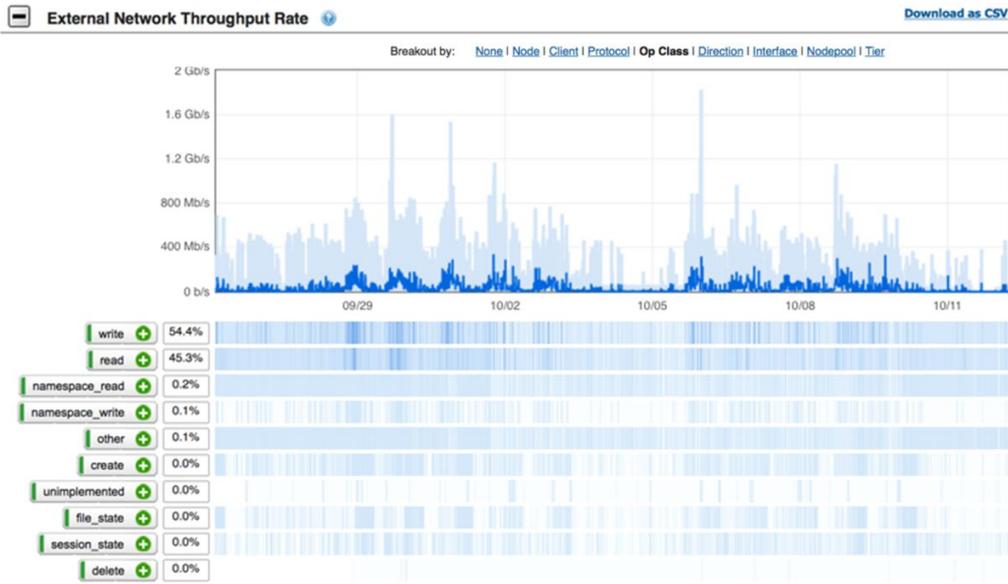


## Report and monitor performance

InsightIQ takes live performance metrics to the next level by including flexible deployment options that will help you quickly gain actionable understanding into detailed performance and capacity trends leading to improved storage utilization.

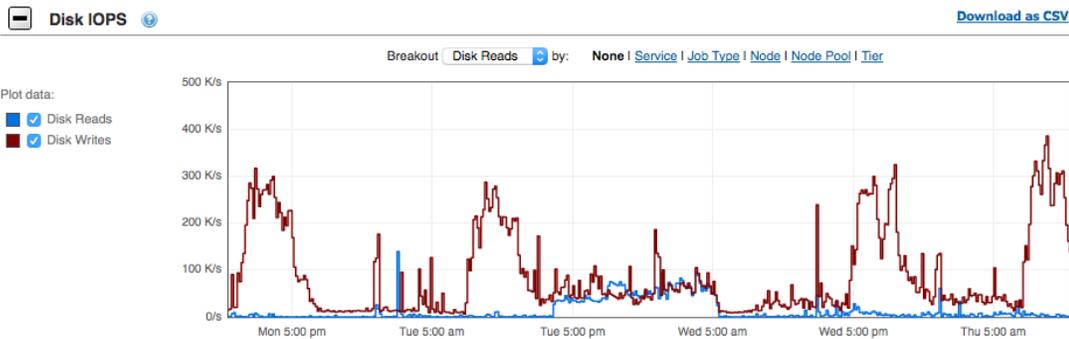


Breakout by: [None](#) | [Node](#) | [Client](#) | [Protocol](#) | [Op Class](#) | [Direction](#) | [Interface](#) | [Nodepool](#) | [Tier](#)



## Performance resource management report

InsightIQ provides reports that displays statistics for the performance resources consumed by the background OneFS jobs and services, such as SyncIQ, SmartDedupe and FSA. Isilon storage admins are now armed with better data and clearer understanding of what resources these jobs and services are consuming, which can help them decide if adjustments in the configuration and scheduling of these jobs can help improve the balanced utilization of cluster resources. The report in InsightIQ will show the following stats for each job and service tracked - throughput, operations per second, CPU usage, cache hit rates and disk read/writes.



## 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, 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. Visualization of available capacity, quota usage, deduplication effectiveness and cache performance provides administrators a detailed view of the performance of the storage infrastructure.

## 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. Activity can be clustered for a streamlined review of changes in workflows and applications, and the following data points apply:

- ESRS integration for application up-time and telemetry gathering
- Forecasting capability to capacity usage data
- Available storage capacity while accounting for system overhead
- Network traffic per-interface, per-node, per-client, and per-protocol basis
- Protocol operation rates and latencies 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
- Visualization to facilitate self-diagnosis
- Quota reporting that enables quick and simple visualization of all quotas
- Granular reporting per storage pool and per storage tier
- Extensive performance monitoring of cache effectiveness
- Per user reporting to identify current top users
- Performance monitoring of OneFS jobs and services

## File system analytics

The actual analytics 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 metrics. Files and directories are sorted and ordered by count, size, and age to provide a variety of categories 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” link from the user interface and exporting it into in a spreadsheet in CSV format; or by using the CLI, which enables you to define the data to extract, and to set up a regular schedule of data exports into your own analytics tool.

## Drive storage performance metrics to the next level

The powerful performance monitoring and reporting tools helps you maximize the performance of your existing storage while forecasting future needs and reaping the benefits of deeper data analytics in a simple-to-manage tool.

## Compatibility chart

SUPPORTED STATISTICS	INSIGHTIQ				ONEFS			
PER PRODUCT RELEASE	3.2	4.0	4.1+	7.1.1	7.2	8.0	8.0.1	8.1+
DISK CAPACITY	X	X	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	X	X
L3 CACHE	X	X	X	X	X	X	X	X
FILE SYSTEM EVENT	X	X	X	X	X	X	X	X
JOB MONITORING	X	X	X	X	X	X	X	X
QUOTA REPORTING	X	X	X	X	X	X	X	X
DEDUPE REPORT	X	X	X	X	X	X	X	X
PER POOL REPORT	X	X	X		X	X	X	X
DATA STORE IMPORT OF EXPORT		X	X		X	X	X	X
ESRS SUPPORT		X	X			X	X	X
REAL-TIME ANALYTICS		X	X			X	X	X
LDAP INTEGRATION			X				X	X
ONEFS JOB AND SERVICES			X				X	X

## Take the next step

Contact your Dell EMC sales representative or authorized reseller to learn more about how Isilon scale-out NAS storage solutions can benefit your organization.

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