

Strengthen Your Multicloud Data Protection Strategy with CloudIQ AIOps

Instant and proactive insights help assure you meet your data protection objectives.

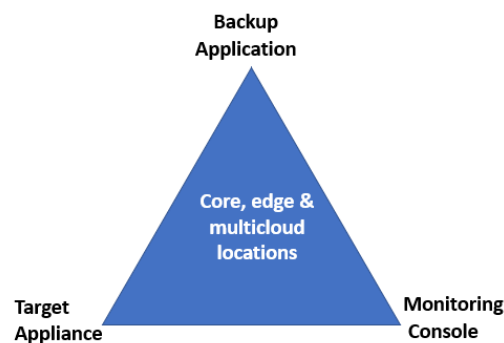
By Lakshmi Jayachandran, Product Manager, Data Protection Appliances



Multicloud deployment is a pillar of contemporary data protection strategy. But with a growing number of data protection deployments across your enterprise and in public clouds, how can you manage them all effectively and efficiently?

To make it happen, you'll need a common operating model for on-premises and multicloud data protection that consists of three building blocks:

- A common data protection appliance for on-premises and cloud data protection
- A common backup application that can operate on-premises and in cloud
- A common console for monitoring the on-premises and cloud appliances



Dell's integrated solution follows that approach with:

- Dell PowerProtect Data Manager – the application for software-defined data protection, automated discovery, deduplication, operational agility, self-service, and IT governance for physical, virtual and cloud environments
- Dell PowerProtect DD series appliances – where data is backed up on-premises, and there's a DD Virtual Edition (DDVE) for optional back-up on-premises and in cloud.
- CloudIQ – the SaaS AIOps application for monitoring on-premises and cloud protection PowerProtect DD and DDVE deployments.

Conveniently, CloudIQ also monitors Dell primary storage, server, networking and hyperconverged infrastructure all in the same user interface.

AIOps intelligent insights about data protection

CloudIQ uses continuous telemetry, machine learning and analytical algorithms to give you a clear understanding of the current state of on-premises and cloud-based data protection appliances and helps with predicting their future states so you can resolve issues quickly and proactively.

Instantly scan your data protection environment across core, edge, and cloud:

- Start with a multi-system view of all your data protection appliances on-premises and in cloud, each displayed on its own card. Simply click to convert all the cards to an inventory, health, capacity, or performance view, then click each card for a detailed single-system view.
- Inventory identifies your environment's metadata (e.g., appliance version, location, contract expiration, service plan and site name); enabled data services (e.g., CIFS, cloud, DD Boost, encryption, file system, high availability and NFS); state of replication; and disk types, serial numbers, firmware versions, capacity, etc.

Instantly spot your most severe issues to resolve them quickly:

- Appliance health scores are based on five core factors: components, configuration, capacity, performance, and data protection – each with a weighted impact value subtracted from a perfect score of 100.
- Only the highest risk issue is used to calculate health score impact, directing you to the truly highest severity issues across your data protection estate. This assures that scores don't reflect the combined impact of low-risk issue, so you don't get a false sense of high risk.

Proactively avoid running out of capacity:

- See capacity used, available, reduction percentage, and compression for active and cloud tiers.
- Sophisticated machine learning and related algorithms project when active tier capacity will reach full and include a projection confidence level, so you can confidently plan ahead before you run out.

Proactively avoid latency:

- See trends on key data protection performance metrics such as pre-comp, post-comp, replication, stream and more, over the past 24 hours.



- Draw insights so you can move workloads or plan to expand processing power before there's an impact.
- Dell has plans for CloudIQ to offer data protection performance anomaly detection and impact analysis, as CloudIQ does today for primary storage systems.

Proactively manage technical and security updates:

- CloudIQ displays currently installed PowerProtect DDOS versions, the available LTS, or latest DDOS version so you can always know when important new capabilities are available.

User Friendly for Daily Operations Productivity

IT professionals who recently observed our demos at VMware Explore expos across the globe consistently remarked how simple CloudIQ is to use. They cited intuitive dashboards, easy navigation, and opt-in notification emails – including daily and weekly email digests.

To further enhance productivity, CloudIQ lets you build custom reports with tables or line formats for configuration, capacity, and performance data. These reports can be exported and scheduled to be shared in .PDF or .CSV formats. You can also add tags, such as business unit, data center, application name and more.

Easy to Deploy and Secure

CloudIQ is included with Dell's ProSupport and ProSupport Plus customer support agreements for PowerProtect DD, DDVE and Dell's other infrastructure products – and it's easy to onboard because it is hosted on Dell's secure private cloud.

To on-board CloudIQ to monitor a system for the first time, simply:

1. Use your administrative credentials to log into the system's element manager (e.g., PowerProtect DD System Manager) to be monitored and configure the relevant Dell secure communications software (e.g., Dell Secure Remote Services, SupportAssist, or Secure Gateway).
2. Click to enable telemetry data flow through the encrypted tunnel to Dell's trusted private cloud.
3. Log into the Dell Support website with your support credentials and log into CloudIQ.

CloudIQ is browser-based, so there's no software for you to maintain.

See for Yourself

See the CloudIQ for PowerProtect DD and DDVE demo (as well as white papers and other demos) on www.dell.com/cloudiq.



If you're already a PowerProtect DD series appliance and/or DD VE user, then go [here](#) for CloudIQ on-boarding instructions.

About the Author: Lakshmi Jayachandran

Lakshmi Jayachandran is the Product Manager for Data Protection Appliances integration with CloudIQ at Dell Technologies. In her current role, her mission is to deliver customer-oriented features/products that simplifies IT operations. Prior to Dell, Lakshmi worked in engineering, data analytics, business analytics capacities spanning across telecommunication and healthcare industries. Outside of work Lakshmi enjoys spending time traveling, dancing, and playing badminton. Lakshmi holds a BTech in Computer Science and Engineering from Calicut University and a M.S in Computer Science and Engineering from Santa Clara University.

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