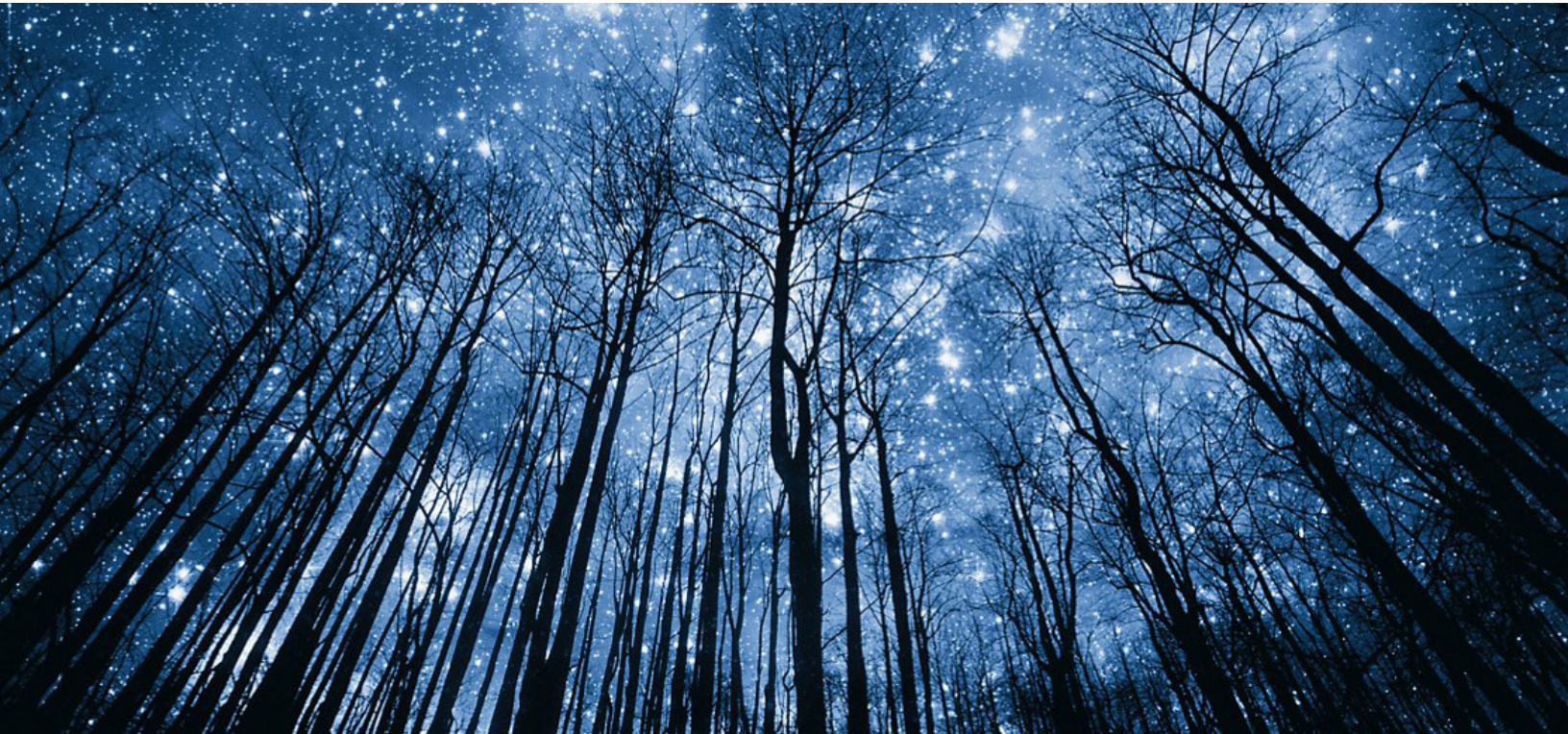# DELLTechnologies

CLOUDIQ AND ITS IMPACT ON APEX

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Introduction

This article details CloudIQ, the cloud-based proactive monitoring and predictive analytics application for Dell systems and its possible impact on APEX, which is Dell Technologies' portfolio of as-a-service offerings. It describes how the use of technologies like machine learning and other algorithms can enable APEX to be a more powerful offering. CloudIQ supports a broad range of Dell Technologies products including certain servers, storage, data protection, converged/hyperconverged infrastructure and networking products, all of which can be leveraged by APEX.

The roles of data and technology are constantly evolving and with every hurdle that businesses face, it is crucial that IT are prepared to delight their internal and external stakeholders. It is no longer about just meeting expectations related to a particular project; it is more about creating an unforgettable experience that leads to greater efficiency and greater levels of engagement.

CloudIQ makes it easier and faster to manage IT infrastructure, from providing predictive insights about storage capacity to identifying anomalies in system performance and much more. Its combined use alongside APEX leads to unlocking greater efficiency and pace in solving growing challenges.

This article explores the impact that CloudIQ could have on APEX as a tool, how it would benefit stakeholders and highlights the advantages of using such a tool with your infrastructure.

This article is intended for Dell Technologies customers, partners and employees interested in understanding the possible relationship between the features of CloudIQ and APEX.

What is CloudIQ?

CloudIQ helps stakeholders to plan and keep up with their business growth with features such as short-term capacity full prediction, capacity anomaly detection, and longer-term capacity forecasting. Integrating CloudIQ with APEX will enable IT professionals to plan for their business growth, analyze the current technology they are leveraging, and it can also encourage them to scale their resources from the APEX portal as and when they require. It will also help to identify vulnerabilities with their current utilization of the resources they are using from APEX before it impacts their environment.

Evolving IT Sector

What is the need of APEX and CloudIQ?

Three IT priorities stand out that would ideally contribute to substantial growth in the IT sector.

1. **The stay-at-home economy that's here to stay**

   The world has embraced the flexibility to work and learn from anywhere and the PC is rising to the challenge. IDC reported that more than 300 million PCs shipped in 2020. Those PCs bring demands of their own. They contribute to the increased infrastructure spend we're expecting to support the management and provisioning of apps, services, and security in a hybrid world.

2. **We're living on the Edge**

   Widespread connectivity is enabling more and more automated, intelligent devices, cars, and machines at the edge – accelerating even faster with the rollout of 5G.

   For perspective, 10% of data is generated outside of a data center today. But by 2025, 75% of enterprise data will be processed outside a traditional centralized data center or cloud for more real-time processing and analytics. By 2024, we'll see an 800% increase in applications at the edge. As a result, there will be an estimated $700 billion in cumulative CAPEX spent on edge IT infrastructure and data centers. The edge is where the data and the money are – driving new investments in hybrid-cloud solutions delivered as-a-Service.

3. **Simple to consume, easier to plan – everything as-a-Service**

   By 2024, over 75% of infrastructure at edge locations and 50% of data center infrastructure will be consumed as-a-Service. And for good reason – IT should be easier to deploy, consume, and manage. In 2020, that message was loud and clear when IT priorities and budgets underwent an overnight overhaul. Cloud and as-a-Service experiences have set new expectations for how simple IT can and should be. Organizations need greater control and more choice. It's how they free up IT budget for the stay-at-home economy and edge opportunity.

   These reasons make it abundantly clear how APEX will potentially play a huge role in impacting the way organizations transform their infrastructure to suitably meet the demands of their own business objectives and that of their customer base. Using analytics to appropriately judge data only improves the experience of every stakeholder involved. Proactively monitoring any infrastructure only adds more value to an organization's infrastructure.

The value of bundling APEX and CloudIQ

Thus, integrating APEX with CloudIQ results in better customer experience, which is the most crucial element in deciding a business's future. Providing customers with the technology to predict their requirements based on real-time analysis of their current environment will help them make better decisions and provide better value to their organization and that of their own customer base. The question is, how do we approach this? A simple answer to this question is by integrating the transparency of CloudIQ with APEX.

Advantages of CloudIQ

Customers can use insights from CloudIQ to monitor the resources they have provisioned from APEX and analyze their current and future needs based on several metrics. The opportunity of being able to access and view all your infrastructure on an intuitive online interface, analyze, and purchase more storage resources from a single point through this integration, can simply unlock opportunities that haven't been explored. CloudIQ enables customers to view the health score of their current environment, and it allows them to predict how their storage appliances are operating. Integrating an APEX solution with CloudIQ will help customers proactively deal with issues that maybe currently causing problems or may pose potential performance issues in the future.

A few scenarios where the combination of CloudIQ's predictive analysis, powered by its intelligent Machine learning algorithm, can drive a more direct management experience could accessing proactive health scores, performance impact analysis & anomaly detection, workload contention analysis, cybersecurity monitoring. An organization can even use this to anticipate business needs with capacity forecasting to plan capacity requirements and budget accordingly.

Along with this, CloudIQ also helps improve the productivity of an organization's IT team through its breadth of coverage, collaboration, and its integration for automated workflows. Using a single portal for monitoring and troubleshooting infrastructure across several locations simplifies operations and improves productivity. Having proactive notifications of issues and different customizable ways to view and share this data not only improves productivity but also how adds to how frequently this information can be accessed.

Conclusion

Hence, CloudIQ is a very powerful tool that can solve multiple challenges when coupled with APEX. In an era where information is most powerful, there now exists a tool which can harness this information to optimize and continuously improve upon the solutions that we as a society develop to tackle organizational and customer demands.

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