NTT I³ Uses CliQr to Orchestrate Cloud Services for Commercial Subsidiaries

" NTT I³ and CliQr share a common belief that for cloud computing to reach its full potential, there needs to be an efficient way to decouple business applications from the complexity of inherently diverse hybrid cloud environments. We're pleased to partner with CliQr to deliver complete lifecycle management of both new and existing applications with a suite of hybrid cloud management services for NTT clouds. "

Srini Koushik
**PRESIDENT AND CEO
NTT INNOVATION INSTITUTE, INC.**

NTT
INNOVATION
INSTITUTE,
INC.

BUSINESS
NTT I³ is the innovation arm of Nippon Telegraph and Telephone, the biggest telecommunications company in the world with a large network of subsidiaries.

CHALLENGE
NTT I³ wanted to create a new commercial product that behaves like a cloud of clouds. At the same time, they wanted to leverage the strengths of multiple disparate managed-private and public cloud environments on a common services portal. NTT I³ wanted this portal to support one-click application delivery with full lifecycle management and allow their subsidiaries and operating companies the ability to deliver value-added services.

USE CASE: Commercial cloud-based IT-as-a-Service and cloud brokering

SOLUTION
To address this challenge, NTT I³ used the CliQr CloudCenter platform with a patented Cloud Services Orchestrator (CSO) at its core. This solution allowed NTT I³ to offer a multi-tenant cloud service where each tenant can build Application Profiles, deploy applications on a variety of target clouds, optimize performance based on CloudCenter benchmarks, and monitor the entire deployment. NTT subsidiaries and operating companies can also easily extend the platform to deliver value-added services that take advantage of CliQr's unmatched cloud portability.

BENEFIT
The CloudCenter platform empowered NTT I³ customers to usher in a new generation of IT services. Now all of NTT, its subsidiaries, and even end customers have the maximum amount of flexibility for cloud targets from among up to seven choices now that they are taking full advantage of CloudCenter's cloud-agnostic Application Profiles.

Business

The NTT Innovation Institute, Inc. (NTT I³) is a Silicon Valley-based subsidiary of the Japanese telecommunications giant the NTT Group. Tasked with tackling corporate-wide big-ticket problems, NTT I³ solves those problems by incorporating intellectual property from several small tech companies into a single solution. These solutions are then used not only by different NTT subsidiaries, but by NTT end users as well. The overall goal of the group is not only to help NTT grow but better establish its brand in the U.S.

Challenge

NTT I³ saw a very basic market need—to accelerate cloud adoption within the enterprise. Across their diverse customer base, they saw barriers facing enterprise IT departments that included:

- Lack of consistent user experience across cloud solutions

- Need for speed and agility

- Increased operational and management complexity

- Ability to meet SLAs across the business value chain

- Escalating risk management

NTT customers had classic cloud concerns about security, performance, compliance, and potential loss of data control. They also questioned how they might determine which cloud was best for each application and the market gains they might see when choosing correctly. They were interested in the mix of clouds and application that helps their customers think smarter, act faster, and make their business more agile.

Solution

NTT I³ determined that the best way to solve these problems for NTT, its subsidiaries, and its operating companies was to build a single services platform on which they could offer several different extensible products. CliQr's CloudCenter platform and CSO provided the solution to this challenge.
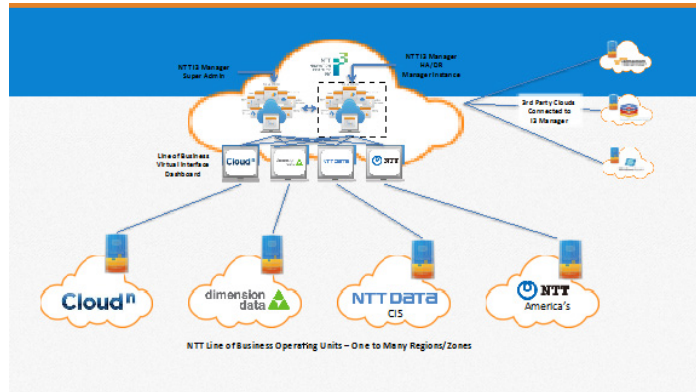
As illustrated, CliQr plays a central role in orchestrating and service brokering for the entire deployment, providing NTT I³ with one consistent method to capture their infrastructure needs for each application and portably deploy their applications to their cloud of choice. Two-thirds of all services that use this technology are effectively handled by the CliQr CloudCenter platform.

To migrate applications, NTT I³ installed a CloudCenter OnPremise and integrated this deployment with Single Sign-On (SSO) authentication that was accessible to multiple organizations within NTT. NTT customers used the deployment to build Application Profiles, optimize their own performance based on CloudCenter benchmarks, deploy applications on a variety of target clouds, and monitor the entire deployment.

CliQr's CloudCenter enabled NTT's central IT department to govern and control granular behavior between different groups within NTT. CloudCenter's multi-tenancy capabilities allows NTT to easily separate customers down to a network level while facilitating delegated administration.

Similarly, NTT I³ used the CloudCenter REST APIs to extend their developer services. By combining CloudCenter's software lifecycle management features with other tools like source code control, NTT I³ was also able to automate their build processes for applications. This dramatically simplified and sped up the application development process for subsequent deployment to any CloudCenter-supported cloud..

HIGH LEVEL ARCHITECTURE OF NTT I³'S CLIQR-BASED SOLUTION

Benefit

Now all of NTT, its subsidiaries, and even end customers have the maximum amount of flexibility for cloud targets from among up to seven choices now that they are taking full advantage of CloudCenter's cloud-agnostic Application Profiles. CliQr's multi-tenancy allows for local, delegated control of those choices so that individual organizations can fine tune selections.

For those organizations that need it, integration with existing software release lifecycle tools and concepts eases the friction of introducing the cloud.

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