

## Cloud

### Cloud Migration and Legacy Modernization

#### The Challenge

Many organizations are stuck with a significant restriction on their mission critical applications – they are too expensive to change, and too expensive to operate. With increasing percentages of funding being allocated to operation and maintenance (O&M) of legacy applications and the IT platforms that support them, some organizations are being forced to cap their O&M spending and hope their mission critical systems remain operational. The promise of reducing O&M costs through Cloud migration is enticing, but finding a way to move to the Cloud in a cost-effective manner is elusive, and a challenge facing many Federal entities. NTT DATA can help solve this problem.

#### Challenge:

- Current mission critical applications too expensive
- Cloud migration can be daunting

#### NTT DATA Cloud Solution:

- Application Rationalization
- IT Assessments - Surveyor

#### Cloud

Migrating legacy applications to the cloud often starts with some level of restructuring or even re-writing legacy applications. NTT DATA eases this process by:

1

Assessing the effort required to modernize legacy applications, with a focus on reducing risks and costs in the process



2

Identifying applications that would be the most valuable for investment



3

Building executable roadmaps to get legacy applications "Cloud Ready"



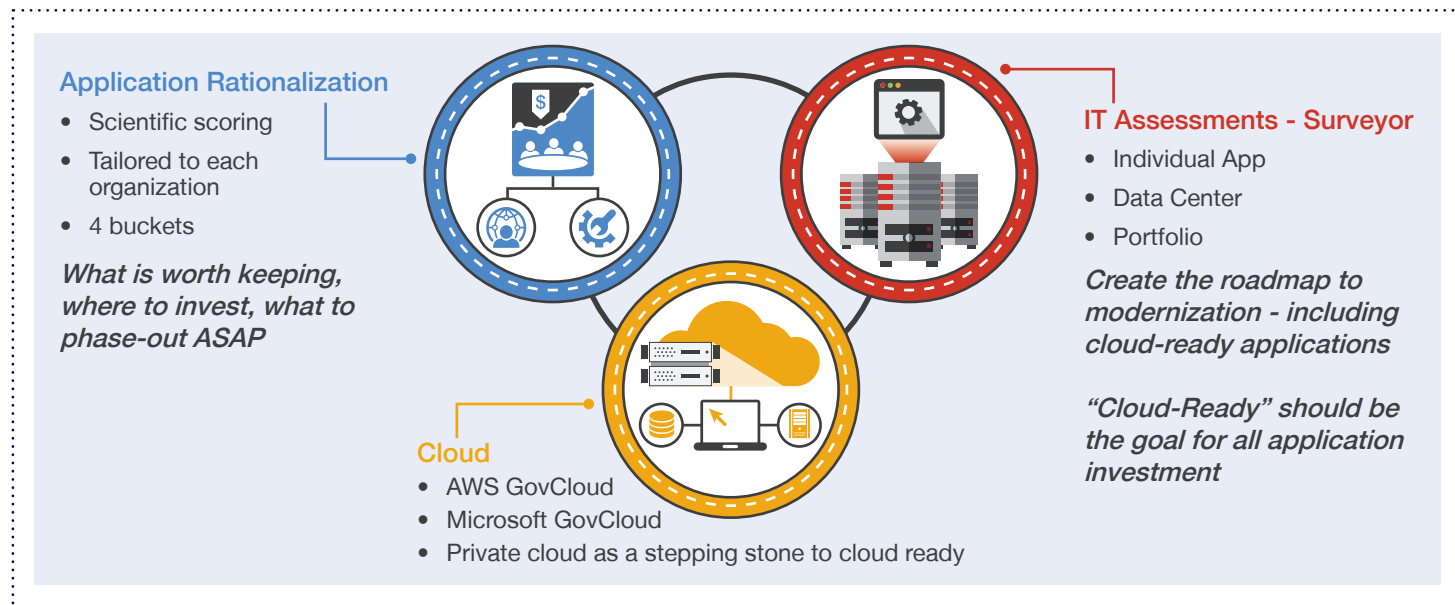
Cloud Ready applications are structured to take advantage of the scalability and high reliability that is offered in public clouds like Amazon Web Services (AWS) and Microsoft's Azure public clouds. If public clouds are not of immediate interest to an organization, operating Cloud Ready applications in private or on-premises cloud configurations is also an excellent step forward.

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The diagram below shows the two actions necessary for applications to become Cloud Ready:

**Application Rationalization** is typically done across a portfolio and helps clients understand which applications require investment, which are worth investment, and whether the investment is in improving mission support or in technology advancement.

**Our IT Assessments Tool - Surveyor** provides a repeatable, tailorable approach for assessing applications or IT platforms, resulting in a practical roadmap for modernization.



The approach and tools are adaptable from very short assessments of a single application all the way up to a full assessment of an entire application portfolio. Across a wide variety of funding levels, we are able to leverage our tools and expertise to provide practical, usable guidance to move clients toward cloud migrations that actually deliver financial and technical benefits.

### NTT DATA has several success stories under our belt for moving legacy to Cloud:

- **NTT DATA** – we internally moved our own back office IT system to AWS and Azure. We learned lessons (a few painful) that we now include in any client engagements
- **Department of Justice** – A DoJ agency requested an extensive application assessment at the software level and cloud roadmap for a mission critical legacy application. We provided the assessment with a four-person team, completing it in 9 months. The assessment also included a roadmap for cloud deployment that they currently utilize.
- **Regulatory Commission** – The Regulatory Commission had a goal to move their unclassified email system to Office 365. They were using consultants from Microsoft to assist, yet the progress was slow and they were stymied by unidentified problems. We offered our expertise as an integrator with Cloud experience. We identified system level and network level issues that were out of scope for the Microsoft consultants and not recognized by the agency’s IT team. Within two weeks the project was back on track and was quickly finished successfully.
- **Navy** – An educational Navy agency had a goal to reduce IT costs, so we developed an approach to host their MS Windows desktops in AWS Workspaces. All project resources plus the next 10 years of operating costs were lower than the cost of replacement on-premises hardware alone.
- **Air Force** – NTT DATA successfully migrated the entire development and test environment for a mission critical application to AWS. The migration was done in a few weeks’ time with no disruption during or after the migration. Developers and testers now only leverage the appropriate resources for any given activity, and costs have dropped significantly.

Cloud migration reduces costs and opens the way to flexible, scalable, readily maintainable mission critical applications. NTT DATA has the tools and expertise to take your legacy applications to the unique Cloud solution your organization needs.

Visit [nttdataservices.com](http://nttdataservices.com) to learn more.

NTT DATA Services partners with clients to navigate and simplify the modern complexities of business and technology, delivering the insights, solutions and outcomes that matter most. As a division of NTT DATA Corporation, a top 10 global IT services and consulting provider, we wrap deep industry expertise around a comprehensive portfolio of infrastructure, applications and business process services.

**NTT DATA**