Secure, High-Performance Computing Without Additional Capital Investments

NTT DATA HPC Cloud Bare Metal Solutions with R Systems

Cloud solutions powered by R Systems

Today, high-performance computing (HPC) has become the backbone of science and product development, freeing visionaries to innovate and create. This breakthrough computing power is an absolutely irreplaceable tool for scientists, academics and cutting-edge researchers. All over the world, IT departments are using High Performance Computing (HPC) Cloud Solutions with R Systems to provide maximum computational power, while employing standards-based technologies that have been tested and validated.

HPC Cloud Solutions with R Systems is designed to provide a secure private cloud environment, hosted and managed by NTT DATA Services and R systems, an HPC solutions partner. The HPC infrastructure consists of our processing, power, storage and memory capacity. R Systems Bare Metal Solution provides white-glove HPC services with custom solutions in your choice of locations, including their company-owned data centers in Champaign, Illinois located at the University of Illinois' Research Park. R Systems offers complete hardware-based systems, as well as custom engagements/configurations based on specific business needs.

As a result of this synergistic partnership, we offer greater flexibility than public cloud by enhancing your ability to operate production workloads that might otherwise be limited to custom, on-site operations in a hosted private cloud.

Get freedom of choice with our vast cloud partner ecosystem

Take the uncertainty out of the cloud with our customer-centric approach to help your organization take full advantage of cloud capabilities. Whether you need a developer-friendly public environment, a mission-critical single-tenant private cloud or a colocation solution, our partner ecosystem combined with Dell exclusive offerings...
provide a wide range of solutions to choose from — all delivered on a single invoice. We blend intellectual property with a wide range of partner technologies to deliver unique, optimal performance based on your application needs and the business outcomes you demand. Partnering with us means simple purchase logistics, uncomplicated vendor relationships and the confidence of our management and support whether you have one cloud platform or many.

**Intelligent solutions for enabling discovery research**

**The services**

Build a private cloud from existing individual clusters to:
- Pool resources
- Share unused cycles on separate clusters
- Have a single interface to multiple clusters

**The bursting ability**

Public cloud resources for customers who need to:
- Service intermittent processing spikes that surpass local capacity
- Use multiple operating systems and applications

**The hosting and management**

Domain specific (such as a genomics cloud) for researchers who:
- Want their data, their collaborators’ data and reference data in one location for processing
- Want access to high-performance networks and file systems

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<tr>
<th>Issues</th>
<th>Perception</th>
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<tbody>
<tr>
<td>Seasonal business overtaxes compute resources</td>
<td>• Poor customer experience due to slow website response times</td>
<td>• Rapidly scale-up or down capacity</td>
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<td>Lengthy time to provision IT resources</td>
<td>• Slow time to market for applications reduces competitive advantage</td>
<td>• Cut application related operational costs</td>
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<td>Poor utilization of virtualized servers</td>
<td>• Perceived inefficiencies of IT personnel by the business</td>
<td>• Provide “bursting” to an alternate data center for additional capacity, when needed</td>
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<td>IT CAPEX budget reductions or freezes</td>
<td>• High infrastructure costs charged back to the business or directly impacting CIO budget</td>
<td>• Minimize upfront investment requirements and risk</td>
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<td>INTENSE Compute Resources</td>
<td>• Lack of funds to investigate emerging technologies which could lend a competitive advantage</td>
<td>• Provide management and monitoring tools which automatically reassign server images to maintain consistent performance and utilization</td>
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<td>• Inability to procure new servers and storage to meet growing computing demand</td>
<td>• Help transition your IT costs from CAPEX to an OPEX model</td>
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Visit [nttdataservices.com](http://nttdataservices.com) to learn more.

NTT DATA partners with clients to navigate the modern complexities of business and technology, delivering the insights, solutions and outcomes that matter most. We’re a top 10 global IT services and consulting provider that wraps deep industry expertise around a comprehensive portfolio of infrastructure, applications and business process services.