Dell EMC Support and Deployment Services for High Performance Computing
Dell EMC is helping transform the future with HPC

Robust portfolio of products and services optimized for HPC from a company who will be there for you over the long haul

Expertise, technology and partnerships advancing the state-of-the-art for HPC solutions from the workgroup to the TOP500

Democratizing

Dell EMC HPC solutions enable companies of all sizes to accelerate their science, engineering and analytics

#1 in Server* (units)
in Storage*

10 generations of servers and storage in HPC clusters

* IDC WW Quarterly Server Tracker
IDC WW Quarterly Enterprise Systems Storage Tracker
Introducing Dell EMC Services for High Performance Computing

**Expertise**
Dedicated HPC specialists with a strong history of deploying and supporting thousands of clusters

**Innovation**
Our world-class HPC Innovation Lab helps you keep pace with the constantly evolving HPC landscape

**Customer Focus**
Primary point of contact across the solution and streamlined call support with HPC experts
What are some common customer concerns with implementing and maintaining an HPC system?

- Companies new to HPC often lack the specialized skills to properly deploy an HPC cluster.
- It can take months to piece together the scripts, cabling, network, and software needed for a cluster deployment.
- It’s time-consuming to manage multiple vendors when trying to resolve cluster issues.
- Organizations need their IT staff focused on the business and users, not on the complexities of HPC cluster maintenance.
Dell EMC delivers best-in-class HPC service experience

Deployment
- Standardized deployment methodology ensures predictable outcomes and minimizes risk
- Get more out of your HPC technology starting Day One
- HPL & OSU benchmarking provide a performance baseline which is uploaded to Dell EMC for future reference

Support
- Fast and accurate resolution of simple and complex HPC cluster issues
- Depend on one support organization not many
- Reduce the burden of supporting HPC infrastructure
- Enhance ability to maintain required service levels

Installation and configuration

66% faster time to deploy¹

Resolve issues up to 90% faster²

1 Based on a November 2017 Principled Technologies Test Report commissioned by Dell EMC comparing in-house deployment vs. Dell EMC ProDeploy for Enterprise deployment service for Dell PowerEdge R730 servers, Dell Storage SC9000 and SC420 and networking components. Actual results will vary.

HPC Solution Support and Deployment Services

Deployment

ProDeploy for HPC

HPC Add-on: Individual nodes
HPC Add-on: M1000e
HPC Add-on: Storage

Support

ProSupport or ProSupport Plus

Asset-level support

Solution support

ProSupport Add-on for HPC

Supported Hardware and Software Technology

- Cluster Management Software
- Operating System
- Networking
- Storage
- Server

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ProDeploy for HPC

Get more out of your cluster starting Day One

ProDeploy for HPC

- Install & configure Cluster Management software
- Configure HPC nodes and switches
- Validate implemented design
- Product orientation
- Perform cluster benchmarking

Add-ons

Scalable HPC solution hardware installation in any combination to fit your system requirements:

1. HPC Add-on: Individual nodes
   - Install individual server nodes
   - Professionally labeled cabling
   - BIOS configured for HPC
   - OS installed

2. HPC Add-on: M1000e
   - Install fully populated M1000e (chassis & sleds)
   - Professionally labeled cabling
   - Configure network

3. HPC Add-on: Storage
   - Install HPC Storage Ready Bundle (Lustre or NSS-HA)
ProSupport Add-on for HPC

Delivering a true end-to-end support experience across your HPC environment

Asset-level support

ProSupport
Comprehensive hardware and software support with 24x7 access via phone, chat and email

ProSupport Plus
Proactive and predictive support for critical systems
- Designated Technology Service Manager and priority access to support experts
- Predictive issue detection by SupportAssist
- Systems Maintenance guidance

Solution support

ProSupport Add-on for HPC
- Access to senior HPC experts
- Advanced HPC cluster assistance: performance, interoperability, configuration issues
- Enhanced HPC solution level end-to-end support
- Remote pre-support engagement with HPC Specialists during ProDeploy implementation
Access the world-class Dell EMC HPC Innovation Lab

Leverage HPC engineering expertise

Test new technologies

Tune your applications for performance and efficiency

Dedicated to research and development of HPC solutions so you can make discoveries faster
Dell EMC HPC Competency Centers are breaking new ground, while enabling human potential

**Americas**
- Texas Advanced Computing Center (TACC)
- San Diego Supercomputer Center
- University of Illinois (NCSA)

**EMEA**
- Dell EMC/Cambridge HPC Solution Centre
- Dell EMC/Intel Competence Center for Cloud and HPC at the University of Pisa
- Centre for High Performance Computing, South Africa

**APJ**
- Institute of Automation, Chinese Academy of Sciences (CASIA)
- Monash University
Accelerating HPC system value with Dell EMC services

1. Get more out of technology starting Day One
2. The right service features at the right price

2. HPC experts with a strong history and experience deploying and supporting 1000s of clusters across all industries
   - Global expertise delivering consistent, successful results

3. “Better-together” – Maintain continuity from implementation to support for a seamless support experience
   • A single vendor to handle all of your HPC cluster needs – one contact, one handshake, a single source of accountability
About Dell EMC Services
Accelerating technology adoption and maximizing productivity with global scale & skill

**OUR PEOPLE**
- 55,000+ Dell EMC & partner professionals
- **Broad & deep** technical expertise
- 55+ languages
- **Industry** certifications
- ~1,000 Residents

**OUR PLACES**
- 165 countries
- 6 Global Command Centers
- 12 Centers of Excellence & Joint Solution Centers
- 87 technical support sites
- 2200 carry-in service centers

**OUR REACH**
- 121M+ systems supported
- **Core to edge** coverage
- 1035 parts distribution centers & 15.5M+ dispatches
- >1 *exabyte* of data & thousands of migrations

**OUR PROOF**
- 94% customer satisfaction rating
- **Temkin Group** CE Excellence
- TSIA STAR awards
- **Microsoft** Deployment Partner of the Year
- IT Brand Pulse Service & Support Leader