Lenovo XClarity

Manage Hardware Like Software

Lenovo™

XClarity enables systems management on your terms by allowing you to define and control physical infrastructure from a variety of interfaces. Interfaces include intuitive web-based graphical user interface, the XClarity Mobile app, your own IT applications that integrate with open REpresentational State Transfer (REST) application programming interfaces (APIs) or using XClarity Integrator software plugins, and Windows PowerShell scripts.

XClarity Administrator Functionality

Lenovo XClarity centralizes, automates and scales complex hardware infrastructure management tasks:

Lenovo Servers and Flex System

- Define servers and Flex System converged infrastructure with software-based configuration patterns
- Auto-discover and manage hardware inventory
- Monitor in real time and handle alerts, events and logs including call home to automatically open problem records
- Define policies to manage firmware levels
- Non-disruptively update firmware and reboot hosts in clustered environments, and automate guest application migration based on predicted hardware-level events with XClarity Integrators for System Center and vCenter
- Install hypervisors and operating systems to bare metal servers

Modernize Hardware Systems Management

Lenovo XClarity provides fast, flexible and scalable delivery of Lenovo infrastructure. XClarity integrates easily into Lenovo servers to automate provisioning and operations management, and into Lenovo switches and storage to automate operations management.

Lenovo XClarity

ThinkServer Servers, RackSwitch Networking and S Series Storage

- Auto-discover and manage hardware inventory
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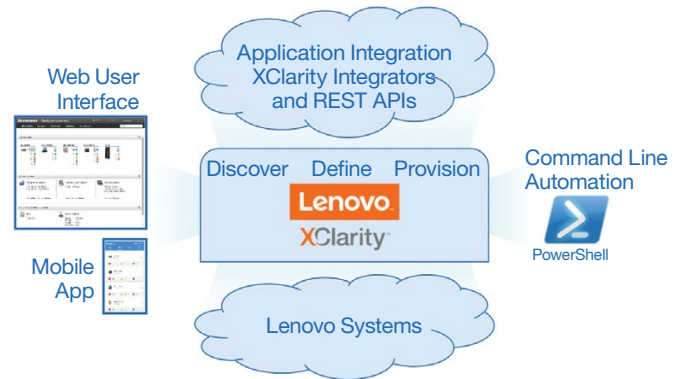- Define policies to manage firmware levels

Graphical User Interfaces

- HTML5 web-based graphical user interface
- XClarity Mobile application for Android and iOS devices

Security

- Verify and authenticate end users with Microsoft Active Directory
- Provide single sign-on and multi-factor authentication for end users by integrating with federated identify management services through Security Assertion Markup Language (SAML) support
- Encapsulate managed endpoints to ensure only XClarity is used to manage systems
- Implement NIST 800-131A or FIPS 140-2 compliant standards to provide stronger cryptographic keys and algorithms
- Perfect Forward Secrecy ensures highly secure communication with managed end points
- Generate a tamper-proof historical record of user actions to enhance audit oversight

Interoperability and Scripting

- REST APIs and XClarity Integrators enable your existing IT applications, such as cloud orchestration applications, to define and control Lenovo systems
- Support for Windows PowerShell scripting

View and manage infrastructure from a variety of interfaces

Simplify

Lenovo XClarity saves administrator time by reducing complexity of complex infrastructure tasks:

- Increase IT staff productivity and efficiency by standardizing, automating, and scaling repetitive infrastructure tasks
- Reduce systems management complexity through an intuitive web-based and dashboard-driven graphical user interface
- Allow administrators to respond to infrastructure status changes and events from anywhere with XClarity Mobile

Accelerate

Lenovo XClarity automates hardware provisioning and monitors systems in real-time to increase IT responsiveness:

- Provision physical systems in minutes and not hours through rapid and scalable deployment of software-based patterns to target systems
- Visualize system inventory, status, changes, alerts, and events in real-time with rack and chassis maps
- Immediately notify administrators with email notifications of events, forward events to your existing IT applications for event consolidation, trending, and impact analysis, and automatically call home to open problem records

Lenovo XClarity

Integrate

Lenovo XClarity offers a centralized point of integration built on REST APIs for high-velocity, software-defined environments:
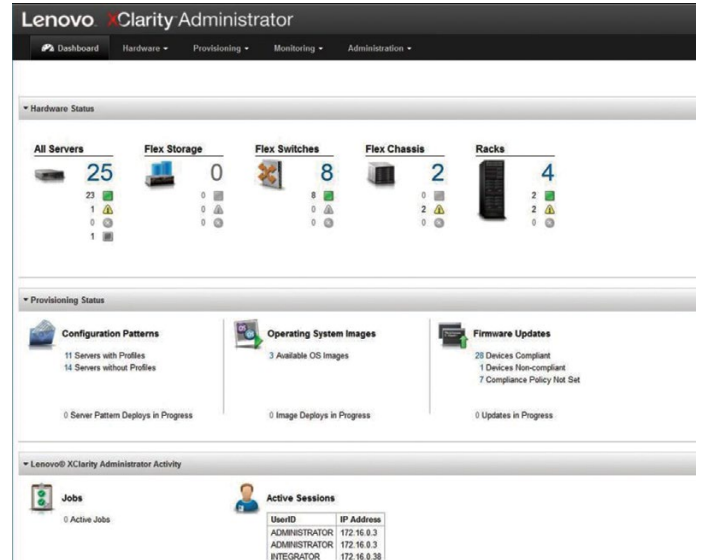
- Manage Lenovo infrastructure and your software infrastructure from common IT applications such as Microsoft System Center and VMware vCenter using XClarity Integrator software plugins
- Eliminate host maintenance windows and reduce unplanned downtime due to hardware events with advanced automation capabilities in Hyper-V and vSphere clustered environments
- Custom develop integration into a wide range of IT applications utilizing open XClarity REST APIs to establish well-coordinated application and end-to-end IT infrastructure orchestration and management processes

Reduce IT Costs

- Decrease time to market of physical systems through fast and scalable automated deployment
- Increase IT staff productivity and efficiency by automating complex, repetitive tasks
- Increase data center agility by enabling visibility and control of Lenovo systems from external IT applications such as automation, orchestration and service management applications

How to Get Started

- Download the free, fully-functional 90-day trial
- Explore online video demonstrations
- Review the Planning and Implementation Guide
- Contact your Lenovo representative or channel partner to schedule a live demonstration

Manage hardware like software with Lenovo XClarity

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Why Lenovo

Lenovo is a $46 billion global Fortune 500 company and a leader in providing innovative consumer, commercial, and enterprise technology. Lenovo enterprise systems deliver industry-leading performance, reliability, and security in virtualized and cloud environments for analytics, database, virtual desktop, infrastructure, and web workloads. Lenovo also offers simplified and extensible systems management tools so you can manage your infrastructure on your own terms. Consistently ranked #1 in reliability and customer satisfaction, the Lenovo enterprise server, storage, and networking portfolio provides the hardware for businesses that never stand still.

For More Information

To learn more about Lenovo XClarity, contact your Lenovo representative or Business Partner or visit **lenovo.com**/systems/servers

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