EBG Server Education – xClarity Administrator: Agenda and Overview
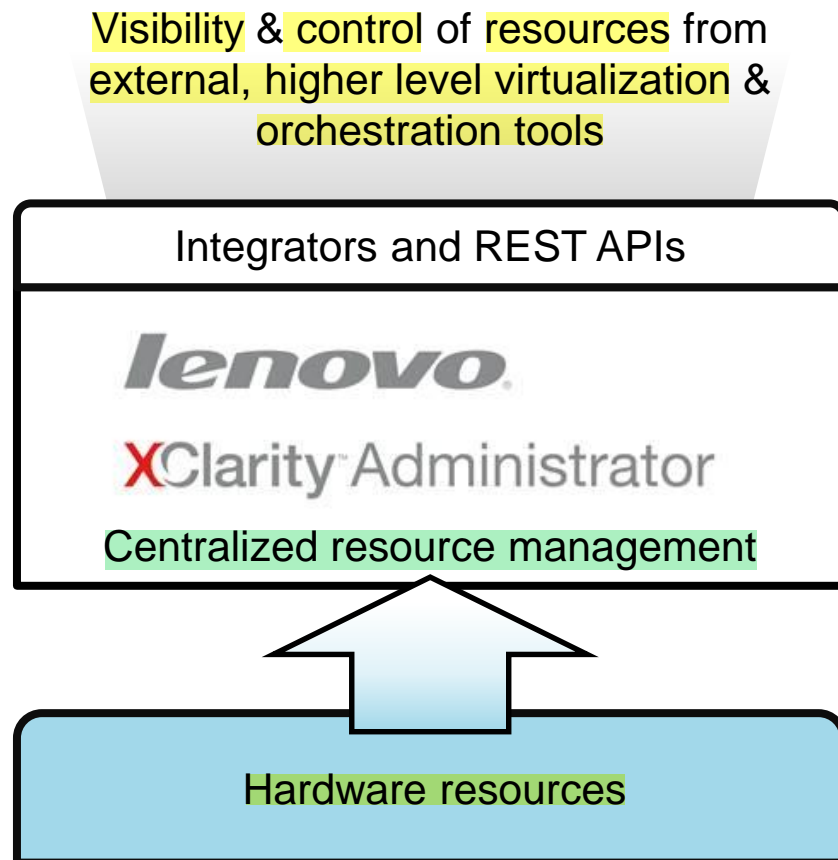
Mark Masbruch | 4/15/15
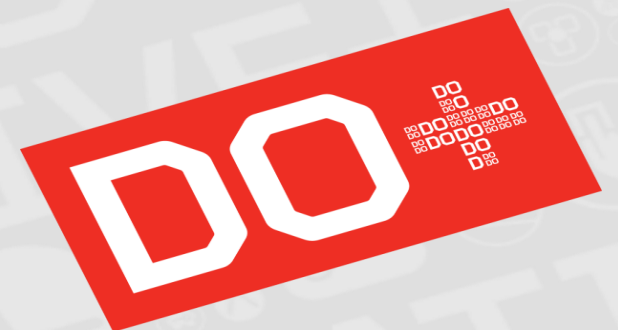
Agenda

- o Support overview (Brian Boser)
- o Virtual Appliance (Trevor Brown)
- o Service and Support (Jeff VanHeuklon)
- o Resource Discovery, Management, Inventory (Jeanne Christensen)
- o Security (Chris Peterson)
- o Monitoring and Events (Andy Vrabel)
- o GUI Interface (CheKim Chhuor - CSTL for rack mgmt / bulk import discovery; Ryan Randolph for other)
- o REST Interface (Debra Angst)
- o PowerShell Interface (Quan Yu - CSTL)
- o FW Updates and Self-Maintenance (Peter Donovan)
- o Configuration Patterns (David Roberts)
- o OS Deployment (Andrew Sloma)
- o Remote Control (David Stanich)
- o Information (Royce Espey)

lenovo

Lenovo XClarity Administrator

Visibility & control of resources from external, higher level virtualization & orchestration tools

Integrators and REST APIs

lenovo.

XClarity Administrator

Centralized resource management

Hardware resources

Deliver Lenovo resources faster

- Discovery & inventory
- Monitoring
- Firmware updates and compliance
- Configuration management
- Deployment of OS to bare metal servers
- Remote Control

lenovo.

# Lenovo XClarity Administrator Dashboard

Simplified user interface

- Based on HTML 5
- Tablet ready
- Find information and execute tasks faster
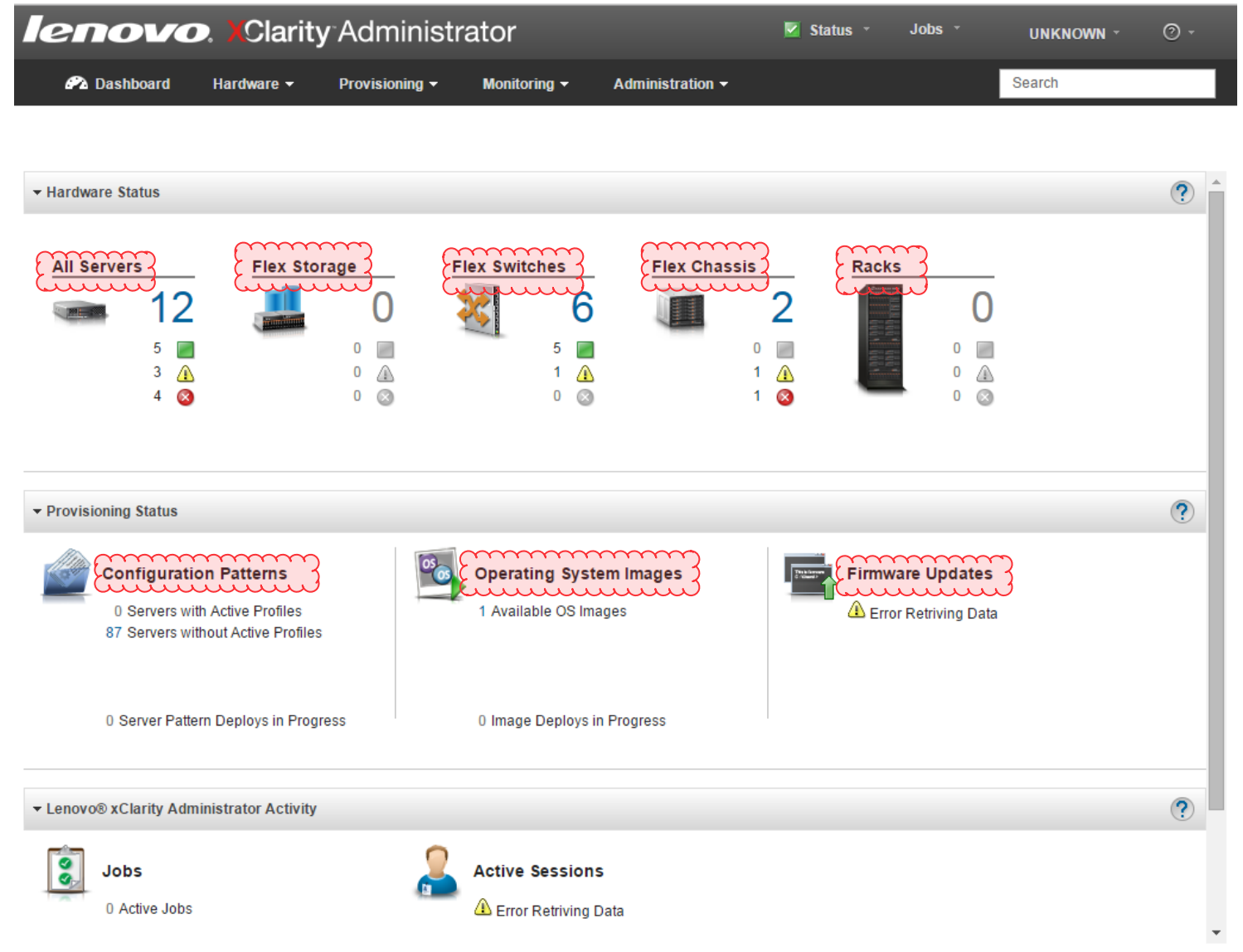
Benefits of Agent-Free Management

Eliminate platform agents* *to reduce complexity

- No CPU cycles spent on agent execution
- Reclaim on average 1GB RAM and 1-2% CPU
- Consistency in managing systems with no dependency on OS
- One less component to certify in the workload stack
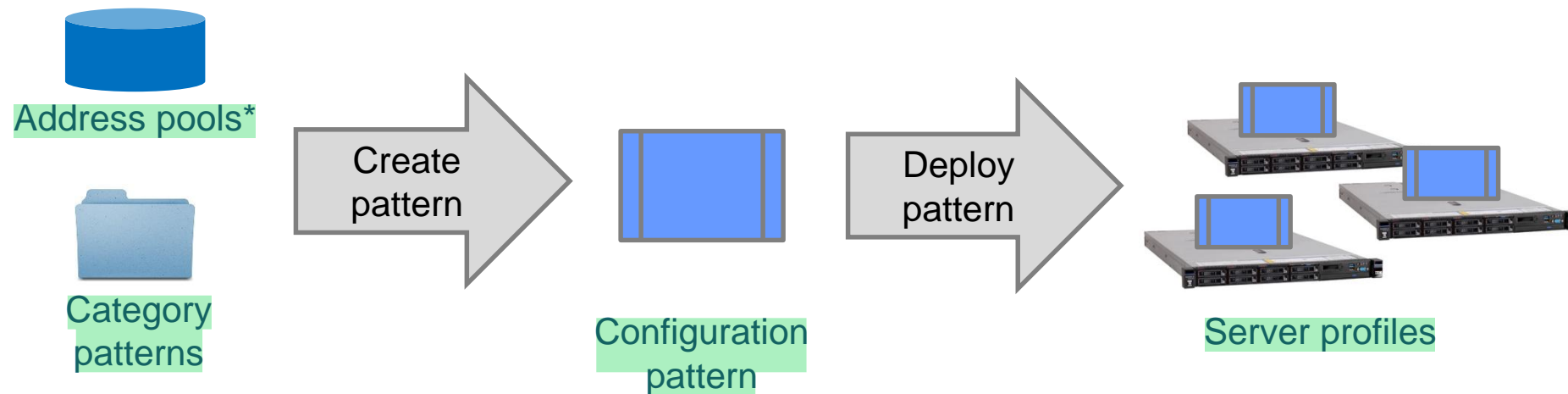- Non-intrusive to software environment making it more secure
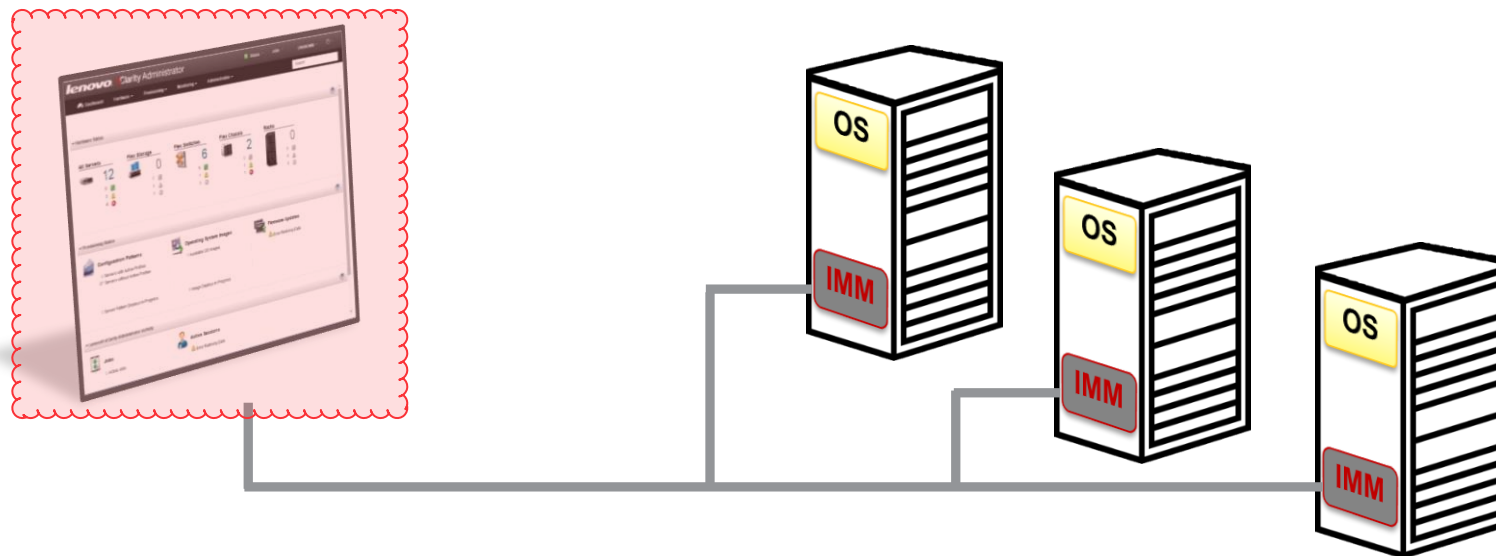
Firmware Management

Enforce compliance

- Ensure firmware on managed endpoints are at specified levels
- Automatically identify & alert on non-compliant systems
- Apply and activate firmware updates

Firmware repository → Create policy → Compliance policy → Apply policy → Server pool

Standardize Configuration Management

Address pools*

Category patterns

Create pattern

Configuration pattern

Deploy pattern
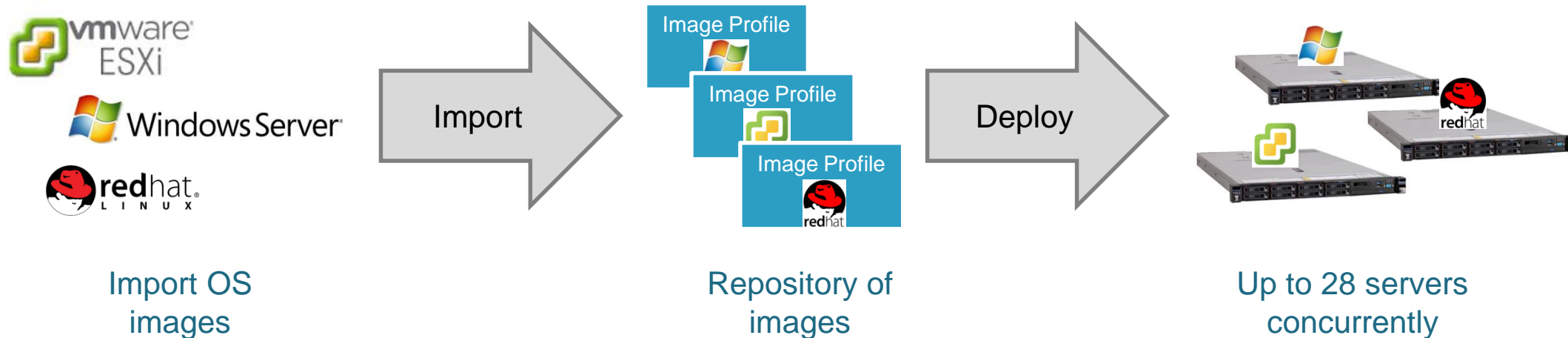
Server profiles

Pattern-based configuration

- Quickly provision, pre-provision, or re-provision multiple servers and compute nodes with a single set of defined configuration settings

* Flex System only

lenovo

OS deployment

- Manage firmware, configuration, and OS deployment from a single solution to save time and increase efficiency

Import OS images → Import → Image Profile / Image Profile / Image Profile (Repository of images) → Deploy → Up to 28 servers concurrently

Lenovo XClarity Administrator Supported Servers and Nodes

Lenovo System x servers

System x3550 M5 (5463)

System x3650 M5 (5462)

System x3850 X6 (6241)

System x3950 X6 (6241)

Lenovo Flex System

Flex System x240 (9532, 2591)

Flex System x220* (7906, 2585)

Flex System x440* (7917, 2584)

Flex System x280 (7196)

Flex System x222* (7916)

Flex System x480* (4259, 7903)

Flex System x440 (7167)

Flex System x240* (8737, 8738)

Flex System x880* (4259, 7903)

Flex System x480 (7196)

Flex System x280* (4259, 7903)

Flex System x880 (7196)

*All features are available except CPU/memory utilization information; RAID-Link Configuration; IMM resource naming
Manage GA4 or later to Update to latest FW (minimum supported GA5B IMM / GA5C CMM)

- **CN4093** 10Gb Converged Scalable Switch
- **EN4093R** 10Gb Scalable Switch
- **SI4093** System Interconnect Module
- **SI4091** 10Gb System Interconnect Module
- **CN4093** 10Gb Converged Scalable Switch*
- **EN4093R** 10Gb Scalable Switch*
- **SI4093** System Interconnect Module*
- **EN2092** 1Gb Ethernet Scalable Switch*
- **EN4091** 10Gb Ethernet Pass-thru*

*All functions are available except: event aggregation and audit logging; IOM configuration patterns (Lenovo CMM required)

Lenovo XClarity Administrator Supported Flex System I/O Adapters

- Finalizing documentation on detailed support and limitations for Flex and rack server IO Adapters
  - Limitations for Updates, Patterns, and OS Deploy
- Link to support and limitations documentation will be available on support website
  - Information updated as vendors resolve limitations