

CA Enterprise Management:

CA Spectrum r9.2.3

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Agenda

- Spectrum r9.2.3 Overview
- Microsoft and IBM Clusters Support
- Cluster Support Capability Tour
- Demo
- Quality Initiative
- Roadmap

CA Spectrum – Project Saratoga(9.2.3)

- Objectives of this release are the following:
 - Strengthening of Spectrum's Systems Management Capabilities through Microsoft Clusters and IBM HACMP PowerHA support
 - Continued support for new and updated devices through certifications
 - Provide a vehicle for maintenance roll-up for enhanced stability
 - **Specific focus on install/upgrade experience & quality in response to comments from the community**
- Objectives of this release are the following:
 - GA Planned: 21th January 2013

CA Spectrum Quality Initiative

Quality Initiatives

- New with Saratoga:
 - Automated installation testing, covered all 17 OS versions that Spectrum supports (as indicated by PM)
 - Covered the 4 different paths of upgrades as identified by PM
- Bug Bash
 - (Additional) Ad-hoc/ Exploratory testing done without following any pre-defined test documentation, to simulate ad-hoc real world usage
 - Test POD & Specific Test Environment
- Performance Testing
 - Components planned to be tested for scalability and longevity:
 - Performance of SpectroSERVER, OneClick, Database, critical fix impact, Systems Management features

Quality Initiatives

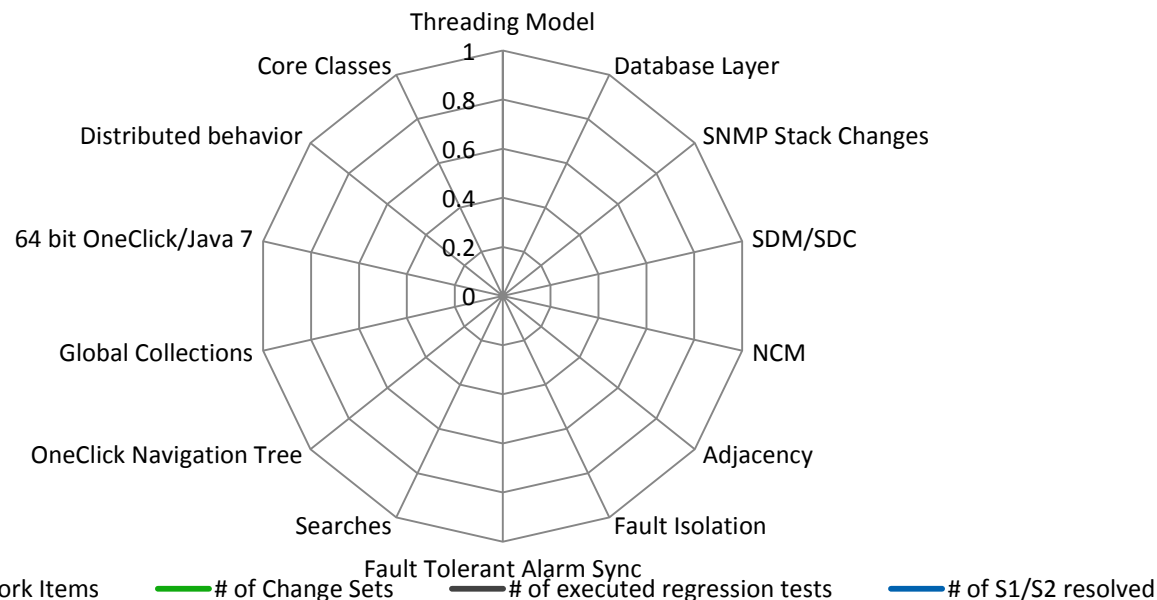
- “Ramp-load testing” for every iteration during development
 - Working with 100s of devices iteratively, for discovery/modeling and trying to “break” Spectro-Server
- Separate Release Scrum Team
 - Not tied to “a” specific component, but end to end testing, upgrades et al
 - Goals of the team:
 - Ensuring that **QUALITY** is baked into the product, not added at the end
 - Focus on the **OPERATION** of Spectrum. Make sure it functions as we say/expect it to, initial focus on Performance
 - **AUTOMATION** should be considered in everything that we do!
 - Step towards **PROACTIVELY** reducing the backlog and enhancing the **LONGEVITY** Spectrum

Release Team Impact

- Guiding the “other” teams on areas to focus – based on information:

Threading Model								
	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5	Sprint 6	Sprint 7	Totals
# of Work Items	0	2	1	1	0	0	0	4
# of Change Sets	0	6	5	2	0	0	0	13
# of Regression Tests Executed	0	31	12	8	0	0	0	51
# of S1/S2 issues open	0	1	5	0	0	0	0	6
# of Work Items	0	2	3	4	4	4	4	
# of Change Sets	0	6	11	13	13	13	13	
# of Regression Tests Executed	0	31	43	51	51	51	51	
# of S1/S2 issues open	0	1	6	6	6	6	6	
Lower = Cumulative								

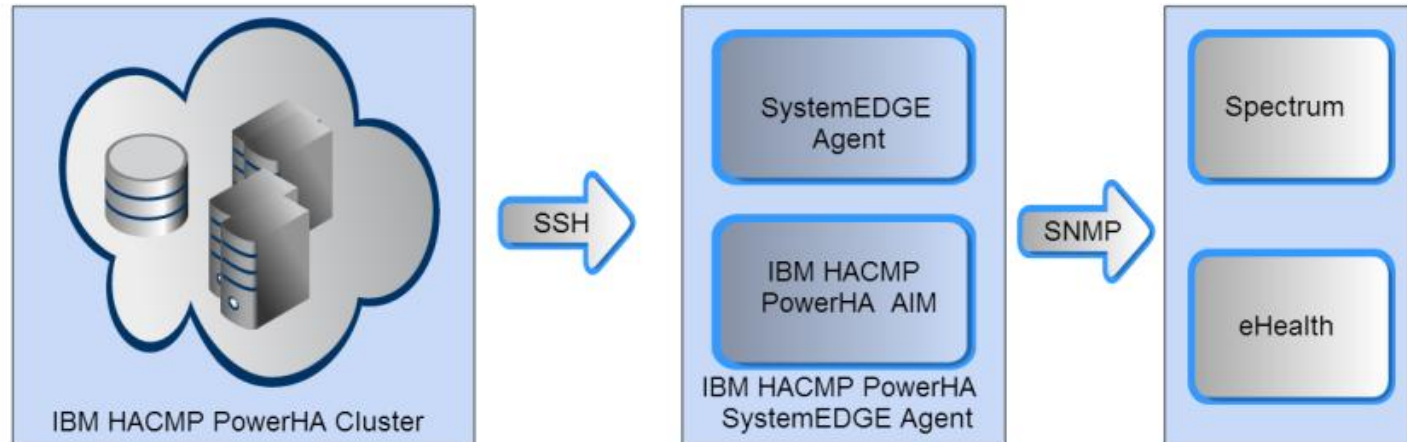
SNMP Stack Changes								
	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5	Sprint 6	Sprint 7	Totals
# of Work Items	0	2	0	0	0	0	0	2
# of Change Sets	0	3	0	0	0	0	0	3
# of Regression Tests Executed	0	8	6	0	0	0	0	14
# of S1/S2 issues open	0	6	7	0	0	0	0	13
# of Work Items	0	2	2	2	2	2	2	
# of Change Sets	0	3	3	3	3	3	3	
# of Regression Tests Executed	0	8	14	14	14	14	14	
# of S1/S2 issues open	0	6	13	13	13	13	13	
Lower = Cumulative								



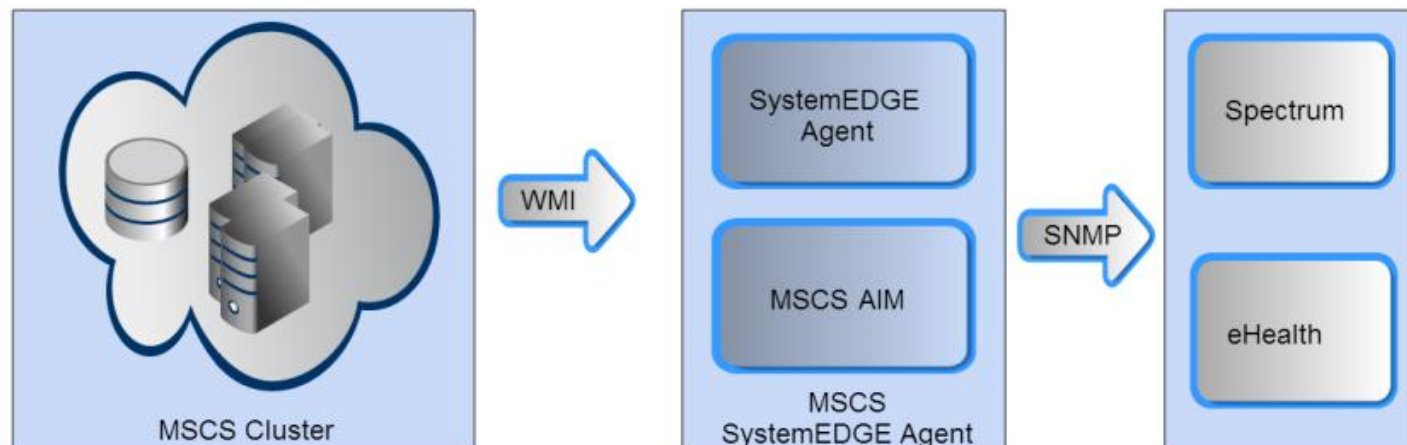
CA Spectrum Support for Microsoft Cluster and IBM PowerHA Monitoring

Solution Overview

- Spectrum Cluster Manager solution architecture leverages the SystemEDGE AIM deployment Architecture



Typical IBM PowerHA AIM Deployment



Typical MSCS AIM Deployment

Cluster AIMs

Technology

- The Cluster AIMs are specialized CA SystemEDGE Application Insight Modules
 - Extension of the CA SystemEDGE agent
 - Resides on its own host
 - Obtains data from Cluster Services that are specific to the clustering technologies
 - Writes data to a CA-developed MIBs (camscsaim & cahacmpaim)
 - Provides MIB data to clients via SNMP requests
- CA Spectrum's Cluster Manager can support multiple AIMs
 - Provisioned within a single SpectroSERVER
 - Distributed across multiple SpectroSERVERs

Cluster AIMs

Packaging & Requirements

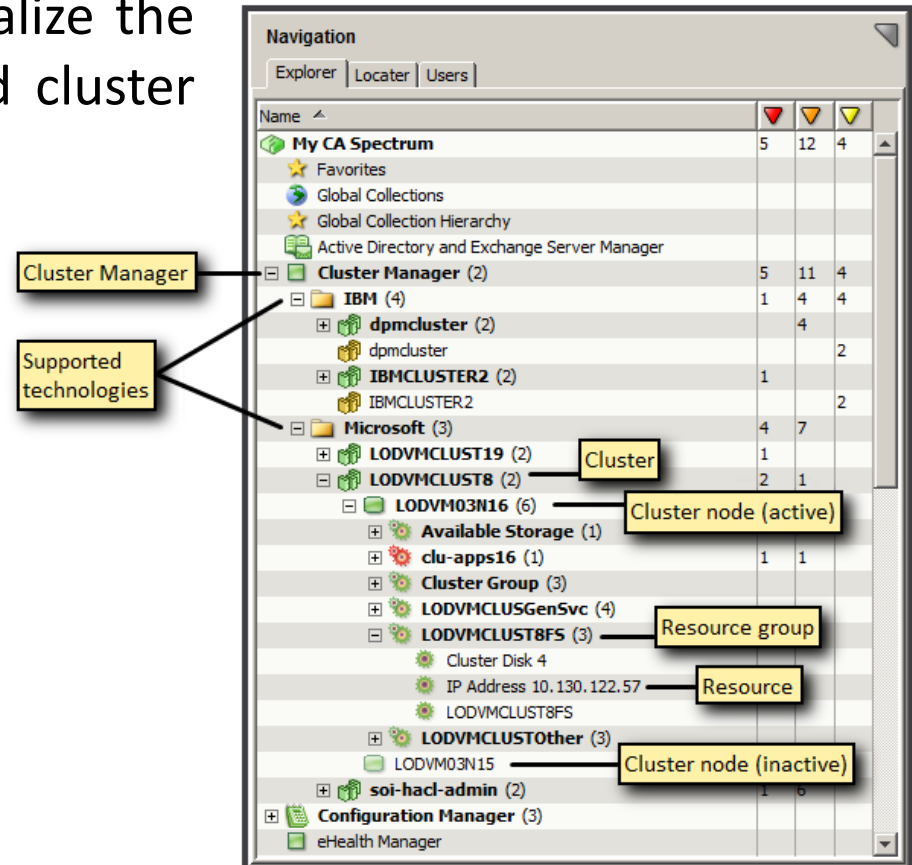
- Will be available as part CA VAIM package
 - Support for use with both CA eHealth and CA Spectrum
- IBM HACMP PowerHA AIM supports monitoring
 - HACMP 6.1
- MSCS AIM supports monitoring
 - Windows 2003 sp2
 - Windows 2008 and R2
- Supported platforms for the HACMP and MSCS AIMs
 - Windows 2003, Windows 2008 Datacenter, Enterprise & Standard, Service Pack 2 and r2

Navigating the Modeled Environment

Navigation Panel Hierarchy

The Cluster Manager hierarchy provides a tree structure that helps you to visualize the logical organization of your managed cluster environments

- Cluster Manager
- Cluster technology
- Cluster
- Cluster node
- Resource group
- Resource



Capabilities of the Solution

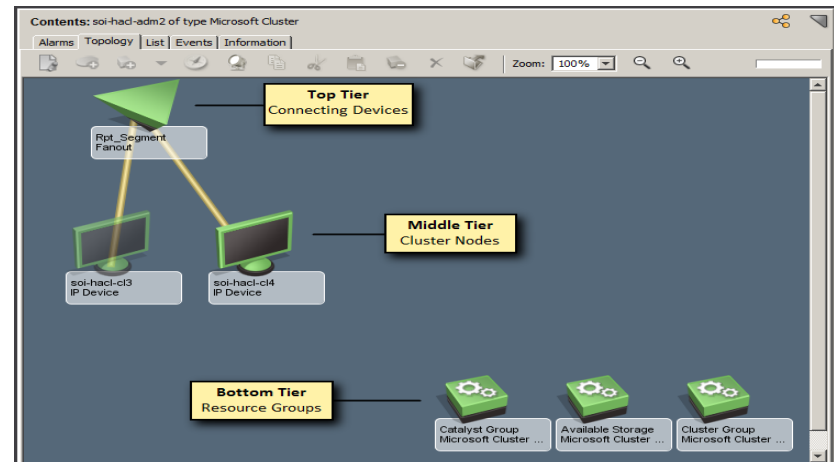
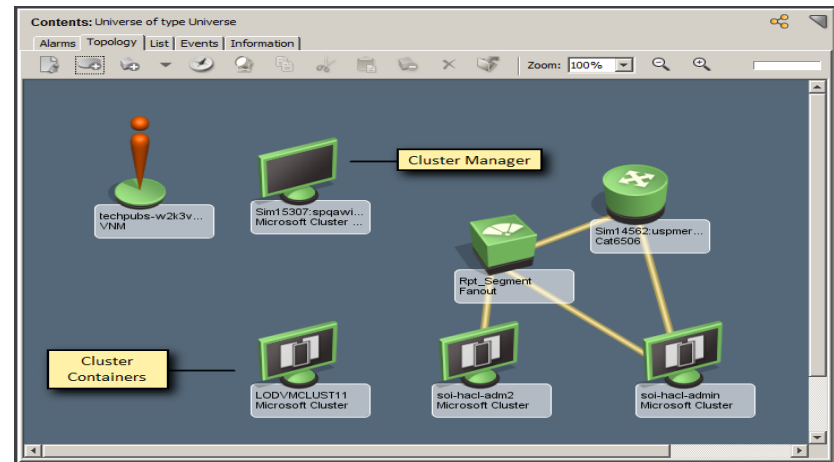
- Enhanced fault management capabilities
 - State-based alarming
 - Enhanced support for SystemEDGE self monitoring traps
 - Recognition and correlation of symptomatic alarms
- One Click Sub-Views
- Locator searches
- Cluster Reports (to come in H11)
- Automatic discovery, modeling
 - Identification & organization of cluster entities in the topology
 - Clusters, nodes and resource groups, active and inactive node identification
- Hierarchical representation of the logical cluster environment
 - Navigation pane
 - Cluster, cluster nodes, resource groups and resources
 - Collation into singular, distributed (multi-landscape) tree

Capability Tour

*Wendy Payne,
Director, Software Engineering*

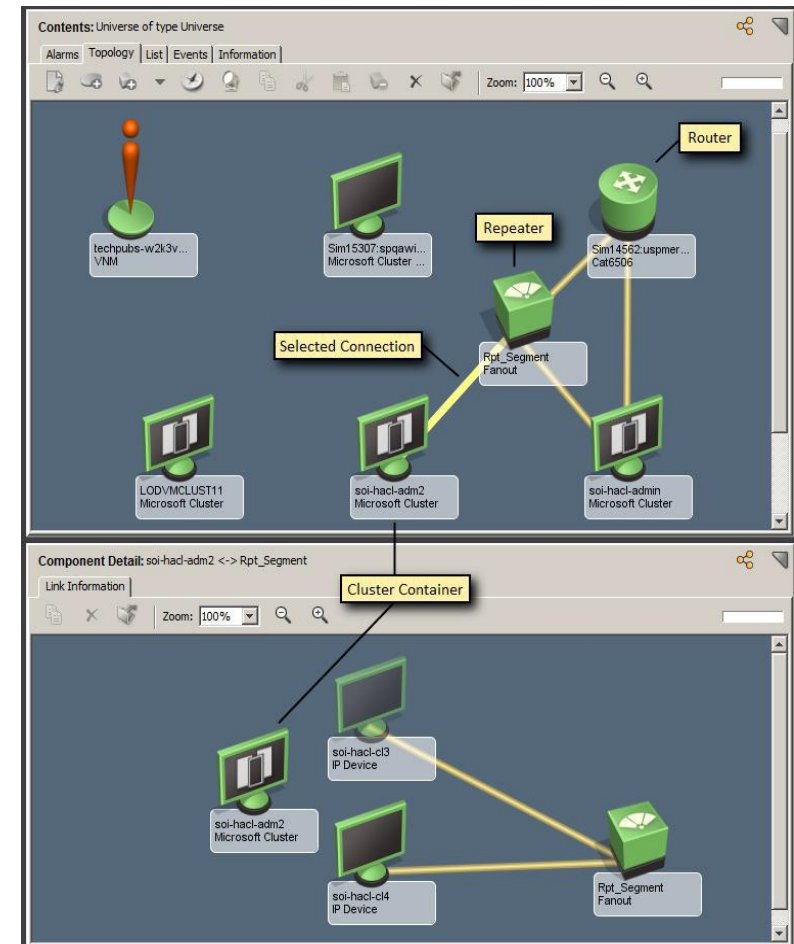
Topology

- This graphical representation helps you to visualize the structure of your managed environment, including connections between cluster nodes and other elements of your network.
- Top tier
 - Displays any off-page references to connecting devices modeled in other views, such as upstream routers, repeaters, and switches. These elements connect your cluster nodes to your network.
- Middle tier
 - Displays the cluster nodes that participate in the cluster.
- Bottom tier
 - Displays the resource groups that participate in the cluster.



L2 Connectivity

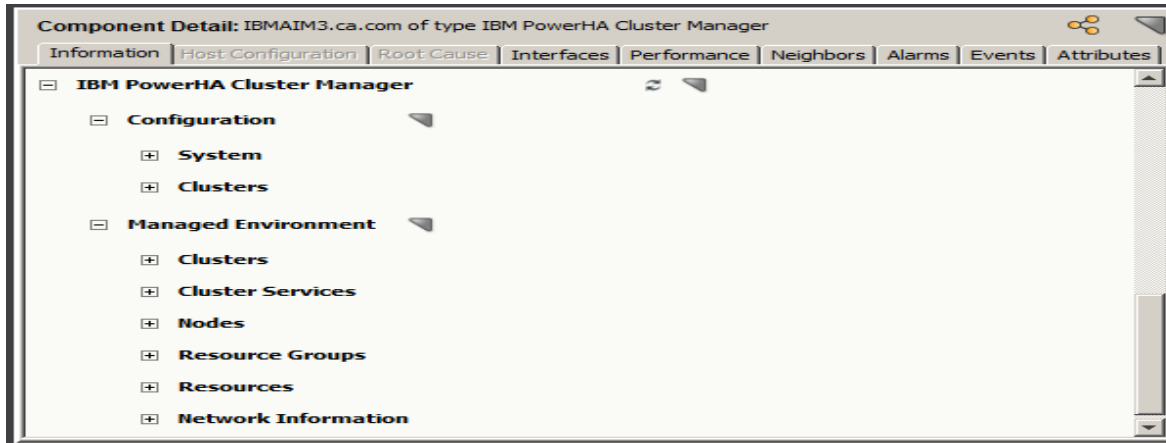
- Cluster Manager provides the links between your cluster nodes and any connecting devices that have been modeled in your network.
- By selecting a connection one can examine the link more closely, and the connections to the specific nodes are displayed.
- Discover Connections runs automatically when:
 - A cluster node is initially discovered and modeled.
 - The IP address or MAC address of the cluster node has changed.
- Discover Connections runs when necessary on the poll cycle. If the Discover Connections process does not complete within a single polling interval, the next poll cycle is postponed.



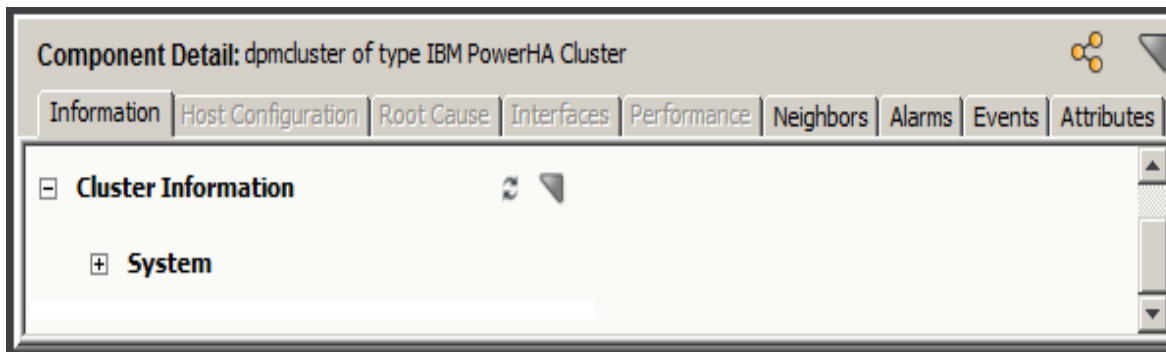
OneClick Views

IBM PowerHA OneClick Views

- Customized views in the Component Detail panel provide detailed information about the components in your cluster environment.
- IBM PowerHA Cluster Manager



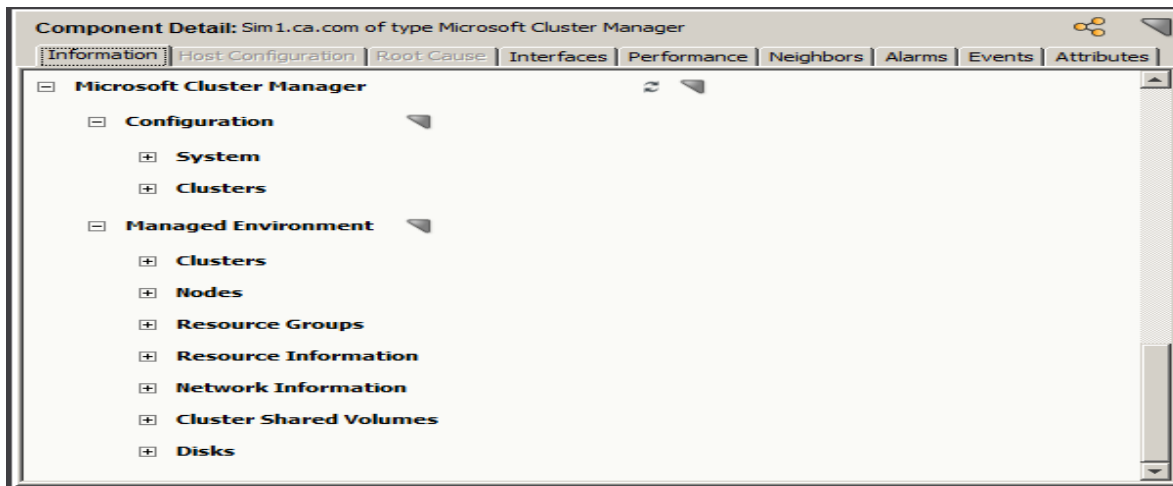
- IBM PowerHA Cluster



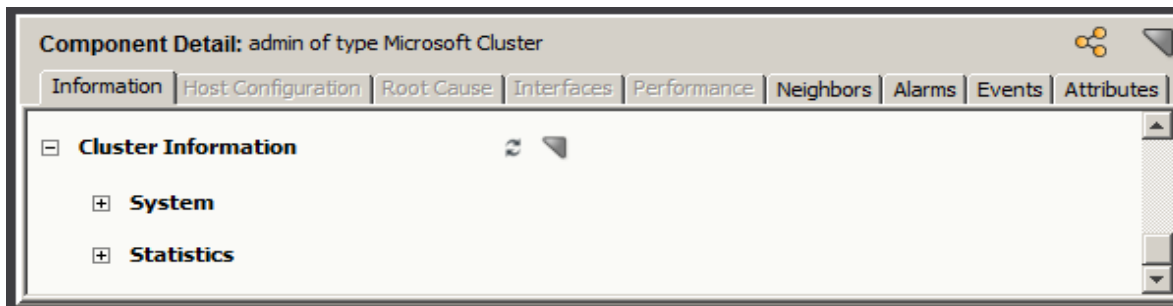
OneClick Views

MSCS OneClick Views

- Customized views in the Component Detail panel provide detailed information about the components in your cluster environment.
- Microsoft Cluster Manager

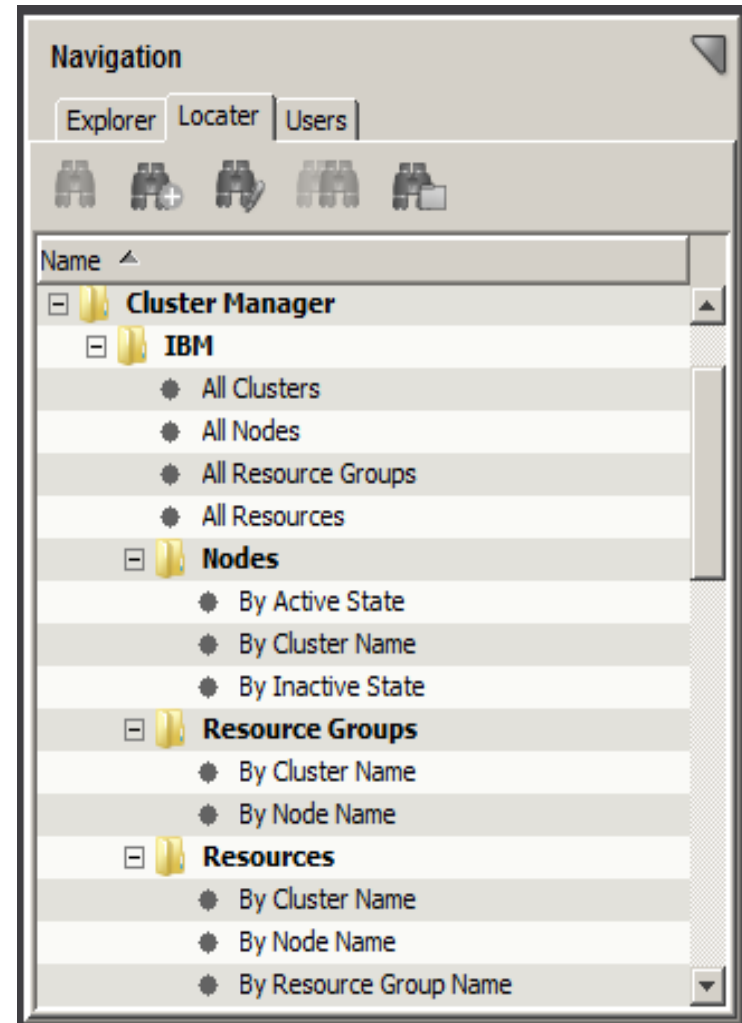


- Microsoft Cluster



Locator Searches

- CA Spectrum provides a collection of preconfigured searches on the Locator tab that are designed specifically for your cluster environment.
- The searches are grouped under the Cluster Manager folder in the Locator tab of the Navigation panel.
- Only users with the appropriate privileges can access Cluster Manager searches.



Demo

Certifications & Other Updates

Key Certification Updates

- Dynamic Alarm Titles for SysEdge Alarms
 - Alarm titles in Spectrum derived from the trap varbinds
- New Cisco ACE (Application Control Engine) Support
 - New Model type CiscoACE to support 4 Cisco ACE devices (Cisco ACE 10K9, Cisco ACE 20K9, Cisco ACE 30K9, Cisco ACE 4710K9)
 - New icons to represent Cisco ACE container and all the contexts belonging to the device
- New Cisco, Dell, Radware and other Devices Certified/Updated
 - Enhanced Cisco Nexus certifications to support 9 additional device
 - Cisco Nexus Firmware version 6.1(1) support
- Spectrum is certified with SCOM 2012

* Enhanced features of SCOM 2012 over SCOM 2007 are not supported

Thank You!

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