Managing ProLiant Servers Running NetWare (2239)

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Product Manager Industry Standard Servers





Topics

- Approach toward NetWare support
- NetWare management capabilities
- Questions and demonstration

Approach toward NetWare Support



- NetWare is an important platform for ProLiant servers and an important platform for ProLiant manageability.
 - Continue to update key management capabilities for NetWare including fault management, inventory management, configuration management, and BIOS and driver delivery
- Not all new functionality will be ported to NetWare
 - Functionality delivered first for Windows and Linux
 - Functionality evaluated for NetWare ports based on customer demand and development resources
- Working with Novell to gain assistance in porting some key capabilities



NetWare Server Deployment

- Full support for NetWare assisted installation under SmartStart.
- Full support for SmartStart scripting toolkit to allow scripted configurations of hardware settings including RAID.
- Insight Diagnostics available in offline mode from SmartStart CD. Can be run remotely using RILOE/iLO virtual CD.
- SmartStart automatically lands NetWare PSP which contains drivers and agents for all hardware platforms.



NetWare Management Agents

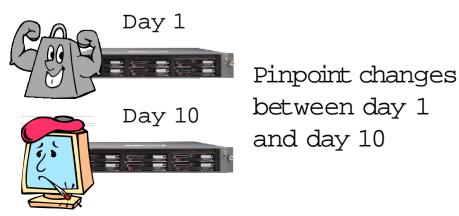
			System Name : NOVELL
Management Agents		Manually Refreshed @ T	uesday, July 29, 2003 3:17:52 PM
Version 6.30	Summary <	8	
Help Summary Device Home Options	HIS STATISTICS	-	
Condition Legend			
Degraded X Failed	🗹 NOVELL: Pr	oLiant DL360 G2	
	Contact Information:	Brad Kirby	
	Location:	156A76	
-	IP Address:	192.168.1.100	
NFIGURATION	Current Webagent User:	anonymous login	
Software Version Info	Unit Identification LED:	OFF	
System Info			
System Board	Failed or De	graded Items	
Con Boards	No	ne	
System Resources			
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File System Space			
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- Maintains overall hardware status for managed systems
- Sends hardware events to Insight Manager 7 console
- Displays processor and disk utilization statistics
- Displays list of running NLMs, users, and other OS related information (NetWare only)
- Provides access to RILOE/iLO
- Displays array controller status and disk rebuild after failure
- Displays NIC health and utilization statistics

NetWare Configuration Management via Survey



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SURVEY U	UTILITY REPORT	NOVEL 192.168.1.10 Wednesday, July 30, 2003 10:68-18 AM
Version 2.54	Help Device Home Options Refresh	administrato
-pand Rt. Cottapae Att. Session Information Syste	m Components NetWare	
Session Information		
Primary Session	July 30, 2003 10.04446 Survey JDI, Session 10	
Compare Session	July 25, 2003 16:40:59 Survey IDI, Semion 2	
Report Type	Show Standard Details and Differences:	
Periodic Sample	Petiodic Sample is scheduled on Monday at 7AM. Recurs every 1 week.	
System Components		
Product	Compag ProLiant DL360 92 (null)	
Processor	Intel Pentium (f) III processor at 1.400 GHz	
Processor	Intel Pentium ()) III processor at 1.400 GHz	
Firmware Revisions	SystemRDM (09/16/2002)	
▶Operating System	NetWare 6.0	
Keyboard	Enhanced 101-Key	
PUSB Part		
Mass Storage	Disk Controllier: 0	
Display Controller		
Bus Architecture		
▶System Resources		
Compaq Integrated Management Log		
Server Recovery		
Compag EISA Configuration and Utility Partiti	ion	



- Provides detailed single server inventory report
 - Hardware configuration
 - Operating system information including upgrades and patches
- Provides configuration snapshot comparisons
 - Detect changes to hardware and OS configurations over time
 - Supports up to 10 comparisons
 - Comparisons schedules at user-defined intervals

2003/11/17

NetWare Remote Management via iLO/RILOE



	Server Name: NOVELL iLO Name: ILO6J2BJNT1F004 Logged in: Administrator	iLO INTEGRATED LIGHTS-OUT	
System Status	Remote Console Virtual Devices Administration	Insight Agent Log out	
Status Summary	💁 1.0 Remote Console - Microsoft Internet Explorer		
iLO Status Server Status	Remote Console Novell If necessary, click in Remote Console image below to enable keyboard input.		
iLO Event Log	Refresh Ctri-Alt-Del Alt Lock Character Set 437: US		
Integrated Management Log	Wednesday, July 30, 2003 12:44:44.892 pm CDT NOVELL: NOVELL:		
Server and ILO Diagnostics	Loading Hodule XMOPAP.NLM (0K) Loading Hodule NUETROOT.NLM (0K) Loading Module NUETROOT.NLM (0K) Loading Module JCLMT.NLM (0K) Auto-Loading Module JCLMT.NLM (0K) Loading Module JDPS.NLM (0K) Auto-Loading Module JDPS.NLM (0K) Loading Module JDPS.NLM (0K) Auto-Loading Module JDPS.NLM (0K) Auto-Loading Module JDPS.NLM (0K) Loading Module NMDCPNT.NLM (0K) Loading Module NMDCPNT.NLM (0K)	pt	
🕘 Done	Online		

All remote sessions Protected by 128 bit SSL

- Delivers full access to NetWare console and GUI.
 - View system post
 - Access console remotely
- Restart system
- Toggle UID light
- View server logs
- User management and authentication integrated with eDirectory
- Leverage Virtual Floppy for BIOS updates (RILOE II only)

Managing NetWare Systems using Insight Manager 7



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Agent	Agent	Agent	Agent

- Supported under NetWare
 - Automatic discovery and identification via IP and IPX
 - Status polling & agent launch
 - E-mail/pager notification
 - Inventory reports
 - MIB compiling and editing
 - RILOE/iLO discovery & launch
 - VCDB-based version control
 - Launched Novell tools
- Not supported under NetWare
 - Version control via Version Control Agent
 - Single login
 - Group configuration

Launching NetWare Remote Manager



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ll Queries Device	Connections -	Console Commands				
All	Set Parameters	Console Commands				
O Devices b	Schedule Tasks					
O Devices b O Devices b	Console Commands	Console Screens				
O System fu	View Memory					
Event Cluster	Config	Command	Owner	Info		
Favorites	View Statistics	#	SERVER.NLM	٩		
	Down / Restart	;	SERVER.NLM	۲		
	Manage Applications	ABORT REMIRROR	SERVER.NLM	(1)		
	List Modules	ADD NAME SPACE	LFS.NLM	0		
	Protected Memory	ALERT	SERVER.NLM	(1)		
	System Resources	ALIAS	SERVER.NLM			
	NetWare Registry	APPLET	JAVA.NLM	(i)		
	Winsock 2.0	APPLETVIEWER	JAVA.NLM	(i)		
	Protocol Information	BIND	LSL.NLM	0		
	Java Application	BINDERY	SERVER.NLM	(i)		
	Manage Hardware	BROADCAST	CONN/MGR.NLM	(I)		
	Processors	CLEAR STATION	CONNAGR.NLM	~		
	Disk / LAN Adapters	CLS	SERVER.NLM	(i)		
ing https://im7se	PCI Devices	005	SERVERANEM	•		

Leverage the power of Novell's management tools From Insight Manager 7

- Insight Manager 7 provides access to NetWare Remote Manager from device page
- Make use of all Remote Manager capabilities from Insight Manager 7
 - Start/Restart system
 - Load and unload NLMs
 - Schedule tasks
 - View application health
 - View log files
 - Manage eDirectory
 - Access to remote console
 - More...

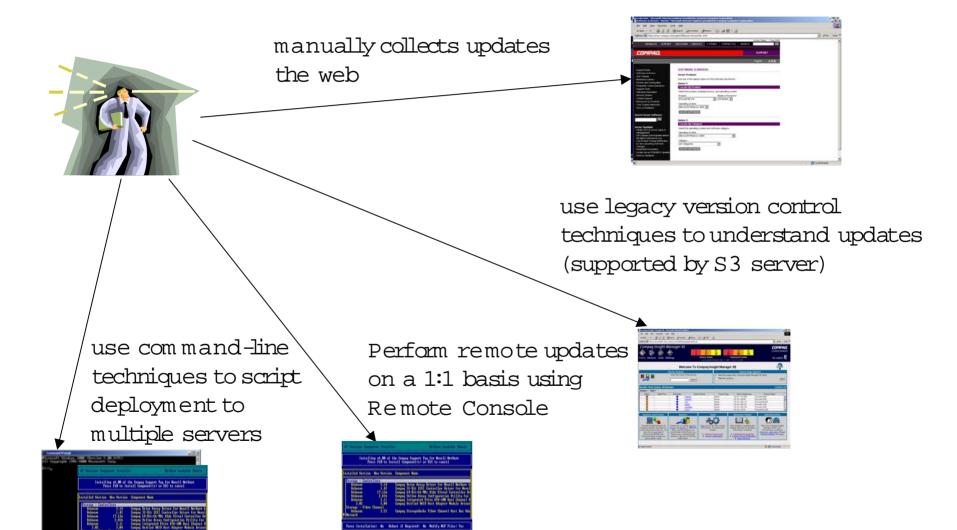


NetWare Version Control

- Currently most frequently requested feature from NetWare customers and field
- Let's discuss current version control capabilities and possible upgrades pending discussions with Novell

Netware Version Control before the PSP





HP World 2003 Solutions and Technology Conference & Expo

Netware Version Control Improves with PSP



manually collects updates from the web



script the deployment of the PSP to multiple servers



PSPs allow customers to simplify the process by simply collecting the tested bundle and scripting the install for the entire bundle (this significantly reduces the need for Legacy Version Control)



Netware PSP Overview

The Netware PSP provides customers who do not use IM7 version control with a comparable experience between the Microsoft and Netware (soon to include Linux) environments

Availability of a tested set simplifies the collection and management of changes for Netware customers <u>and</u> <u>significantly reduces the importance of Legacy Version</u> <u>Control</u>

The scriptability of the PSP simplifies the updating of software on remote servers for Netware customers

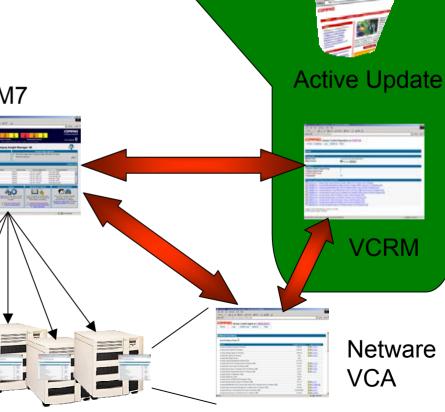
The fact that the bundle is tested and approved by HP provides some intrinsic value for our Netware customers

NetWare VCA under investigation



VCRM 2.0 Customer •Netware SW updates would IM7 be automatically delivered to VCRM. (already supported by current VCRM) •Netware VCA would surface SW status for Netware servers to IM7.

•IM7 provides full-featured notification, decision, and deployment support analogous to Microsoft environment (and soon to be Linux) 2003/11/17





- Netware VCA will integrate Netware customers into the full-featured version control solution provided through IM7.
- The current VCRM is ready to support Netware all that needs to be done is to develop the Netware VCA.
- Novell has indicated they are willing to significantly help us in doing the development for the Netware VCA
 - Director of Product Management for Netware "Integrating into this IM7 solution sends the message that Novell is still a recognized enterprise platform by HP. Its worth whatever it costs to get this done."
 - Development resources available in India to do the work.



Questions and Demonstration



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