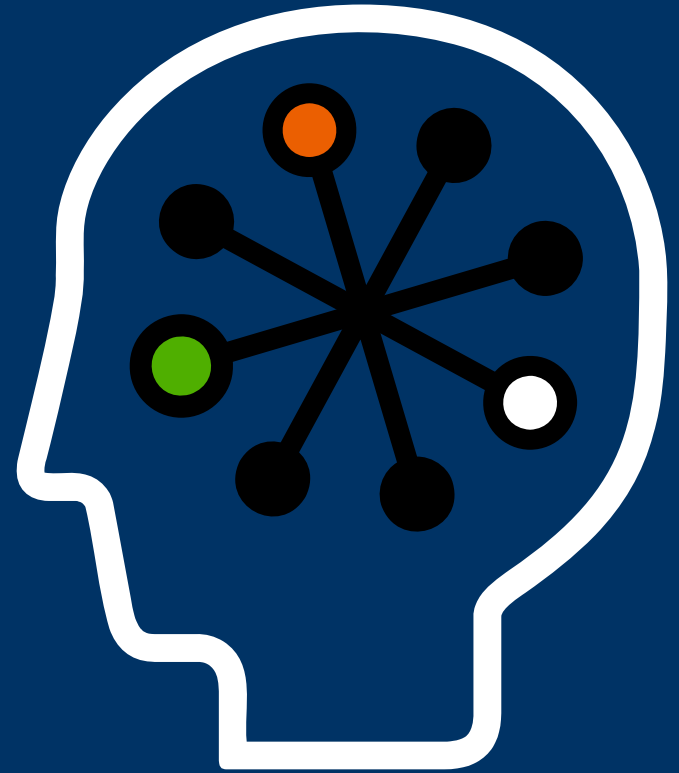


HP-UX 11i v3 Knowledge-on- Demand

HP technical Webcast series:
deployment optimization



HP-UX 11i v3 Knowledge-on-Demand

- Objective: Support developers, deployment personnel and customers in achieving better business outcomes with HP-UX 11i
- What HP is providing: A series of technical on-demand training Webcasts
 - Focused on helping people who deploy HP-UX Integrity solutions increase performance through optimizing their installations for HP-UX 11i v3 on HP Integrity servers
 - Available at www.hp.com/go/kod

HP-UX 11i v3 Knowledge-on-Demand webcasts – planned topics

- HP-UX 11i v3 operating system optimization
 - Dynamic nPartitions
 - HP-UX 11i v3 tunables
 - I/O optimization
 - System Management Homepage
 - Software Assistant
 - GlancePlus
 - Performance trouble-shooting on v3
- Optimizing high availability configurations
 - Serviceguard configuration and manageability
 - Configuring Serviceguard with Oracle RAC
 - Serviceguard delta training
- Optimizing virtualized configurations
 - Capacity advisor
 - Workload monitoring and management
 - System sizing with HP VM

Additional
Webcasts to be
published going
forward!

Topics subject to change without notice.

Related HP-UX 11i v3 resources

- All deployment resources
 - HP-UX 11i developers content
www.hp.com/go/hpuxdev
 - HP-UX 11i v3 news, functionality, product download, and services resources
www.hp.com/go/hpux11i
 - HP Integrity server product information
www.hp.com/go/integrity

We hope you enjoy this Knowledge-on-Demand topic!

Thank you for taking time to learn about HP-UX 11i v3 and related technologies.

Please provide feedback on today's topic and/or future topics by using our online HP-UX 11i Knowledge-on-Demand Feedback form:

www.hp.com/go/kodfeedback



Serviceguard HA cluster solutions

HP technical Webcast series: deployment optimization



Technology for better business outcomes

Introducing today's speaker

- John Foxcroft has spent the last 12 years in the Serviceguard R&D lab.
- John is responsible for support planning, training development and delivery, and Serviceguard solutions consulting.



HP-UX 11i v3 and HP Serviceguard: Update

- Serviceguard 11.18 on v3
- Serviceguard Storage Management Suite 2.0 on v3
- Continentalclusters and Metrocluster on v3



Purpose, audience & prerequisites for today's talk

Purpose

- To share with our audience the latest information regarding the ACSL Serviceguard High Availability (HA) and Disaster Tolerant Clusters products and solutions.

Audience

- Personnel responsible for technical presales, implementation and support of the Serviceguard HA and Disaster Tolerant Clusters solutions.

Prerequisites

- It is expected that the audience have training and/or equivalent presales, implementation or support experience with Serviceguard, SGeRAC and the DT Cluster solutions.

Serviceguard

- Supported on HP-UX 11i v1, v2 , and v3
- Also runs on Linux (Red Hat and SuSE)
- Products and Add-ons
 - Serviceguard Storage Management Suite (SMS)
 - Serviceguard Extension for RAC (SGeRAC)
 - Serviceguard Extension for Faster Failover (SGeFF)
 - Serviceguard Extension for SAP (SGeSAP)
 - Enterprise Cluster Master Toolkit (ECMT), HA NFS
 - Serviceguard for Linux Toolkits (Oracle, NFS, SGeSAP)
 - Disaster Tolerant Solutions
 - Extended Distance Clusters (XDC for Linux)
 - Metrocluster for XP, EVA and EMC SRDF
 - StorageWorks Cluster Extension XP/EVA (for Linux)
 - Continentalclusters

Serviceguard and HP-UX 11i

- Supported on
 - HP-UX 11i v1
 - SG A.11.16 (no SG SMS)
 - HP-UX 11i v2
 - SG A.11.17 Dec'05 (SMS A.01.00; Veritas 4.1)
 - SG A.11.18 June'07 (SMS A.01.01; Veritas 4.1)
 - SG A.11.18 July'07 (SMS A.02.00; Veritas 5.0)
 - HP-UX 11i v3
 - SG A.11.17.01 Feb'07 (no SG SMS)
 - SG A.11.18 Sept'07 (no SG SMS)
 - SG A.11.18 4CQ 2007 (SMS A.02.00; Veritas 5.0)
(subject to change)

Serviceguard Version A.11.17.01 for HP-UX 11i v3

- Serviceguard version A.11.17.01
 - Originally shipped February 2007 (with HP-UX 11i v3)
 - Major features
 - Serviceguard and SGeRAC support for HP-UX 11i v3
 - Multi-node packages
 - Package Dependencies
 - 10g RAC Integration Framework and Toolkit
 - Does NOT include the Serviceguard SMS
 - Support for mixed HP 9000 & Integrity clusters

Serviceguard A.11.18

- Supports HP-UX 11i v2, HP-UX 11i v3 and Linux
- Supports Serviceguard Storage Management Suite A.01.01 (Veritas 4.1) and A.02.00 (Veritas 5.0) on HP-UX 11i v2
- SGeRAC A.11.18 includes Toolkit for Oracle 10g RAC
- New features (both HP-UX and Linux platforms)
 - Online modification of cluster configuration parameters
 - Online modification of cluster network components
 - Multi-node packages
 - Same node package dependency and priorities
 - Modular Packages
 - Lock LUN for SG/UX
 - Serviceguard Manager plug-in (B.01.01)

Serviceguard release schedule – HP-UX 11i

- Serviceguard A.11.18
 - HP-UX 11i v2 – June 2007
 - AR0706 – T1905CA
 - Mission Critical Operating Environment (MCOE)
 - HP-UX 11i v3 – September 2007
 - AR0709 – T1905CA
 - Mission Critical Operating Environment (MCOE)
- Serviceguard Storage Management Suite 2.0
 - HP-UX 11i v2 – July'07
 - HP-UX 11i v3 – 4CQ 2007 (subject to change)

Serviceguard A.11.18 for HP-UX 11i v3

- Released September 2007 (AR0709)
 - Includes same features as A.11.18 for HP-UX 11i v2
 - Extended Distance Cluster support
 - Supports HP-UX agile addressing, native multipathing and load balancing
 - HP-UX olrad -C command identifies SG NICs for online removal
 - Serviceguard now supports the LAN Monitor mode of APA
 - Serviceguard supports Process IDs upto max supported by HP-UX
 - Serviceguard supports cell OL*
 - Can now use FSWeb utility to configure LVM/SLVM in a SG/SGeRAC cluster
 - VxVM 4.1 from Symantec is supported (not 3.5)
- First availability of Serviceguard SMS for HP-UX 11i v3
 - 4CQ 2007 (subject to change)
 - Including Cluster File System (CFS/CVM 5.0)

SGeRAC A.11.18 for HP-UX 11i v3

- Released September 2007 (AR0709)
 - Includes same features as A.11.18 for HP-UX 11i v2
 - Oracle RAC 9.2 and 10gR2 with SLVM
 - Oracle RAC 10gR2 with ASM over SLVM and ASM over raw disks/LUs
 - Extended Distance Clusters with SLVM
- First availability of Serviceguard SMS for HP-UX 11i v3
 - 4CQ 2007 (subject to change)
 - Including Cluster File System (CFS/CVM 5.0)

SGeRAC 11.18/HPUX 11i v2

RAC support matrix (subject to change)

		9.2 RAC				10gR2			
		CVM 3.5	SLVM	CVM/CFS 4.1	CVM/CFS 5.0	SLVM	ASM/ SLVM	CVM/CF S 4.1	CVM/CFS 5.0
Cluster size		8	16	8	8	16	16	8	8
Heartbeat limitation		Single	none	none	none	none	none	none	none
SGeFF 2-node, 2HB		No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended Cluster	10km	2,4,6,8	2	2, 4 ,6 ,8	2, 4 ,6 ,8	2	no	2,4,6,8	2,4,6,8
	100km	2		2	2			2	2

- Supported for HP Integrity Servers
- HP 9000 servers – target 12/07 (pending Oracle certification)

SGeRAC 11.18/HPUX 11i v3

RAC support matrix (subject to change)

		9.2 RAC	10gR2		
		SLVM	SLVM	ASM over SLVM or raw disks/LUs	CVM/CFS 5.0
Cluster size		16	16	16	8
Heartbeat limitation		none	none	none	none
SGeFF 2-node, 2HB		Yes	Yes	Yes	Yes
Extended Cluster	10km	2	2	no	2,4,6,8
	100km				2

Note: 9.2 RAC may not be supported with SMS 2.0 (CVM/CFS 5.0)

- • 4CQ2007 – Integrity Servers
- 1CQ2008 – HP9000 Servers

Serviceguard A.11.18 for HP-UX (new features in Oct'07 patches)

- October 2007 patch release for Serviceguard A.11.18 on HP-UX 11i v2 and 11i v3 includes defect fixes and the following new features:
 - New `cmmigratepkg` command for migrating legacy packages to modular packages
 - VxVM Volume Monitor
 - Alternate Quorum Server Subnet
 - Other package changes
 - `package_application` parameter
 - Package halt reason environment variable

Refer to the October'07 Serviceguard Release Notes for more details

Serviceguard A.11.18 for Linux (new features in Oct'07 patches)

- October 2007 patch release for Serviceguard A.11.18 on Linux (Red Hat 4 and 5, SLES 10) includes defect fixes and the following new features:
 - New `cmmigratepkg` command for migrating legacy packages to modular packages
 - Alternate Quorum Server Subnet
 - Other package changes
 - `package_application` parameter
 - Package halt reason environment variable
 - Support for HPVM and VMware ESX Server

Refer to the October'07 Serviceguard Release Notes for details

Disaster tolerant clusters update

- HP-UX 11i v3 support:
 - Available Sept. 2007 (AR0709):
 - Continentalclusters A.06.01
 - with Serviceguard A.11.17.01 or A.11.18
 - Metrocluster with Continuous Access XP A.06.00
 - with Serviceguard A.11.17.01 or A.11.18
 - (WARNING) Metrocluster with EMC SRDF A.05.02
 - Released on AR0709 – should not be used until pending defects are resolved !
 - Planned for AR0712:
 - Metrocluster with Continuous Access EVA A.02.00
 - with Serviceguard A.11.17.01 or A.11.18
- HP VM support – is now available for Metrocluster
 - Metrocluster now supports HP VM 3.0 with VMs configured as Serviceguard Packages in 11i v2 host environments. Versions supported are:
 - Metrocluster CA-XP A.06.00
 - Metrocluster CA-EVA A.01.00
 - Metrocluster SRDF A.05.02

Thank you!



