

Announceu	14 ^m Oct 2012		
.://www-01.ibm.com/common/ssi/cg Διαίαμο	i-bin/ssialias?infotype=AN&subtype=C	A&htmlfid=897/ENUS211-354&appname:	⁼USN
Please read the	a Release notes:		
http://www-01.ibm.com	/support/docview.wss?rs=	0&uid=isg400000876	
VIOS 2.2.1.3 FixPack 25 SP01 Virtual I/O Server 2.2.1.0 VIC 01 Readme	S 2.2.1.3 FixPack 25 SP		
Readme file for: VIOS 2.2.1.3 FMPack 25 SP01 Product/Component Release: 2.2.1.0	Rate this page:		
Update Name: VIOS 2.2.1.3 FixPack 25 SP 01 Fix ID: VIOS 2.2.1.3-FP25-SP01 Publication Date: 14 Dec 2011 Last modified date: 14 Dec 2011	Average rating 0 user(s)		
Contents	Add comments		
Download location Known issues	Document information	Power Systems	
Installation information	Virtual VO Server Reference #:		
Prior to installation Installing	00000876 Modified date:	virtual VO Server	
Performing the necessary tasks after installation	22111225		
		IBM	





































List cluster & d	cluster nodes	5		State	2 012 IBM
<pre>\$ cluster -list</pre>					50013
Cluster Name	Cluster ID				
galaxy \$	68c06102fc531	1e093c8f602	27171	fc64	
\$ cluster -statu Cluster Name galaxy	s -clustername State OK	galaxy			
Node Name	MTM	Partition	Num	State	Pool State
diamondvios1	8233-E8B02100	271P	2	OK	OK
diamondvios2	8233-E8B02100	271P	1	OK	ок
redvios1	8203-E4A0310E	0A41	1	OK	ок
\$ Examp	le of a 3 node o	cluster			







				-
			%	
\$ lscluster -d			· · · · · · · · · · · · · · · · · · ·	
Storage Interface Query			°0	
Cluster Name: galaxy			S.	2012 IBW
Cluster uuid: 68c06102-fc53-11e0-93c8-f6027171fc64				
Number of nodes reporting = 3				30
Number of nodes expected = 3				0
Node redvios1.aixncc.uk.ibm.com				~~
Node uuid = 85eebf9e-0671-11e1-861c-f60271718d0d	Hoschalle	redvoisi		9
Number of disk discovered = 4	\$ Ispv			~
hdi sk9	NAME	PVID	VG	STATUS
state : UP	hdisk0	000e0a41ff0ec86c	None	
uDid : 3E213600A0B8000294FF8000007DE4E6F18DB0F1814 FAStT03IBMfcp	hdisk1	000e0a41a06ed683	rootvg	active
uUid : 5cd24000-5c18-74b5-e873-49841d016e22	hdisk2	000e0a41a06ed737	None	
type : CLUSDISK	hdisk3	000e0a41d4654e89	None	
hdisk6	hdisk4	000e0a41d4654f64	None	
state : UP	hdisk5	000e0a41ba665a09	None	
uDid : 3E213600A0B800029492E00001A084E6F15DA0F1814 FAStT03IBMfcp	hdick6	0046027197444995	Nono	
uUid : 6ef71f2d-467d-732f-3aee-f6dc865dde53	hdisk0	0046027107444055	None	
type : CLUSDISK	hdisk/	0010027187031664	None	
hdisk7	naisk8	UUI602/18/d5IU29	caavg_private	a active
state : UP	hdisk9	00f6027187d6c664	None	
uDid : 3E213600A0B8000294FF8000007E04E6F192F0F1814 PAStT03IBMfcp				
uUid : 957a8286-c93d-e46e-84a8-151aed13c5f3	\$ lspv -	size		
type : CLUSDISK	NAME	PVID	SIZE (megabyte	es)
hdisk8	hdisk0	000e0a41ff0ec86c	140013	
state : OP	hdisk1	000e0a41a06ed683	140013	
uDid :	hdisk2	000e0a41a06ed737	140013	
u01d : 18/55566-6df2 ed90-e915-0839aed/cda4	hdick3	00000241d4654089	140013	
type : REPDISK - EPOSTIORY DISK	hdiahd	0000004124654664	140013	
Node diamondviosi.aixncc.uk.ibm.com	hulsk4	000000000000000000000000000000000000000	140013	
Node uiid = 68ab88e-rC53-1160-93C8-r602/1/1rC64	naisko	00000041Da665a09	140013	
Number of disk discovered = 4	hdisk6	001602/18/d44895	16384	
	hdisk7	00f6027187d51e64	16384	
	hdisk8	00f6027187d5f029	15158	
ubid : SE215000A0B6000234FF600000/DE4E6F16DB0F1614 FASCI05IBMICP	hdisk9	00f6027187d6c664	20480	
bdiek2				
Unid - 3F21360030B800029492F000013094F6F15D30F1914 F36+T03TBMfor				
ulid 6 6671f2d-467d-732f-3ae-f6dc865dde53				
bdisk3				
state · IIP				
uDid : 3E213600A0B8000294FF8000007E04E6F192F0F1814 FASt_T03IBMfcp				
uUid : 957a8286-c93d-e46e-84a8-151aed13c5f3				
type : CLUSDISK				
hdisk4				
state : UP				
uDid :				
uUid : 187b5b66-6df2-ed90-e91b-0839aed7cda4				
type : REPDISK				























Copas Mon	itor 1.	or host	: di: ======	amondvi(osiInt	terval:	2	Fri (Jan 14	14:46:00) 20:
lisk	<mark>B</mark> usy%	KBPS	TPS	KB-R	ART	MRT	KB-W	AUT	MWT	AQU	AQI
ldisk2	41.0	17.6K	493.0	0.0	0.0	174.6	17.6K	1.1	14.6	0.0	0.0
ldisk3	34.0	20.OK	160.0	0.0	0.0	186.4	20.OK	2.9	13.1	0.0	0.
ldisk1:	3.0	24.0	6.0	0.0	0.0	112.0	24.0	0.6	158.8	0.0	Ο.
diskO	0.0	8.0	2.0	0.0	0.0	10.2	8.0	4.1	64.2	0.0	Ο.
aa priva	0.0	17.0	5.0	9.0	0.1	2.1	8.0	0.5	6.9	0.0	ο.
ndisk1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	ο.
:d0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ο.
One c Disk I	lien /O s	t VM	runi d ac	ning: ross	ye dis	s >/t sks	mp/x	(\ † \		













IBM Systems Director	*								-
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View: All tasks 💽 🔺	Home ×	Resource Ex	× Active and	× Health	Summary × Proble	ems(1) ×	Seler	st Action	•
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Resource Explorer	Problems								
Welcome	View th	e active proble	ems reported	for the targe	ted systems.				
My Startup Pages	Problem	ns - goldvios1	(Active						
Automation	Status)								_
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			alert event rec	eived is: Thr	shold Exceeded.	38418284227118194	CDIDU2/1/15IC2 THe		
# security								_	
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System Status and Health									
Performance Summary Health Summary									
= Monitors									
= Thresholds									
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Active Status									_
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Snapshot – o	reate and	list		918 184 184 1 00 2012 IBM 00 2012 IBM
<pre>\$ snapshot -crea \$ spname atlant;</pre>	te diamond5s ic -lu vdisk	s.snap -clustern a _diamond5a	ame galaxy	
List \$ snapshot -list Lu Name vdisk_diamond5a Snapshot diamond5s.snap	-clusternam Size(mb) 16384	ne galaxy - spname ProvisionType THIN	atlantic Lu Udid b3f3a .	
Also snap shots \$ lssp -clustern Lu Name vdisk_diamond5a Snapshot diamond5s.snap	appear in th ame galaxy - Size(mb) 16384	-sp atlantic -bd ProvisionType THIN	Lu Udid b3f3a .	
vdisk_diamond6a	16384	THIN	4c9e9 .	



















User Interface
Command line
 Already shown in this presentation by example
– Some feature will remain command line only $ ightarrow$ like: cluster -create
 cfgassist
 This is the VIOS version of smitty
 Menu driven interface for CLI
 Fully covers SSP functions
 Graphical User Interface
 HMC – now (note the don't have any VIOS vSCSI slots in "Any mode"
 SDMC - planned for next major release in 2012
System Director - Future release
 Already has Storage Pools concept and features
 SSP is just another storage pool type
 Then may adds new unique items – like VMControl appliance deploy to SSP disk space or cloning





н	NC			Virtu Use virt servers SSP Dev VIOS/SS	ual Stor and you ice to q SP: diar	prage Mana age managem ur Shared Stor uery. mondvios1-SSF	agemen ent tasks t age Pool (S	t - dian o manage SP) Devic Query	10nd-8233 9 virtual storag es. Select a VI	-E8B-SN100271P le for your VIOS virtual OS virtual server or an
			•	Storage	Details)	1		((
				Disks	al 5	Storage Pools	Volume	al Is	Optical Devices	Channel
Virtua Use virtu servers a SSP Devic	al Storage Mar al storage manage nd your Shared Sto re to query.	nagement - di ment tasks to mar rage Pool (SSP) Di	iamond-8 nage virtual st evices. Select	233-E torage f : a VIOS	8B-SI or your virtual :	V100271P VIOS virtual server or an	es on the ement tage erform. Yo	VIOS par sks for exi ou also ca Action	tition that pro sting virtual d n create a nev	vide storage for client sks, select a virtual v virtual disk.
VIOS/SSF	diamondvioc1 S	ol Vuery					age Pool	^ Assigr	ned Partition	^ Size ^
	Julainonuvios1-53		-				:vg	None		25 GB
Storage D	etails						:vg	None		256 MB
							:vg	None		16 GB
							:vg	None		16 GB
Virtua Disks	Pools	Volumes	Devices		Chann	l Fibre	:vg	None		16 GB
Virtual partitio disk the	disks are logical en ns. To perform man en select the task to ""	tities on the VIOS agement tasks for perform. You also Select Action	partition that r existing virti o can create	t provide ual disks a new vi	e storag ;, select irtual di:	e for client a virtual sk.	/ assignmi	ent	Show shared	storage pool storage
Select	Name ^	Storage Pool ^	Assigned Pa	rtition	^	Size ^				
0	fslv00	clientvg	None			25 GB				
0	loglv00	clientvg	Nope			256 MB				
0	vdisk_diamond5a	atlantic(galaxy) ┥	C		(5)	10 00				
0	vdisk_diamond6a	atlantic(galaxy)	diamond6-AI	X616-SS	P2(3)	16 GB				
0	vdisk_diamond8a	atlantic(galaxy)	diamond8-AI	X7 TL1 b	eta(8)	16 GB				
0	xdiamond4_1lv	clientvg	None			16 GB				
0	xdiamond7_2lv	clientvg	None			16 GB				
0	xdiamond7_4lv	clientvg	None			16 GB				
0	xdiamond8	clientvg	diamond8-AI	X7 TL1 b	eta(8)	16 GB				
Create	e virtual disk Mo	odify assignment	Show sha	ared sto	rage po	ol storage				

