

Agenda	© 2011 IBM 2
Reference sources	
Redbooks	
Movies	
Whitepaper	
VIOS Sizing	
VIOS Media	
VIOS How to Install	
Using VIOS to support Virtual Ethernet, Virtual Disks, Virtual Optical	

Agenda	@ 2011	ІВМ
Redbooks	PowerVM Intro & Config 4th Edition PowerVM Managing & Monitoring PowerVM Best Practices PowerVM Virtual I/O Server Deployment Examples Integrated Virtual Ethernet Adapter Intro PowerVM Live Partition Mobility Hardware Management Console V7 Handbook Integrated Virtualisation Manager (IVM) VIOS User Guide	
Movies	http://tinyurl.com/AIXMovies - 20 movies	
Whitepaper	POWER5 Virtualization: How to set up the IBM Virtual I/O Server How to work with VLANs using the IBM VIOS by Nigel Grifffiths	





Trick 1 – Uncapped, micro partition with VP+1 Use PowerVM to re-use unused VIOS CPU cycles in the application Virtual Machines © 2011 IBM

Trick 2 – Don't worry about the tea bags! Just make sure you have enough

Trick 3 – ROT then monitor

Rule of thumb: for every 16 CPUs – 1 CPU, 2 GB RAM The monitor VIOS use & tune as necessary





















VIOS	3 2 st T	asks Network	© 2011 IBM 16
padmin\$ lso	dev grep e	nt	
clientvg	Defined	Volume group	
ent0	Available	2-Port 10/100/1000 Base-TX	
		PCI-Express Adapter (14104003)	
ent1	Available	2-Port 10/100/1000 Base-TX	
		PCI-Express Adapter (14104003)	
ent2	Available	Virtual I/O Ethernet Adapter (I-lan)	
ent3	Available	Virtual I/O Ethernet Adapter (I-lan)	
ent4	Available	Virtual I/O Ethernet Adapter (I-lan)	
ent5	Available	Virtual I/O Ethernet Adapter (I-lan)	
ent6	Available	Shared Ethernet Adapter	
ent/	Available	Shared Ethernet Adapter	
padmin\$ Is U9117.MM/ U9117.MM/ U9117.MM/ U9117.MM/	dev -slots A.101CD8F A.101CD8F A.101CD8F A.101CD8F A.101CD8F	grep ent -V2-C11 Virtual I/O Slot ent2 -V2-C12 Virtual I/O Slot ent3 -V2-C21 Virtual I/O Slot ent4 -V2-C22 Virtual I/O Slot ent5	













١	/105	6 3rc	d ⁻	Tasl	ks D	isks			IBN © 2011 IBM 23
General	Processors	Memory	I/O	Virtual Adapters	Power Controlling	Settings	НСА	Logical Host Ethernet Adapters (LHEA)	ient LPARs
Actions	•								irtual SCSI
Virtual re virtual ad	sources allow	for the shar are listed h	ring of elow.	physical hard	lware betwee	n logical par	titions	. The current	Adapter ID
WARNING not config	G: One or more gured in share	e of the logic d mode.	al por	t definitions r - Select Action	eference a sh	ared adapte	er that	is missing or	Select Action Status Default Profile, Last Activated + other CD
Select T	ype ^ A	dapter ID	^ Ser	ver/Client Pa	artition ^ Pa	rtner Adapt	er ^ F	Required ^	TAR Sally Slot4
E	thernet <u>1</u>	1	N/A		N//	4	Y	'es	
	thernet <u>1</u>	2	N/A		N//	A	Y	'es	······
	thernet 2	1	N/A		N//	<u>م</u>	Y	'es	(Γ) alot 4
	orver SCSI 1	2	d ard	(blue(2)	2	7	, Y	res (oc	(5) SIO[4]
	erver SCSI 1	<u> </u>	(4)	(Dide(3)	4			es /oc	
	erver SCSL 1	5	(5)		4		Y	'es	
□ s	erver SCSI 1	6	Any	Partition	An	v Partition S	lot Y	′es	and all a second
5	erver SCSI 1	7	(7)		4	,	Ŷ	'es	ny siot=any
S S	erver SCSI 1	8	(8)		4		Y	'es	
🗆 s	ierver SCSI 1	9	(9)		4		Ŷ	'es	
<u> </u>	erver Serial 🗕		Any	Partition	An	y Partition S	lot Y	'es	
L s	erver Serial <u>1</u>		Any	Partition	An	y Partition S	lot Y	'es	
		Total: 1	L3 I	Filtered: :	L3 Select	ted: 0			
									-







