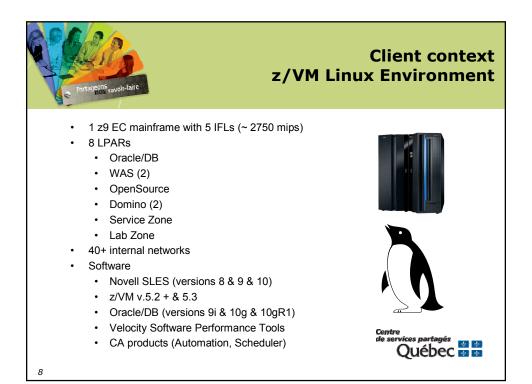
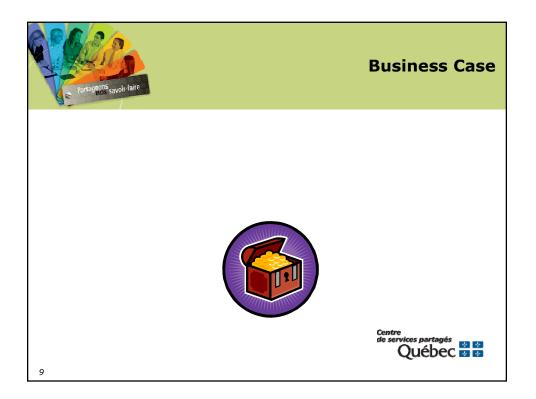
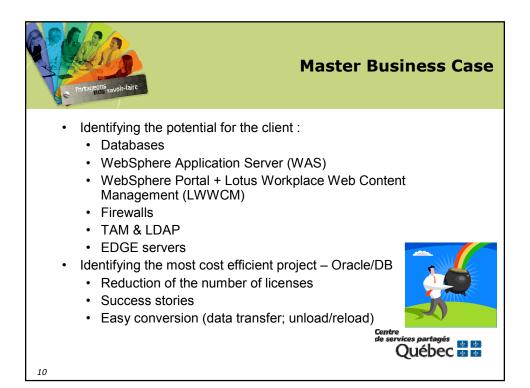
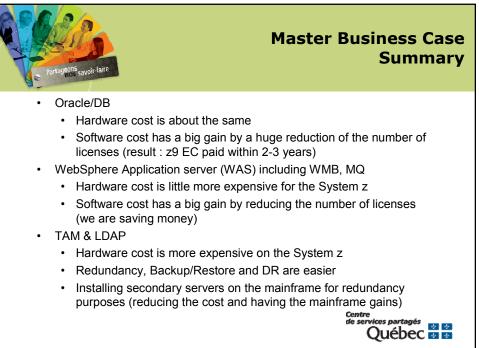


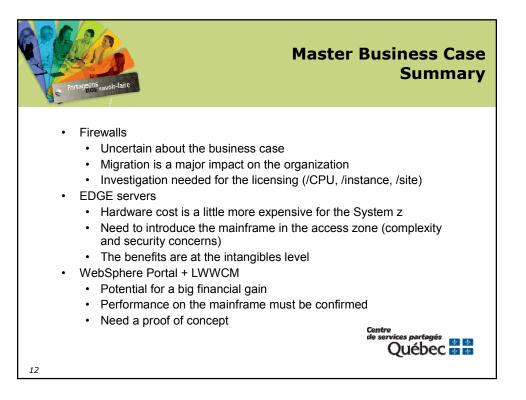
Par	tageons savoir-faire		т	imel	ine of			cont ct or				
	· · · · ·	18 months in preparation				18 months in product	ion					
2 months	4 months	4 months	6 months	2 months	± 2 weeks Sub-p	rojects						
Early 2004				Fall 2005								
Vision	PoC	Master Business case	Main Architecture	Acquisition z9 EC	Mini Business cases for each sub-project	ORACLE	WAS	Domino	OpenSource			
Key Words :	Portability Stability of the solution	Possibilities :	z/VM Linux Golden Images	Sizing Pricing	Review inventory Finalize the scope	Architecture	Architecture	Architecture	Architecture			
Vitualization Security Otert totation Rapid Deployement Sobility Centralized Management Centralized Management	Security of the environment	ORACLE WAS WPS (7) LYWVCM (7) WES site EDCE Servers TAMLDAP Firendis (\$\$\$\$)	Citore Security Network	Licencing		Oracle 91 Oracle 10g Oracle 10g R1	WAS 6.02 WAS 6.1	Damino 7	Apache Typo3 Jboss & JBPM PHP Perl Python Jaa Tomcat MySQL Postpre SQL Vstpd OpenSSL OpenIDAP CamW Text			
7							centre de services partagés Québec 🔯 🔯					

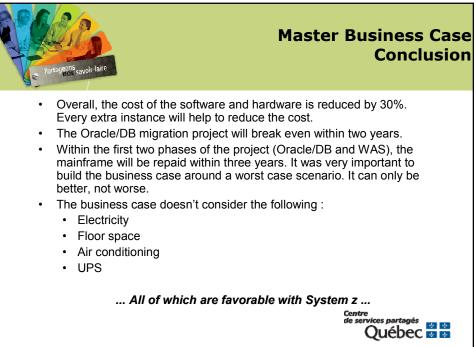




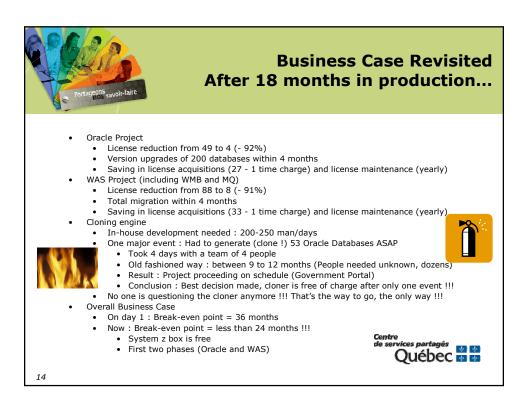


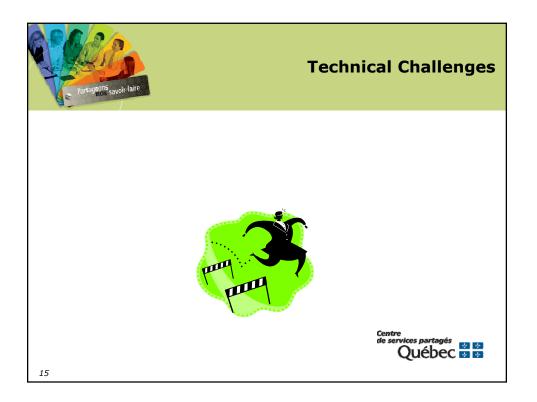


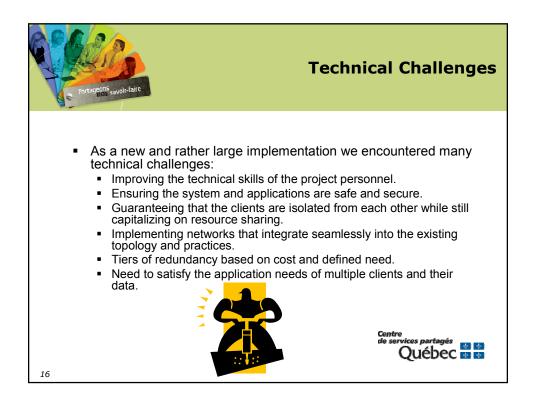




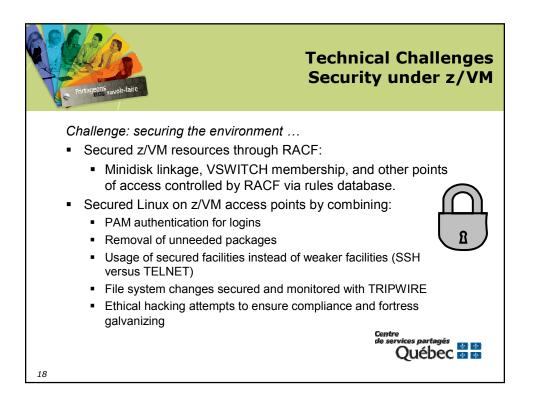


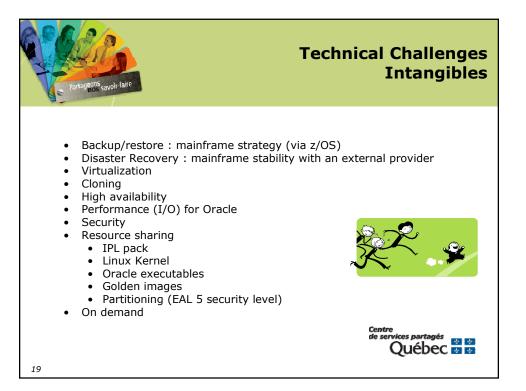


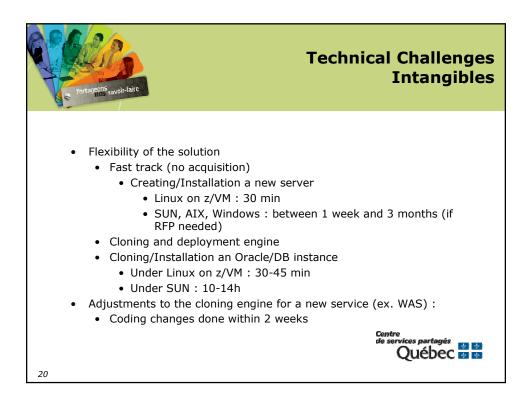




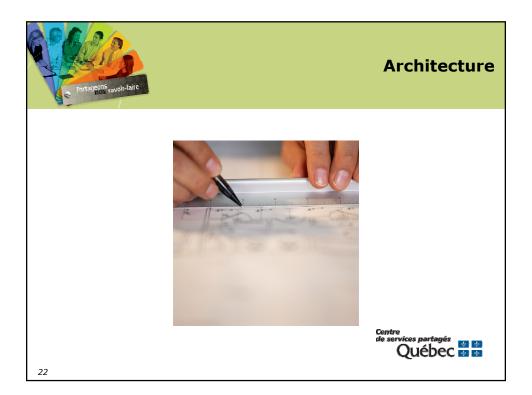


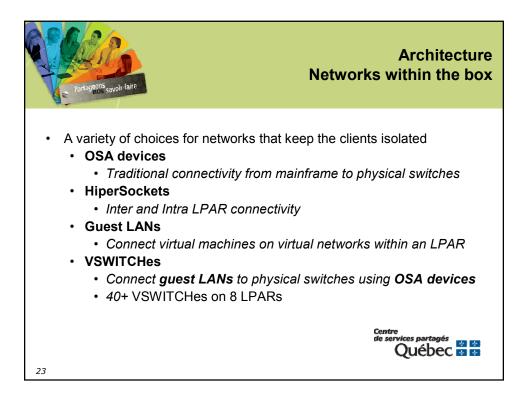


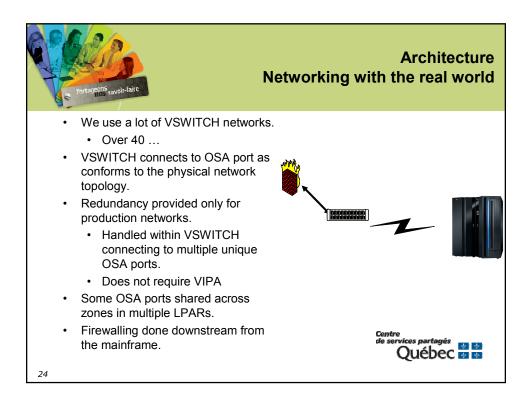


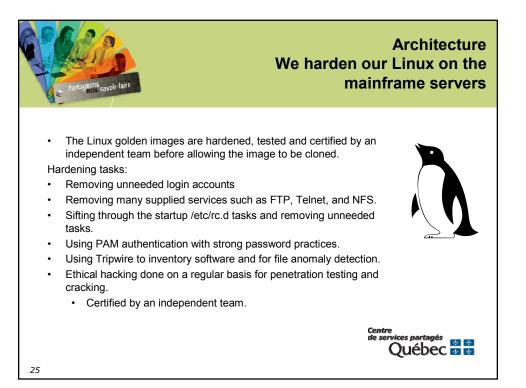


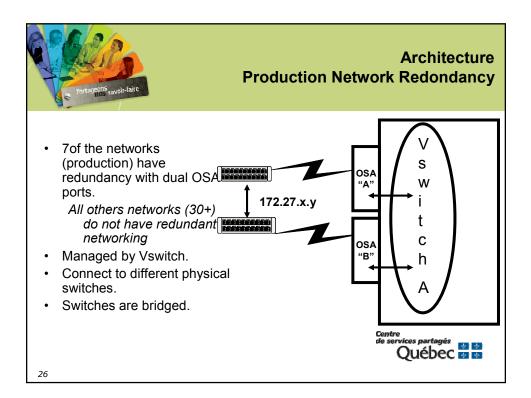
Partageons savoir faire	Technical Challenges Competing technologies								
		z/VM		Distributed platform		_			
Category	Weight	Description	Level	Description	Level	Delta			
Disciplin-ability (production mentality)	50	Internet Barrent of the sulface	50	Formal	20	30			
Change management Start-up disk	5	Formal & part of the culture Unique IPL pack (like z/OS)	5	Formal Starting a project for a cloning engine	2	+			
Performance hardware	65		56		26	30			
Partitions	3	Partitions take only what they need	5	Partitions take everything available	3				
Processor(s) I/O	3	(determine by the weight) Dedicated processors	5	(determine by the weight) Same processors (CPU & I/O)	1	+			
		A partition can use unused cycles from		Partition will always use all cycles available		-			
Flexibility (ad-hoc demand)	3	other partitions	4	(determine by the weight)	2				
On demand Experience (virtualization)	2	Annual cost for the service	3	Must purchase additional processors	2				
Experience (virtualization) Performance software	75	Close to 20 years	61	2 years +	26	35			
Virtual machines	4	Virtual machines only use what they need	5	See Partition	3				
Control	4	Weight & priority	4	Weight only	2				
Flexibility (ad-hoc demand)	4	A virtual machine can use unused cycles	4	N/A					
Utilisation reporting	3	from other virtual machines	3	In-house tool	2	+			
Deployment (speed)	50		44		21	23			
New environment creation	4	Define a new virtual machine & use the cloner	5	Define a partition & install the operating system	з				
Network	3	New definitions VLAN (VM) & firewalls	4	Network cards, cables, ports in router if new server and firewall	1	1			
VO	3	Shared FICON/ESCON ports	4	HBA + ports in director, cables if new server	2				
Easiness to manage software keys	10	1	8	1	4	4			
	2	Calculated with the number of IFLs per partition	4	Add all processors on which the software is running, must consider virtual vs physical	2				
Disaster recovery	130		117		35	82			
Exercises	4	Remote installation	5	Staff on site (New Jersey)	2	1			
Operating system recovery	5	Disk recovery (from backup)	5	Installation of the operating system	1				
Testing results	4	Complete & successful (the process is identical as z/OS)	4	Not enough time to complete the tests Must have compatible hardware (might need	1				
Hardware isolation	4	z/VM is independent of the hardware Well known & integrated process (from	4	the same identical hardware)	1				
Backups	5	well known & integrated process (from mainframe expertise)	4	Limited trust in the process	2	1			
Inventory	4	One unique inventory	5	Multiple inventories	1				
Security Certification	25 3	LPAR EAL5A	23	Partition EAL 4+	16 4	7			
Cryptography	2	CPACF + Crypto cards	4	Software	2	+			
RAS Redundancy	55	Backup processors always available	48	Backup processors only available if on	22	26			
				demand package available (\$)					
Operating system Disks	4	100% of planned time Partitions 9980 & FICON	4	AIX, Windows, SAN HDS 9585 & FCP and disk towers	2	-			
Total	460	p antiona asoo u ricoli	407 88,48%	priod about or and disk towers	170 36,96%	237			
21				centre de services partagés Québec	4 4	\$ \$			

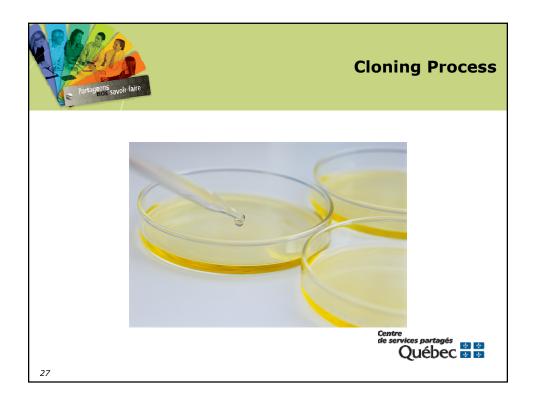


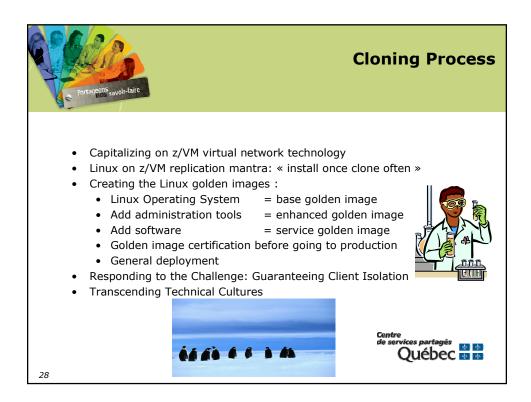


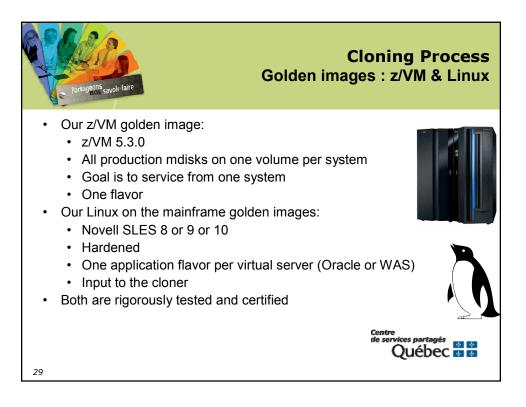


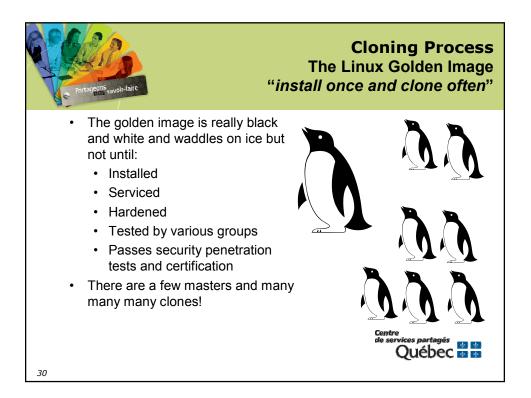


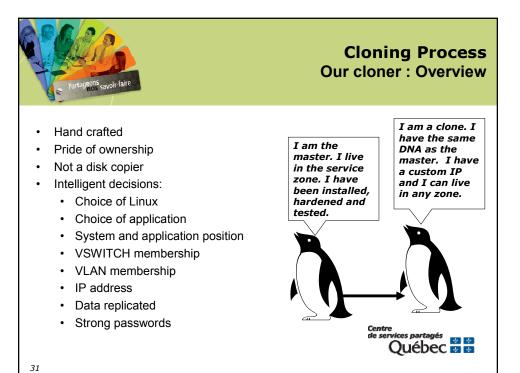


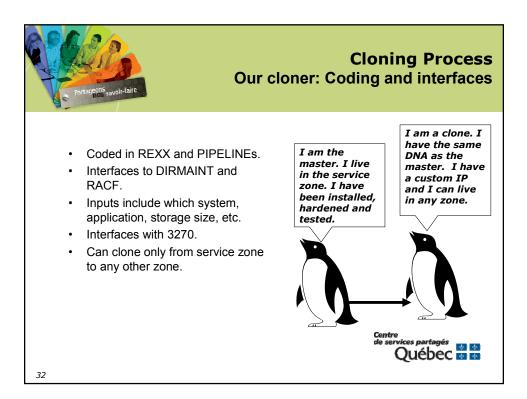


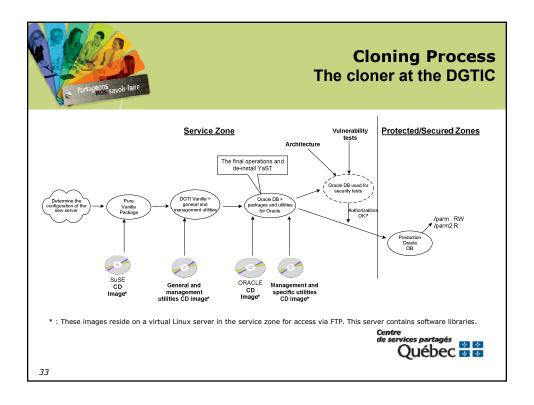


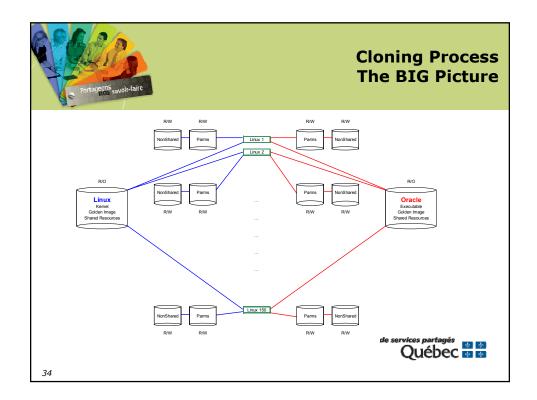


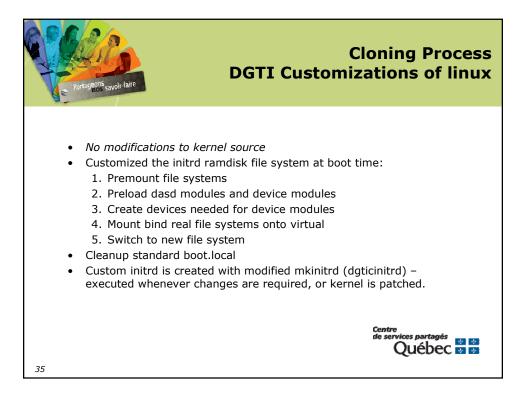




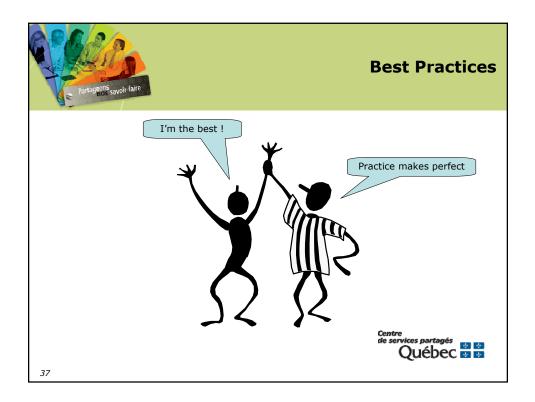


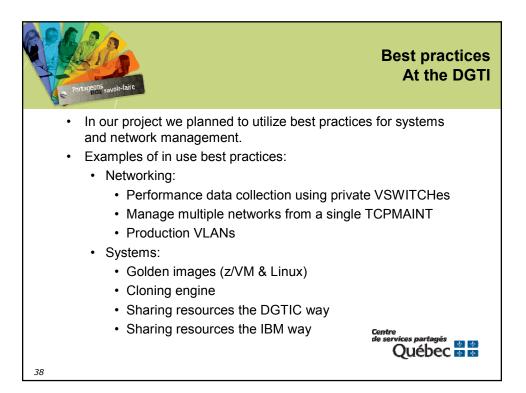


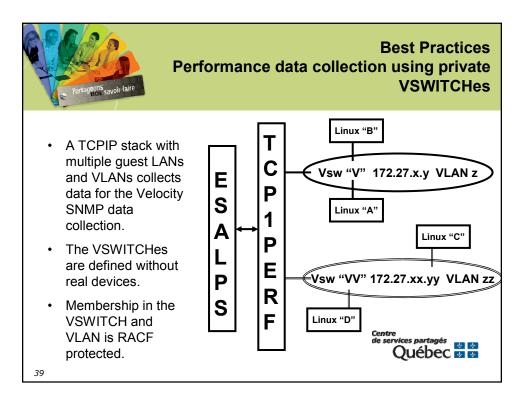


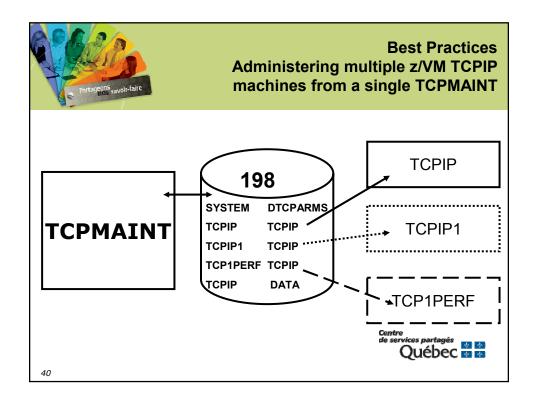


Parta	Deons sevoir-faire		To s	Cloning Proces share or not to shar
Mini-disk	Description	Mount Point	Access	
0150	Start up	/boot	R/O	1)
0152	Main shared disk /etc /bin /sbin /usr /lib /software	/SHARED	R/O	90%
0154	Installation directory for optional software	/opt	R/O	
0155	Scripts and binaries for DGTIC needs	/DGI	R/O	
0151	Root	1	R/W	
0153	Configuration parms for the Linux server (host name, IP address, routes, paasword files, config files for LVM & SSH)	/parm	R/W	10%
0156	Data directory /users /var /deposit_axway /srv	/DATA	R/W	
0157	Data for tripwire	/tripwire	R/W	Centre de services partagés









	Partageons	avoir-faire		Hiper	Sockets			e sharin he z9-E	-	
	HiperSockets 192.168.150.x Chpid "BF"									
	Service	Test	Domino 1	Domino 2	ORACLE	Open Source	WAS MBQ	WAS MBQ		
 Internal network only. Used for administrative purposes. Applications include the cloner, telnet, RSCS (file transfer and message queues). Centre de services partagés Secure memory-to-memory transfer. 										

