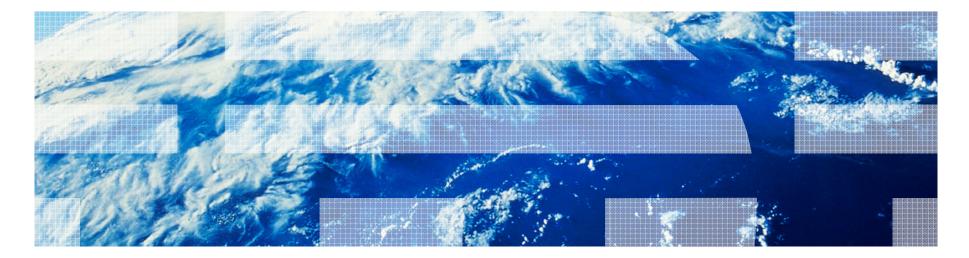


# z/VM LGR exploitation using GDPS Introduction and Demo

Joachim Weber - System Automation Development



Let's build a smarter planet.





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# Agenda

- Introduction
  - GDPS and xDR, z/VM
  - z/VM Single System Image (SSI)
  - z/VM Live Guest Relocation (LGR)
- GDPS Integrated Scenarios with LGR
  - LPAR Maintenance
  - Site Maintenance
- More Details
  - How LGR is controlled by GDPS
- Demo



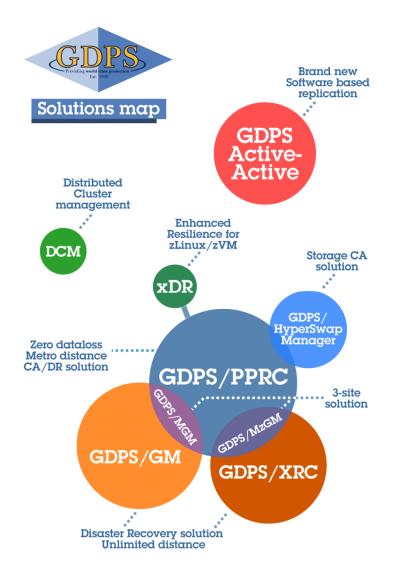
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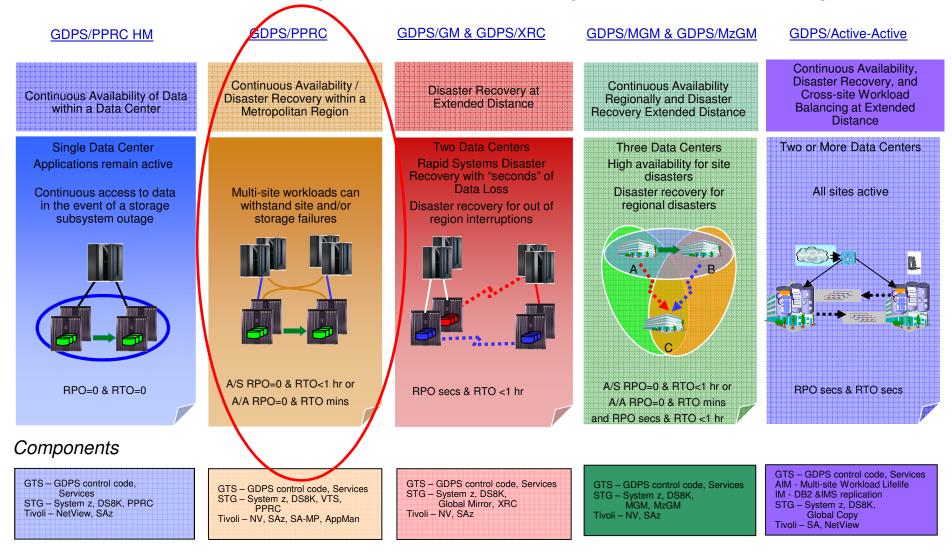
### What is GDPS?

- Integrated / Automated Disaster Recovery solution
- Manages application and data availability in and across sites
  - Monitors systems, disk & tape subsystems
  - Manages planned and unplanned activities
    - System/disk maintenance/failure
    - Site maintenance/failure
- Builds on proven high availability technologies
  - Clustering
  - Remote copy (disk and tape)
  - Automation
- Easy to use interface
  - Intuitive panel interface
  - Simple scripting





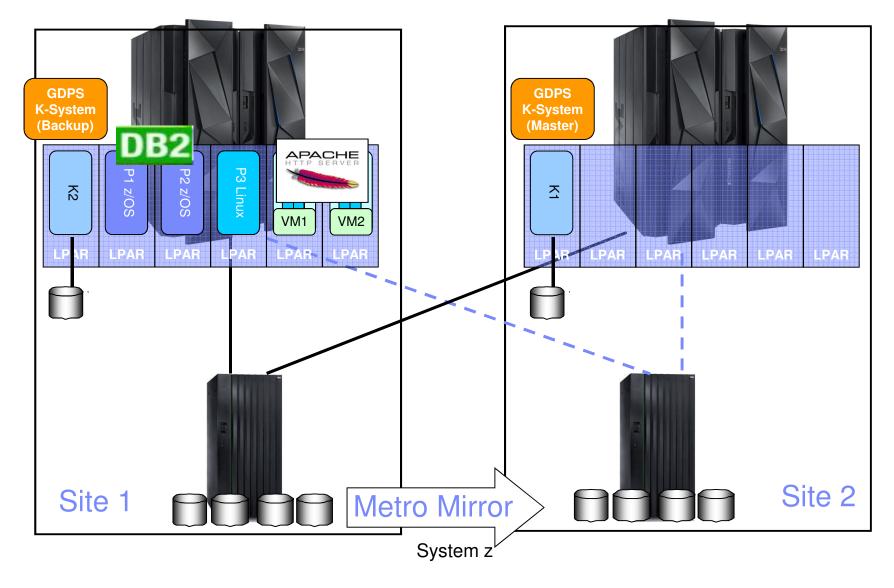
There are multiple GDPS service products under the GDPS solution umbrella to meet various customer requirements for Availability and Disaster Recovery.



RPO – recovery point objective RTO – recovery time objective Synch replication

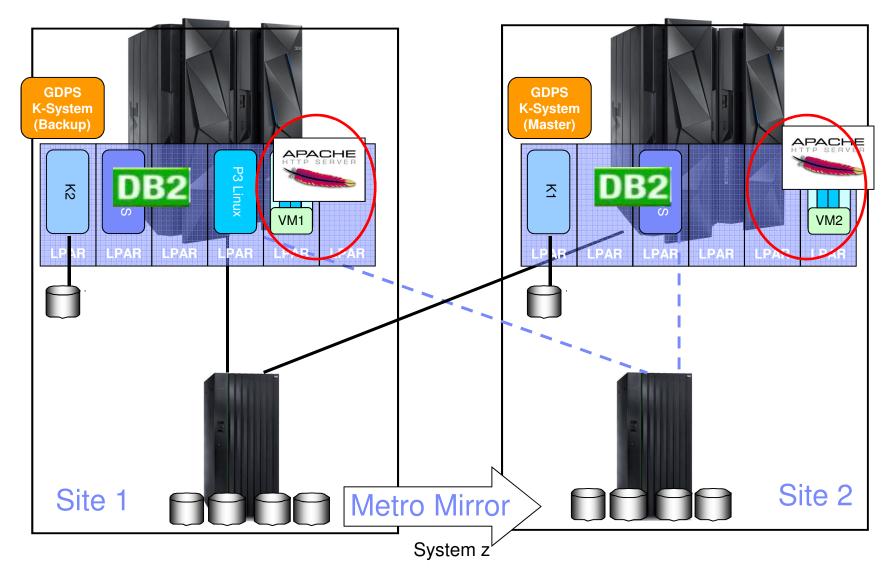


### **GDPS Topology – Simplified**





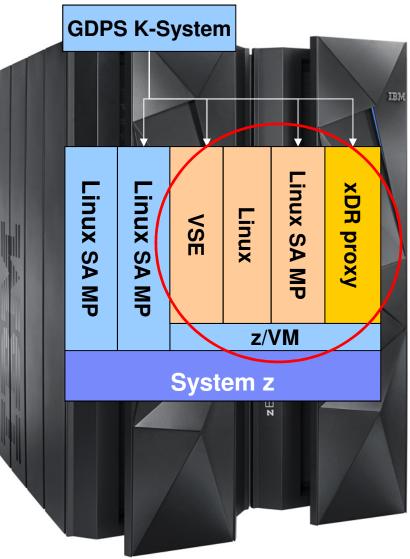
# **GDPS** Topology





### xDR - Overview

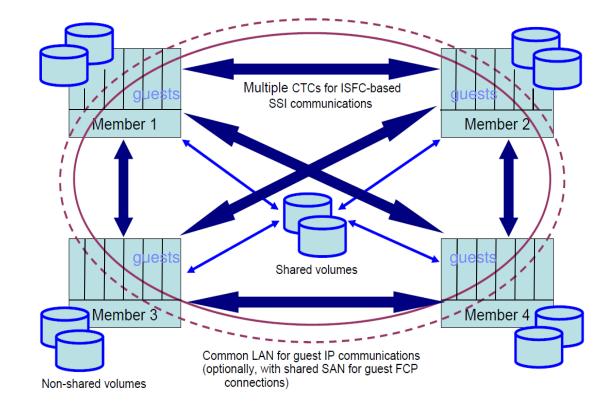
- xDR provides the same DR capabilities for Linux running on System z as for z/OS
- Highly automated tasks reduce risk for operating errors
- Disaster Detection on Linux e.g. disk failure, system failure
- Clustering and High availability provides high availability in case of system, application or network failure
- Single point of control from GDPS
- A complete cross-platform disaster recovery task can be done by operator – no need for availability of all experts for e.g. storage team, hardware team, OS team, application team etc.
- Supported Platforms
  - Linux running as guest on z/VM (xDR on z/VM)
  - Linux running native in LPAR (xDR native)
    - Only reduced set of Linux Distributions are supported





### z/VM SSI - What is z/VM Single System Image?

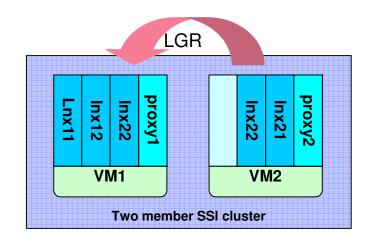
- Share and coordinate resources within an SSI structure
  - Systems Management
  - Communications
  - Disk Management
  - Device Mapping
  - VM Definition
     Management
  - Installation
  - Service Functions
  - Live Guest Relocation





### z/VM Live Guest Relocation – What is LGR?

- Relocate virtual server from one member system to any other
- Virtual servers stay operational
- Purpose
  - Maintenance of hardware or software
  - Fixing performance problems
  - Workload balancing
  - ➔ no outage





# Agenda

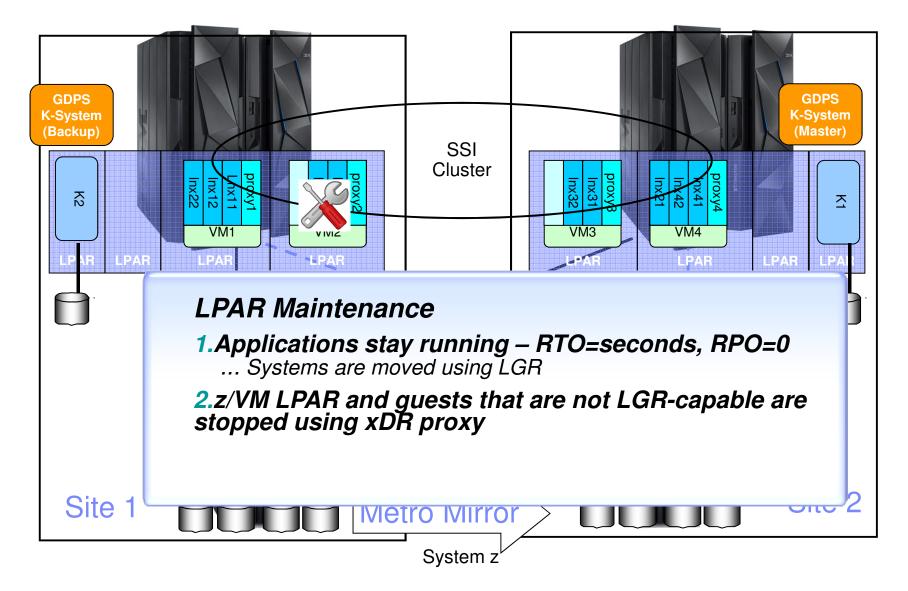
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#### GDPS – Integrated Scenarios with LGR

- LPAR Maintenance
- Site Maintenance
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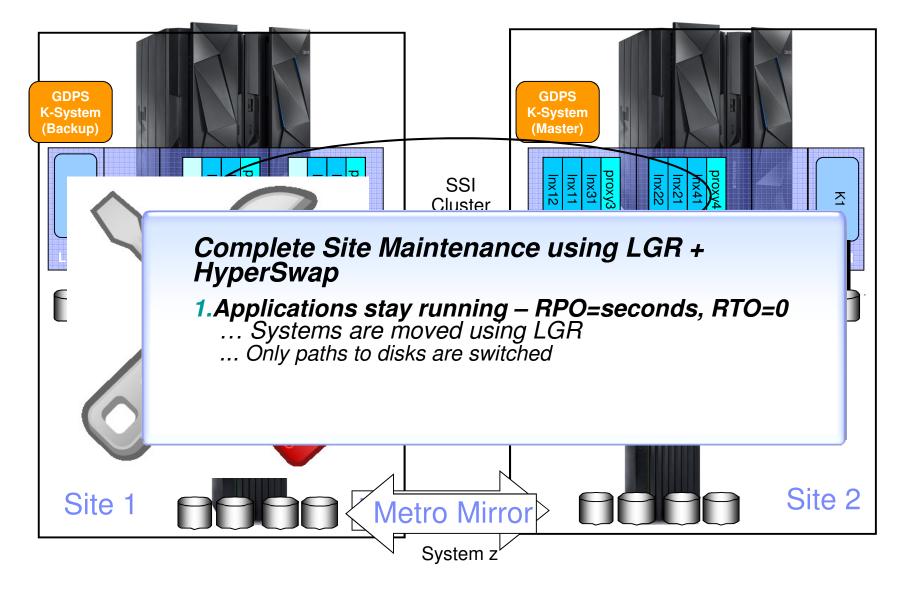


#### Scenario 1: z/VM or LPAR Maintenance - Continuous Availability of z/VM Guests





### Scenario 2: Site Maintenance - Continuous Availability of z/VM Guests



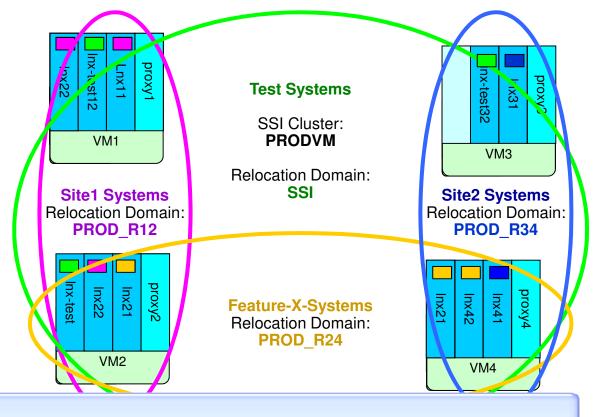


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### What is a Relocation Domain?

- Defines set of members among which Linux guests can be relocated
- Purpose
  - Group type of workload (Test, Development, Production)
  - Restrict guests to be located on members supporting a feature (e.g. Feature-X)

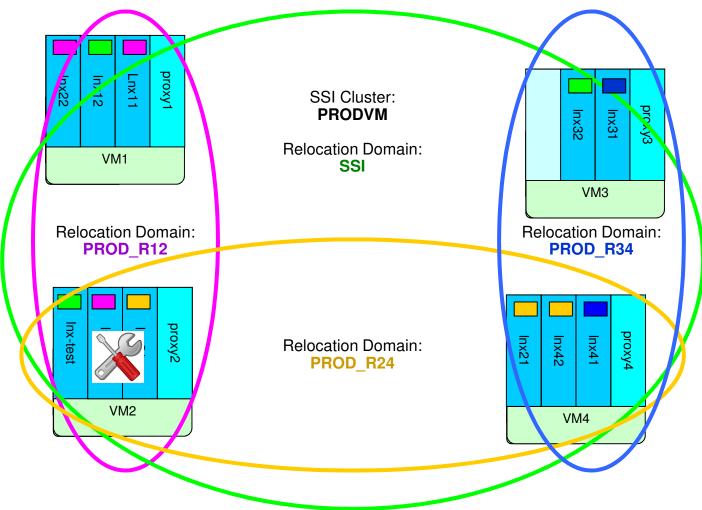


#### Naming Convention:

GDPS only works with Relocation Domains having the same 4-characterprefix as the SSI Name



Scenario: Stop z/VM with implicit move away production guests



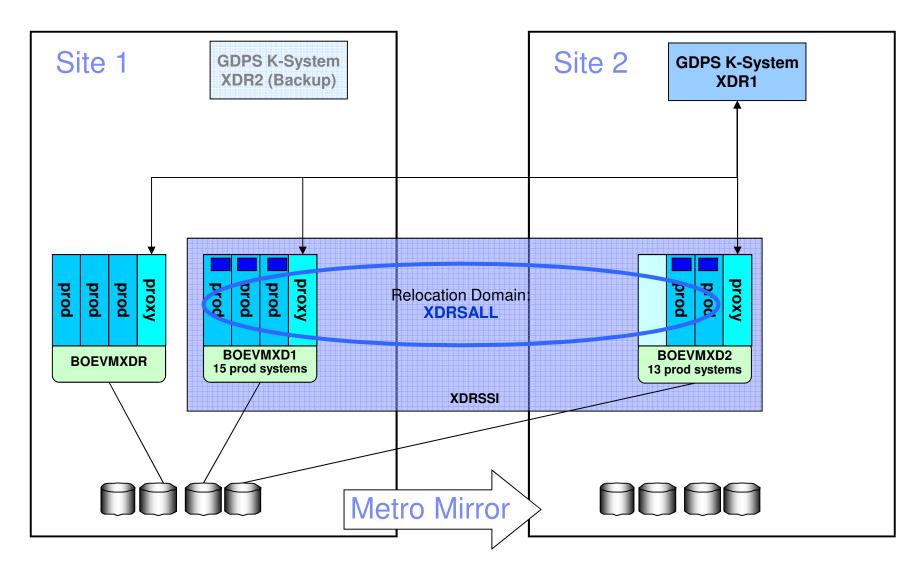


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### Demo





# Scenario 1: Stop a z/VM System in an SSI Cluster

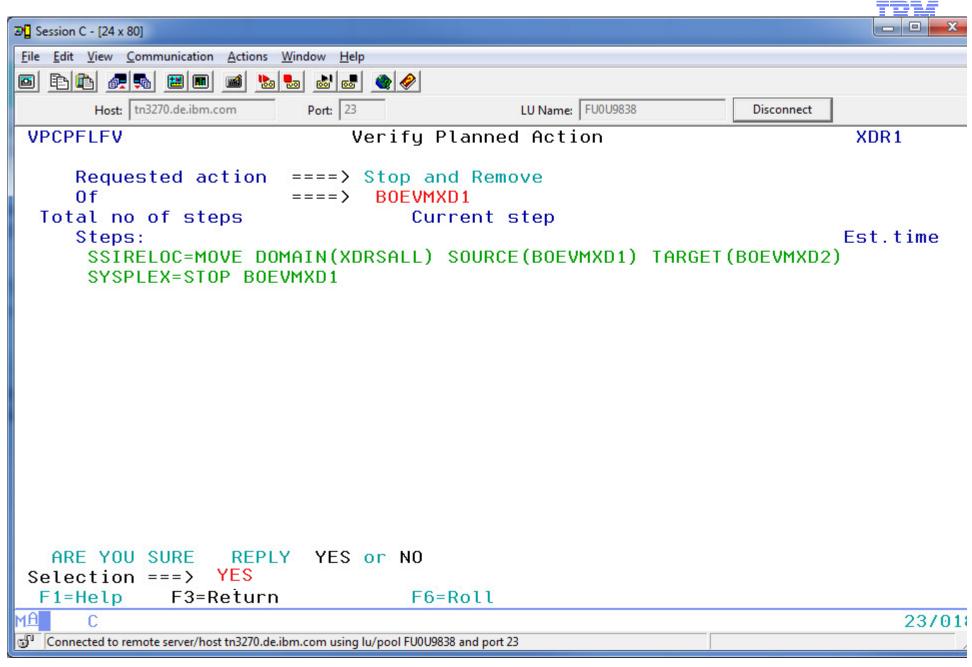
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U Connected to remote server/host thsz/v.de.ibm.com using iu/pool P0009050 and port 25	-		amoto conver/heat to 2270	da ibra com unio a la	v/nool EU010222 and not 2	2		00700
	<u>lo.</u>	Connected to r	emote server/nost th32/0	delibm.com using it	1/ pool Pool9838 and port 2.			

	• X
<u>File Edit View Communication Actions Window H</u> elp	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838 Disconnect	
VPCPPNLP GDPS - Disaster/Recovery System GDPS V3.R	10.M5
System=XDR1IPWFLPrimary Dasd = NOKSITE1SITECurrent Master=XDR1IPWFLPri FB xDR= NOKSITE1Parallel mode=YESHyperSwapFO/FB=DISABLEDYESDebug=ONDCMStatus=1Dasd RemoteCopy	1
3 Standard Actions 4 DCM Actions	
6 Planned Actions 7 Sysplex Resource Management 8 Debug ON/OFF 9 View/Alter Definitions H Health Checks C Config Management M Run Monitor1/Monitor3	
Selection ===> 3 Licensed Materials – Property of IBM 6942-35B © Copyright IBM Corp. 1998, 2013 All Rights Reserved.	
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과] Session C - [24 x 80]						_					- 0 ×
<u>File Edit View Com</u>	munication	Actions	Window	<u>H</u> elp							
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Host: tn32				23		L	U Name: FU0U9838	8	Disc	onnect	
VPCPSTD1			S	tandard		s	1000 000 000 000		And the second second	XDI	R1
Actions: S	Stop	RR	ReIPL	M odi		Q	QryxDR		SSI Vi	ew	
L	Load	IXR	Reset	A Act	ivate	D	Deactivat	te U	Dump		
Sysname _ SITE1	IND	Statu SITE		IPLtype	LPAR		IPLmode	Auto	L-addr	Loadparm	
_ XDR2	С	ACTIV	/E I	NORMAL	XDR2		SITE1	YN	502D	410000M1	
_ BOEVMXDR		XDR-P	۱ (	NORMAL	XDR		NORMAL	VL.			
V BOEVMXD1	S	XDR-P	2	NORMAL	VMXD1		NORMAL	VL.			
_ SITE2		SITE	2								
_ XDR1	С	MASTE	R I	NORMAL	XDR1		SITE2	YN	5008	410000.1	
_ CF01		MANUA	IL I	NORMAL	XDR1C	FF	SITE2	NN			
_ BOEVMXD2	S	XDR-P	2	NORMAL	VMXD2		NORMAL	VL.			
1 CPC Ops Selection = F1=Help	2 SSI	Ops F3=Re	turn	F6=R01	1			F1	1=Right		
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				and a poor o							

B Session C - [24 x 80]		x
<u>File Edit View Communication Actions Window Help</u>		
Host: tn3270.de.ibm.com Port: 23	LU Name: FU0U9838 Disconnect	
VPCPSTDK xDR VM SSI Management -		
Cluster Actions: D Relocation Domains	5	
Member Actions: S Stop Q QryxDR	Descise OK Dissetsh O	14
Mode	Receive: OK Dispatch: O State	K
Cluster	State	
_ XDRSSI STABLE		
SITE1		
S BOEVMXD1	JOINED	
SITE2		
B0EVMXD2	JOINED	
	0011125	
Cmd ===>		
F1=Help F3=Return F5=Refresh F6=		_
MA C	23/	01
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	TDM
과 Session C - [24 x 80]	
<u>File Edit View Communication Actions Window H</u> elp	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838 Disconne	ect
VPCPSSIVRelocation verification for STOPVMEnter S to select a target system	XDR1
Domain Source Target Users to move	
XDRSALL BOEVMXD1 BOEVMXD2 12	
Verify Requested xDR activity:	
Start Move for Live Guest Relocation by reply Any or Move Any = Move the Guest to any member in the Relocation o Move = Move the Guest relocate to the selected Target No = Continue the STOPVM without Guest Relocation	domain
Cmd ===> ANY	
F1=Help F3=Return F6=Roll F7=Up F8=Down	
MA C	23/01:
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23	





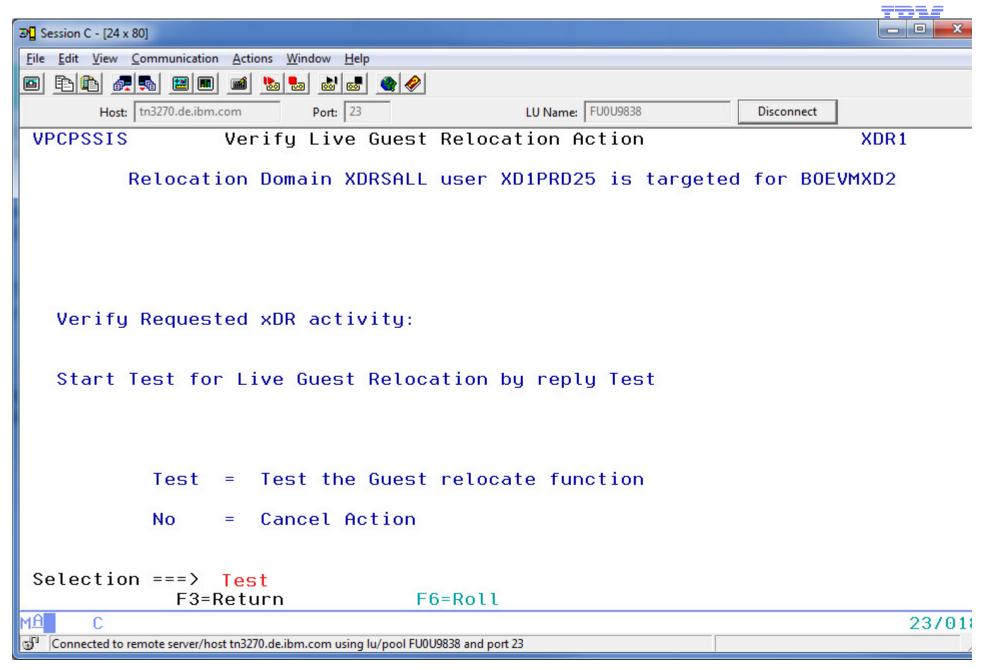
# Scenario 2: View z/VM guests in an SSI cluster and move them

		TDM
과 Session C - [24 x 80]		
<u>File Edit View Communication Actions Window H</u> elp		
Host: tn3270.de.ibm.com Port: 23	LU Name: FU0U9838 Disconn	ect
VPCPSTDK xDR VM SSI Management -		XDR1
Cluster Actions: D Relocation Domain	S	
Member Actions: S Stop Q QryxDR	Pagaina, OK	Dispatab. OK
Mode	State Receive: UK	Dispatch: OK
Cluster	State	
D XDRSSI STABLE		
SITE1		
_ BOEVMXD1	JOINED	
SITE2		
B0EVMXD2	JOINED	
Cmd ===>		
F1=Help F3=Return F5=Refresh F6	=Roll F7=Up F8=Down F9=	All SSI
		23/01:
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 an	d port 23	

Pilession C - [24 x 80]         File Edit Yiew Communication Actions Window Help         Image: Provide State	X
Image: Second	
Host:       In3270.de.ibm.com       Port:       23       LU Name:       FU0U9838       Disconnect         VPCPSSIL       xDR Relocation Domain Status for SSI Cluster XDRSSI       XDR1         Actions:       GR Guest Reloc       TR Test Guest Reloc       Receive:       0K         SITE1       OK       Domain       XDRSALL	
VPCPSSIL       xDR Relocation Domain Status for SSI Cluster XDRSSI       XDR1         Actions: GR Guest Reloc       TR Test Guest Reloc       Receive: OK Dispatch:         STATE       USER       SITE1       OK         Domain       XDRSALL	
Actions: GR Guest Reloc       TR Test Guest Reloc       Receive: OK       Dispatch:         SITE1       OK       USER       Domain       XDRSALL       VDIPRD29       XD1PRD28       XD1PRD27       XD1PRD26       XD1PRD26       XD1PRD27         Userid      XD1PRD14      XD1PRD13      XD1PRD12      XD1PRD11      XD1PRD11         SITE2       OK      XD1PRD14      XD1PRD13      XD1PRD12      XD1PRD11      XD1PRD11	
Receive: OK Dispatch: SITE1 OK Domain XDRSALL BOEVMXD1 JOINED UseridXD1PRD29XD1PRD28XD1PRD27XD1PRD26XD1PRD2 UseridXD1PRD14XD1PRD13XD1PRD12XD1PRD11XD1PRD1 SITE2 OK	
SITE1 OK Domain XDRSALL BOEVMXD1 JOINED UseridXD1PRD29XD1PRD28XD1PRD27XD1PRD26XD1PRD2 UseridXD1PRD14XD1PRD13XD1PRD12XD1PRD11XD1PRD1 SITE2 OK	
DomainXDRSALL BOEVMXD1BOEVMXD1JOINEDUseridXD1PRD29UseridXD1PRD29UseridXD1PRD14XD1PRD13XD1PRD12SITE2OK	0K
UseridXD1PRD29XD1PRD28XD1PRD27XD1PRD26XD1PRD2 UseridXD1PRD14XD1PRD13XD1PRD12XD1PRD11XD1PRD1 SITE2 OK	
SITE2 OK	
BOEVMXD2 JOINED UseridXD2PRD49XD2PRD46XD2PRD32XD2PRD31XD2PRD3 UseridXD2PRD42XD2PRD41XD2PRD40	0
Cmd ===>	
F1=Help F3=Return F5=Refresh F6=Roll F7=Up F8=Down F9=Active Domai	ns
F10=Left F11=Right F12=All Domains	
	/01
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23	

	TDM
D         Session C - [24 x 80]	- 0 X
<u>File Edit View Communication Actions Window H</u> elp	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838 Disconnect	
	KDR1
Actions: GR Guest Reloc TR Test Guest Reloc	
Receive: OK Dispa	atch: OK
SITE1 OK	
Domain XDRSALL	
BOEVMXD1 JOINED	
UseridXD1PRD19XD1PRD18XD1PRD17XD1PRD16XD	IPRD15
Userid	
SITE2 OK	
Domain XDRSALL	
BOEVMXD2 JOINED	
UseridXD2PRD48XD2PRD47XD2PRD45XD2PRD44XD2 Userid	2PRD43
oser iu	
Right panel shown	
Cmd ===>	
F1=Help F3=Return F5=Refresh F6=Roll F7=Up F8=Down F9=Active	Domains
F10=Left F11=Right F12=All Domains	
MA C	22/01
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23	

	TDM
B         Session C - [24 x 80]	
File Edit View Communication Actions Window Help	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838 Disconnect	
	XDR1
Actions: GR Guest Reloc TR Test Guest Reloc	
Receive: OK Disp STATE USER SITE1 OK	atch: OK
Domain XDRSALL BOEVMXD1 JOINED	
UseridXD1PRD29XD1PRD28XD1PRD27XD1PRD26 TRXD UseridXD1PRD14XD1PRD13XD1PRD12XD1PRD11XD	
SITE2 OK Domain XDRSALL BOEVMXD2 JOINED	
UseridXD2PRD49XD2PRD46XD2PRD32XD2PRD31XD UseridXD2PRD42XD2PRD41XD2PRD40	2PRD30
Cmd ===	D
F1=Help F3=Return F5=Refresh F6=Roll F7=Up F8=Down F9=Active F10=Left F11=Right F12=All Domains	Domains
	22/01
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23	22701



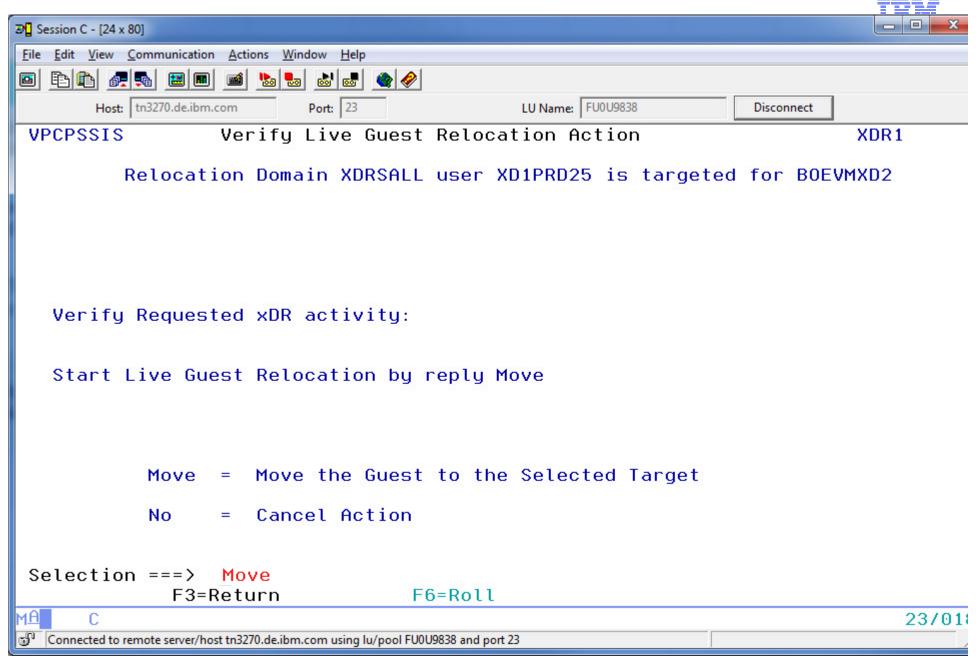
		TDM
과] Session C - [24 x 80]		
<u>File Edit View Communication Actions</u>	<u>W</u> indow <u>H</u> elp	
🖻 🗈 🗗 🚛 🖬 🖬 🐿 🐚		
Host: tn3270.de.ibm.com	Port: 23 LU Name: FU0U9838 Disconnect	
	ation Domain Status for SSI Cluster XDRSSI	XDR1
Actions: GR Guest Rel	oc TR Test Guest Reloc	
STATE	USER Receive: OK E	)ispatch: OK
SITE1 OK		
Domain XDRSALL		
BOEVMXD1 JOINED		
Userid	XD1PRD29XD1PRD28XD1PRD27XD1PRD26 _	
Userid	XD1PRD14XD1PRD13XD1PRD12XD1PRD11 _	_XDIPRDI0
SITE2 OK		
Domain XDRSALL		
BOEVMXD2 JOINED		
Userid	XD2PRD49XD2PRD46XD2PRD32XD2PRD31 _	_XD2PRD30
Userid	XD2PRD42XD2PRD41XD2PRD40	
Cmd ===> sdf	Test executing, check pf5 a	and SDE
	F5=Refresh F6=Roll F7=Up F8=Down F9=Acti	
F10=Left F11=Right		ee bollarib
MA C		22/01
Connected to remote server/host tn3270.de.i	bm.com using lu/pool FU0U9838 and port 23	

3 Session C - [32 x 80]						
<u>File Edit View C</u>	ommunication <u>A</u> cti	ons <u>W</u> indow <u>H</u> elp				
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Host:	tn3270.de.ibm.com	Port: 23	LU Name: FU	JOU9838	Disconnect	
SDF - XDR	1GDPS	GDPS Disaster	r/Recovery Readin	ness	02/09/15	16:28:04
Site 1			Site 2			
Automatio		RemoteCopy	Automat		RemoteCopy	
	1/6(6)		10(11)	1/6(6)		1/10(11)
XDR2H		XDR2SCSI1	XDR1H		XDR1SCSI1	
XDR2CPC		XDR2	XDR1IPL		XDR1	
XDR2CPC		XDR2	XDR1AOM		XDR1	
XDR2IPL		XDR2	XDR1INI		XDR1	
XDR2INI		XDR2L	XDR1INI		XDR1	
XDR2S		XDR2L	XDR1S		XDR1L	
		XDR2D			XDR1D	
		XDR2D			XDR1D	
		XDR2D			XDR1D	
		XDR2D			XDR1D	4 10 (0
Time	Text		- Trace Entries			1/2(2
16:28:02		MXD1 TEST RELO	CATION SCRIPT S	FARTED		
16:28:03	XDR XDRQF	RELO ACTION IN	NITIALIZED (1) TH	RANSACTION		
16:28:05	XDR XDRGF	RELO ACTION IN	NITIALIZED (1) TH	RANSACTION		
16:28:06	XDR TESTI	ING THE RELOCA	ATION OF USERID X	KD1PRD25 TO	MEMBER BOEV	/MXD2 SUC
16:28:06	XDR COMM	AND RELOCATION	N TEST INITIALIZE	ED FOR USER	ID XD1PRD25	
16:28:08	XDR XDRGF	RELO COMMAND F	RETURN CODE: 0			
16:28:09	XDR XDRGF	RELO XDRSALL E	BOEVMXD1 IN SITE	1 ENDED		
16:28:09	XDR BOEVN	1XD1 TEST RELO	OCATION SCRIPT E	NDED		
===>			6 D 11 0 0			1 10 7
1=Help 2=Detail 3=Return 6=Roll 9=Bottom 10=Previous 11=Next 12=Top						
			21=DTRACE	22=DDASD 2	3=DAUT	
M <u>A</u> C						30/00
🕤 Connected to rer	note server/host tn32	70.de.ibm.com using lu/pool	FU0U9838 and port 23			
34					© 2014	IBM Corporation



```
- 0 X
P Inxxdr25.boeblingen.de.ibm.com - PuTTY
login as: root
Using keyboard-interactive authentication.
Password:
Last login: Fri Dec 19 09:49:10 2014 from sig-9-79-70-36.de.ibm.com
lnxxdr25:~ # cat /proc/sysinfo |grep Name
LPAR Name:
                        VMXD1
VM00 Name:
                       XD1PRD25
lnxxdr25:~ #
```

		TDM
B Session C - [24 x 80]		
File Edit View Communication Actions	<u>W</u> indow <u>H</u> elp	
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Host: tn3270.de.ibm.com	Port: 23 LU Name: FU0U9838	Disconnect
VPCPSSIL xDR Reloc	ation Domain Status for SSI Cluster	XDRSSI XDR1
Actions: GR Guest Rel	oc TR Test Guest Reloc	
STATE	USER	ive: OK Dispatch: OK
SITE1 OK		
Domain XDRSALL		
BOEVMXD1 JOINED		
Userid	XD1PRD29XD1PRD28XD1PRD27	
Userid	XD1PRD14XD1PRD13XD1PRD12	XD1PRD11XD1PRD10
SITE2 OK		
Domain XDRSALL		
BOEVMXD2 JOINED		
Userid	XD2PRD49XD2PRD46XD2PRD32	XD2PRD31XD2PRD30
Userid	XD2PRD42XD2PRD41XD2PRD40	
Cmd ===>		
	F5=Refresh F6=Roll F7=Up F8=Dow F12=All Domains	n F9=Hctive Domains
F10=Left F11=Right		00106
Connected to remote server/host tn3270.de	ibm com using lu/pool ELI019838 and port 23	08/06
Connected to remote server/nost ths2/0.de	ionicom using iu/poor rovososo and port 25	



		TDM
과] Session C - [24 x 80]		
File Edit View Communication Actions	<u>W</u> indow <u>H</u> elp	
• • • • • • • • • • • •		
Host: tn3270.de.ibm.com	Port: 23 LU Name: FU0U9838 Disconnect	
	ation Domain Status for SSI Cluster XDRSSI	XDR1
Actions: GR Guest Relo	oc TR Test Guest Reloc	
CTATE	Receive: OK Di	spatch: OK
SITE1 OK	USER	
Domain XDRSALL		
BOEVMXD1 JOINED		
Userid	XD1PRD29XD1PRD28XD1PRD27XD1PRD26	XD1PRD25
Userid	XD1PRD14XD1PRD13XD1PRD12XD1PRD11	XD1PRD10
SITE2 OK Domain XDRSALL		
BOEVMXD2 JOINED		
Userid	XD2PRD49XD2PRD46XD2PRD32XD2PRD31	XD2PRD30
Userid	XD2PRD42XD2PRD41XD2PRD40	
Cmd ===> sdf	Move executing, check pf5 an	d SDF
	F5=Refresh F6=Roll F7=Up F8=Down F9=Activ	
F10=Left F11=Right	F12=All Domains	
MA C		22/01
Connected to remote server/host tn3270.de.it	bm.com using lu/pool FU0U9838 and port 23	

D Session C - [32 x 80]				
<u>File Edit View Communication Actions</u>	: <u>W</u> indow <u>H</u> elp			
o <u>ra a a a a a a</u>	s 😖 💩 📾 🤙 🤣			
Host: tn3270.de.ibm.com	Port: 23	LU Name: FU0U9838	Disconnect	
SDF - XDR1GDPS G	DPS Disaster/Recove	ry Readiness	02/09/15 16:38:53	
Site 1		Site 2		
	emoteCopy	Automation	RemoteCopy	
1/6(6)	1/10(11)	1/6(6)	1/10(11)	
	DR2SCSI1	XDR1H	XDR1SCSI1	
	DR2	XDR1IPL	XDR1 XDR1	
	DR2 DR2	XDR1AOM XDR1INI	XDR1 XDR1	
	DR2L	XDR1INI XDR1INI	XDR1	
	DR2L	XDR1S	XDR1L	
	DR2D	ADRIG	XDR1D	
	DR2D		XDR1D	
	DR2D		XDR1D	
	DR2D		XDR1D	
	Trace	Entries	1/8(8	
Time Text			1.0(0	
	D1 MOVE RELOCATION	SCRIPT STARTED		
16:38:14 XDR XDRQRELO ACTION INITIALIZED (1) TRANSACTION				
16:38:16 XDR XDRGRELO ACTION INITIALIZED (1) TRANSACTION				
16:38:17 XDR COMMAND RELOCATION MOVE INITIALIZED FOR USERID XD1PRD25				
16:38:21 XDR RELOCATING USERID XD1PRD25 TO MEMBER BOEVMXD2 FINISHED SUCCESSFUL				
16:38:23 XDR XDRGRE	LO COMMAND RETURN C	ODE: 0		
16:38:23 XDR XDRGRE	LO XDRSALL BOEVMXD1	IN SITE 1 ENDED		
16:38:23 XDR BOEVMX	D1 MOVE RELOCATION	SCRIPT ENDED		
===>				
1=Help 2=Detail 3=Return 6=Roll 9=Bottom 10=Previous 11=Next 12=Top				
	Z	1=DTRACE 22=DDASD 23		
MAC			30/00	
Connected to remote server/host tn3270.d	le.ibm.com using lu/pool FU0U9838 and po	t 23		
39			© 2014 IBM Corporation	

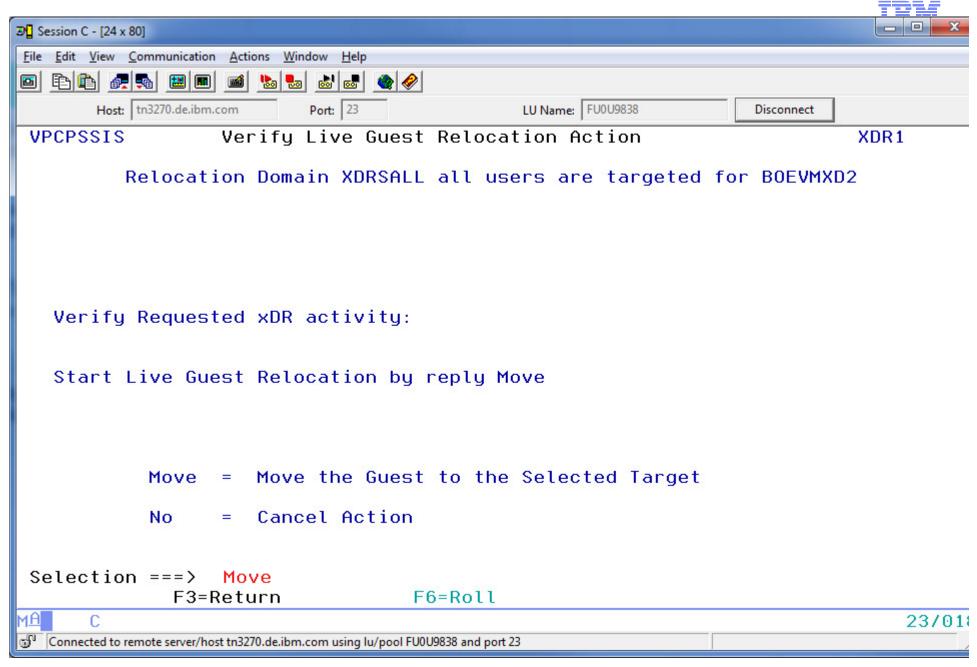
B Session C - [24 x 80]		
File Edit View Communication Actions	Window Help	
Host: tn3270.de.ibm.com		
	ation Domain Status for SSI Cluster XDRSSI XDR	:1
Actions: GR Guest Rel	oc TR Test Guest Reloc	
	Receive: OK Dispato	:h: 0K
	USER	
SITE1 OK Domain XDRSALL		
BOEVMXD1 JOINED		
Userid	XD1PRD29XD1PRD28XD1PRD27XD1PRD26XD1PR	D25
Userid	XD1PRD14XD1PRD13XD1PRD12XD1PRD11XD1PR	
SITE2 OK		
Domain XDRSALL		
BOEVMXD2 JOINED Userid		0020
Userid	XD2PRD49XD2PRD46XD2PRD32XD2PRD31XD2PR XD2PRD42 XD2PRD41 XD2PRD40	1030
036110		
(md)		
$Cmd === \rangle$	F5=Refresh F6=Roll F7=Up F8=Down F9=Active Dom	ainc
F10=Left F11=Right	a Menor Menore a Mary 10	ams
MA C	TTE HEE DOMATHO	22/01
Connected to remote server/host tn3270.de.i	ibm.com using lu/pool FU0U9838 and port 23	22701
	@ 0014 / IDM 0	

		TDM
과 Session C - [24 x 80]		
File Edit View Communication Actions	<u>W</u> indow <u>H</u> elp	
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Host: tn3270.de.ibm.com	Port: 23 LU Name: FU0U9838	Disconnect
	ation Domain Status for SSI Cluster >	(DRSSI XDR1
Actions: GR Guest Rel	oc TR Test Guest Reloc	
07.075		ve: OK Dispatch: OK
SITE1 OK	USER	
SITE1 OK Domain XDRSALL		
BOEVMXD1 JOINED		
Userid	XD1PRD29XD1PRD28XD1PRD27>	XD1PRD26 XD1PRD19
Userid	XD1PRD13 XD1PRD12 XD1PRD11 XD1PRD11	(D1PRD10
SITE2 OK		
Domain XDRSALL BOEVMXD2 JOINED		
Userid	XD1PRD25 XD2PRD49 XD2PRD46 XD2PRD46	
Userid	XD2PRD43XD2PRD42XD2PRD41X	
Cmd ===>		
	F5=Refresh F6=Roll F7=Up F8=Dowr	n F9=Active Domains
F10=Left F11=Right		
MA C		22/01
Connected to remote server/host tn3270.de.	bm.com using lu/pool FU0U9838 and port 23	



📴 Inxxdr25.boeblingen.de.ibm.com - PuTTY
login as: root
Using keyboard-interactive authentication.
Password:
Last login: Fri Dec 19 09:49:10 2014 from sig-9-79-70-36.de.ibm.com
lnxxdr25:~ # cat /proc/sysinfo  grep Name LPAR Name: VMXD1
VM00 Name: XD1PRD25
lnxxdr25:~ # cat /proc/sysinfo  grep Name
LPAR Name: VMXD2
VM00 Name: XD1PRD25
lnxxdr25:~ #

고 Session C - [24 x 80]	
<u>File Edit View Communication Actions</u>	Window Help
Host: tn3270.de.ibm.com	
VPCPSSIL xDR Reloc	cation Domain Status for SSI Cluster XDRSSI XDR1
Actions: GR Guest Rel	Loc TR Test Guest Reloc
	Receive: OK Dispatch: OH
	USER
SITE1 OK	
Domain XDRSALL GRBOEVMXD1 JOINED	
Userid	XD1PRD29 XD1PRD28 XD1PRD27 XD1PRD26 XD1PRD19
Userid	XD1PRD13 XD1PRD12 XD1PRD11 XD1PRD10
SITE2 OK	
Domain XDRSALL	
BOEVMXD2 JOINED	
Userid	XD1PRD25XD2PRD49XD2PRD46XD2PRD32XD2PRD31
Userid	XD2PRD43XD2PRD42XD2PRD41XD2PRD40
Cmd ===>	
	F5=Refresh F6=Roll F7=Up F8=Down F9=Active Domains
F10=Left F11=Right	
MA C	07/00
Connected to remote server/host tn3270.de	.ibm.com using lu/pool FU0U9838 and port 23



	TDM
D         Session C - [24 x 80]	
<u>File Edit View Communication Actions Window H</u> elp	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838 Disconnect	
VPCPSSIL xDR Relocation Domain Status for SSI Cluster XDRSSI	XDR1
Actions: GR Guest Reloc TR Test Guest Reloc	
Receive: OK STATE USER	Dispatch: OK
SITE1 OK	
Domain XDRSALL	
BOEVMXD1 JOINED	
UseridXD1PRD29XD1PRD28XD1PRD27XD1PRD26	
UseridXD1PRD14XD1PRD13XD1PRD12XD1PRD11	XU1PRU10
SITE2 OK	
Domain XDRSALL	
BOEVMXD2 JOINED	
UseridXD2PRD49XD2PRD46XD2PRD32XD2PRD31	XD2PRD30
UseridXD2PRD42XD2PRD41XD2PRD40	
Cmd ===> sdf Move executing, check pf5	and CDE
Cmd ===> sdf Move executing, check pf5 F1=Help F3=Return F5=Refresh F6=Roll F7=Up F8=Down F9=Act	
F10=Left F11=Right F12=All Domains	TAG DOMATHS
MA C	22/01
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23	

							_ 0 <b>_</b> X
3 Session C - [32 x 80							
<u>File Edit View C</u>	ommunication <u>A</u> ctio	ons <u>W</u> indow <u>H</u> elp					
	sa 😐 🔳 🐋	🐚 🐻 💩 🔮					
Host:	tn3270.de.ibm.com	Port: 23		LU Name: FU0U9838	3	Disconnect	
SDF - XDR	1GDPS	GDPS Disast	er/Recove	ry Readiness	6	02/09/15	16:57:40
044- 1				0:1- 0			
Site 1 Automatio		RemoteCopy		Site 2 Automation		RemoteCopy	
Hacomacio			/10(11)	Hatomation	1/6(6)	Remotedopg	1/10(11)
XDR2H		XDR2SCSI1		XDR1H		XDR1SCSI1	
XDR2CPC		XDR2		XDR1IPL		XDR1	
XDR2CPC		XDR2		XDR1A0M		XDR1	
XDR2IPL		XDR2		XDR1INI		XDR1	
XDR2A0M		XDR2L		XDR1INI		XDR1	
XDR2INI		XDR2L		XDR1S		XDR1L	
XDR2S		XDR2D				XDR1D	
		XDR2D				XDR1D	
		XDR2D				XDR1D	
		XDR2D	_			XDR1D	
			Trace	Entries			1/7(7
	Text						WD0
				DOMAIN XDRS		VED TO BUEVM	IXUZ
16:57:06 XDR BOEVMXD <u>1</u> MOVE RELOCATION SCRIPT STARTED 16:57:07 XDR XDRQRELO ACTION INITIALIZED (1) TRANSACTION							
16:57:07 XDR XDRQRELO ACTION INITIALIZED (1) TRANSACTION 16:57:09 XDR XDRGRELA ACTION INITIALIZED (1) TRANSACTION							
16:57:40		RELA COMMAND			BHCITON		
16:57:40		RELA XDRSALL		IN SITE 1 E			
16:57:40				SCRIPT ENDED			
10.07.40	ADR DOLVI	INDI HOVE RE	LOGHTION	JUNIT LINDLE			
===>							
1=Help 2=	Detail 3=R	Return	6=Roll <mark>2</mark>	9=Bottom 1=DTRACE 22=		evious 11=Ne 23=DAUT	ext 12=Top
MA C							19/02
🕤 Connected to rer	note server/host tn327	70.de.ibm.com using lu/po	ol FU0U9838 and po	rt 23			
L							

		TEM
3 Session C - [24 x 80]		
File Edit View Communication Actions	<u>N</u> indow <u>H</u> elp	
🖻 🖻 🗗 🛲 🛤 🖬 ы !		
Host: tn3270.de.ibm.com	Port: 23 LU Name: FU0U9838	Disconnect
	ation Domain Status for SSI Cluster 3	XDRSSI XDR1
Actions: GR Guest Relo	oc TR Test Guest Reloc	
STATE	USER	ive: OK Dispatch: OK
SITE1 OK	USER	
Domain XDRSALL		
BOEVMXD1 JOINED		
Userid	XD1PRD29XD1PRD28XD1PRD27X	
Userid	XD1PRD13XD1PRD12XD1PRD113	XD1PRD10
SITE2 OK		
Domain XDRSALL		
BOEVMXD2 JOINED		
Userid	XD1PRD25XD2PRD49XD2PRD46X	
Userid	XD2PRD43XD2PRD42XD2PRD41X	XD2PRD40
Cmd ===>	E5-Dofroch E6-Doll E7-Up E0-Dow	EQ-Optive Demoise
F10=Left F11=Right	F5=Refresh F6=Roll F7=Up F8=Down F12=All Domains	ry=Hclive Domains
MA C	112-Itt Dollarins	22/01
Connected to remote server/host tn3270.de.ib	om.com using lu/pool FU0U9838 and port 23	22701

		TBM
<b>3</b> Session C - [24 x 80]		
<u>File Edit View Communication Actions</u>	<u>W</u> indow <u>H</u> elp	
o bb ar	😼 💩 🌰 🤌	
Host: tn3270.de.ibm.com	Port: 23 LU Name: FU0U9838	Disconnect
VPCPSSIL xDR Reloc	ation Domain Status for SSI Cluster	XDRSSI XDR1
Actions: GR Guest Rel		
		ive: OK Dispatch: OK
STATE	USER	
SITE1 OK Domain XDRSALL		
BOEVMXD1 JOINED		
Userid		
000114		
SITE2 OK		
Domain XDRSALL		
BOEVMXD2 JOINED		
Userid	XD1PRD10XD1PRD11XD1PRD12	
Userid Userid	XD1PRD26XD1PRD27XD1PRD28 XD2PRD48XD2PRD47XD2PRD45	
USELIG	XUZPRU46XUZPRU47XUZPRU45	AUZPRU44AUZPRU43
Cmd === >		EQ Active Descise
F1=Help F3=Return F10=Left F11=Right	F5=Refresh F6=Roll F7=Up F8=Dow F12=All Domains	IN F9=HCTIVE DOMAINS
MA C		22/01
Connected to remote server/host tn3270.de	ibm com using Ju/pool FLI019838 and port 23	22701
- Connected to remote server/nost th52/0.de	ionicom using iu/poor i ooososo and poit 25	



# Scenario 3: Move guests using GDPS scripts

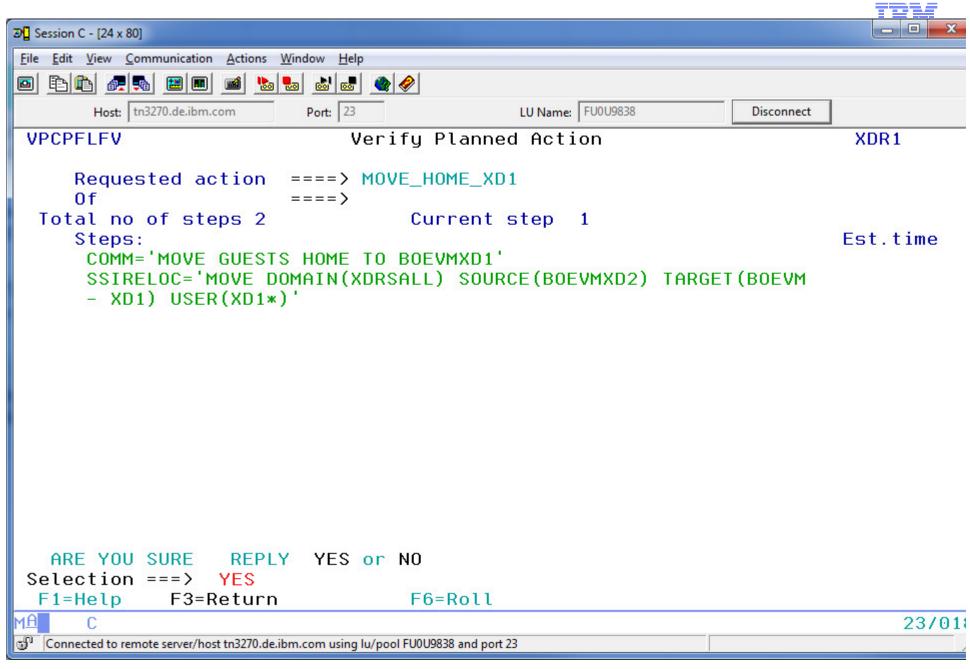
		TDM
<b>3</b> Session C - [24 x 80]		
File Edit View Communication Actions	<u>W</u> indow <u>H</u> elp	
o bb ar	🎭 💩 🛃 🌰 🏈	
Host: tn3270.de.ibm.com	Port:         23         LU Name:         FU0U9838	Disconnect
VPCPSSIL xDR Reloc	ation Domain Status for SSI Cluster	XDRSSI XDR1
Actions: GR Guest Rel		
		eive: OK Dispatch: OK
STATE	USER	
SITE1 OK Domain XDRSALL		
BOEVMXD1 JOINED		
Userid		
000114		
SITE2 OK		
Domain XDRSALL		
BOEVMXD2 JOINED		
Userid	XD1PRD10XD1PRD11XD1PRD12	
Userid Userid	XD1PRD26XD1PRD27XD1PRD28 XD2PRD48XD2PRD47XD2PRD45	
USELIG	AUZPRU46AUZPRU47AUZPRU45	_ADZPRD44ADZPRD43
Cmd ===>		
F1=Help F3=Return		IN F9=HCTIVE Domains
F10=Left F11=Right	F12=All Domains	00.404
C C Connected to remote server/host tn3270.de	ibm com using lu/pool EI I01 10828 and port 22	22/01
Connected to remote server/nost ths2/0.de.	ion.com using iu/poor rovososo and port 25	

	TDM
과 Session C - [24 x 80]	
<u>File Edit View Communication Actions Window H</u> elp	
Host:         tn3270.de.ibm.com         Port:         23         LU Name:         FU0U9838         D	Disconnect
VPCPSTDK xDR VM SSI Management - Single Cluster	XDR1
Cluster Actions: D Relocation Domains	
Member Actions: S Stop Q QryxDR	
	OK Dispatch: OK
Mode State Cluster	
_ XDRSSI STABLE	
SITE1	
_ BOEVMXD1 JOINED	
SITE2	
BOEVMXD2 JOINED	
Cmd ===>	
	F9=All SSI
MA C	23/01
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23	

과] Session C - [24 x 80]								- 0 ×
<u>File Edit View Communicati</u>	on <u>A</u> ctions <u>W</u> indo	w <u>H</u> elp						
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Host: tn3270.de.ib	m.com Po	ort: 23	L	U Name: FU0U9838		Disc	onnect	
VPCPSTD1	:	Standard	Actions				XDF	1
Actions: S Sto	op R ReIP	L Modi	fy Q	QryxDR	V	SSI Vie	ew	
L Loa	ad X Rese	t <mark>A</mark> Act	ivate D	Deactivat	e U	Dump		
Sysname IND _ SITE1	Status SITE 1	IPLtype	LPAR	IPLmode	Auto	L-addr	Loadparm	
_ XDR2 C	ACTIVE	NORMAL	XDR2	SITE1	YN	502D	410000M1	
_ BOEVMXDR	XDR-P	NORMAL	XDR	NORMAL	VL			
_ BOEVMXD1 S	XDR-P	NORMAL	VMXD1	NORMAL	VL			
_ SITE2	SITE 2							
_ XDR1 C	MASTER	NORMAL	XDR1	SITE2	YN	5008	410000.1	
_ CF01	MANUAL	NORMAL	XDR1CFF	SITE2	NN			
_ BOEVMXD2 S	XDR-P	NORMAL	VMXD2	NORMAL	VL			
1 CPC Ops 2 SS	SI Ops							
Selection ===>				S	SIVI	EW Done	e	
F1=Help	F3=Retur	n F6=Rol	l			1=Right	_	
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Connected to remote server/	host tn3270.de.ibm.cor	m using lu/pool FU0	U9838 and port 23					20701
52							© 2014 IBM (	Corporation

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Host: tn3270.de.ibm.com	Port: 23	LU Name: FU0U9838	Disconnect
VPCPPNLP GI	) PS - Disaster/Recov		GDPS V3.R10.M5
System =	XDR1 IPWFL	Primary Dasd = <mark>NO</mark>	K SITE1 SITE 1
Current Master	= XDR1 IPWFL	Pri FB xDR = NO	K SITE1
Turuccoc mouo	= YES		
ingporonap rorro	DISABLED YES		
boodg	= ON		
Don Status	=		
1	Dasd Remote Copy		
3	Standard Actions		
4	DCM Actions		
4	Den netrons		
6	Planned Actions		
7	Sysplex Resource	Management	
8	Debug ON/OFF		
9	View/Alter Defin:	itions	
н	Health Checks		
С	Config Managemen	t	
М	Run Monitor1/Mon	itor3	
Selection ===> $\underline{6}$	E2-Datura	FC D-11	
F1=Help	F3=Return	F6=Roll	
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D         Session C - [24 x 80]	
<u>File Edit View Communication Actions Window H</u> elp	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838	Disconnect
VPCPFUS1 Planned Actions (User Defined) V iew X ecute	XDR 1
X MOVE_HOME_XD1 'MOVE GUESTS HOME TO BOEVMXD1' MOVE_HOME_XD2 'MOVE GUESTS HOME TO BOEVMXD2' STARTSEC 'START SECONDARY' SWAP_RESYNCH 'SWITCH HYPERSWAP RESYNCH' SWAP_SUSPEND 'SWITCH HYPERSWAP SUSPEND' SWAP_TERMINATE 'SWITCH HYPERSWAP TERMINATE'	
Selection ===> F1=Help F3=Return F7=Up F8=Down	F6=Roll
MA C	05/00
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<u>File Edit View Communication Actions Window H</u> elp	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838	Disconnect
VPCPFUS1 Planned Actions (User Defined)	XDR1
V iew X ecute	
_ MOVE_HOME_XD1 'MOVE GUESTS HOME TO BOEVMXD1'	
_ MOVE_HOME_XD2 'MOVE GUESTS HOME TO BOEVMXD2'	
_ STARTSEC 'START SECONDARY' _ SWAP_RESYNCH 'SWITCH HYPERSWAP RESYNCH'	
SWAP_SUSPEND 'SWITCH HYPERSWAP SUSPEND'	
SWAP_TERMINATE 'SWITCH HYPERSWAP TERMINATE'	
Oction initiated check SDE	
Action initiated, check SDF Selection ===> sdf_	
	F6=Roll
F7=Up F8=Down	
	227
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23	
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과 Session C - [32 x 80]			- • • ×		
File Edit View Communication Act	ions Window Help				
			- []		
Host: tn3270.de.ibm.com	Port: 23	LU Name: FU0U9838	Disconnect		
SDF - XDR1GDPS	GDPS Disaster/Recove	ery Readiness	02/09/15 17:19:37		
Site 1		Site 2			
Automation	RemoteCopy	Automation	RemoteCopy		
1/6(6)	1/10(11)	1/6(6)	1/10(11)		
XDR2H	XDR2SCSI1	XDR1H	XDR1SCSI1		
XDR2CPC	XDR2	XDR1IPL	XDR1		
XDR2CPC	XDR2	XDR1AOM	XDR1		
XDR2IPL	XDR2	XDR1INI	XDR1		
XDR2INI	XDR2L	XDR1INI	XDR1		
XDR2S	XDR2L	XDR1S	XDR1L		
	XDR2D		XDR1D		
	XDR2D		XDR1D		
	XDR2D		XDR1D		
	XDR2D		XDR1D		
Time Text 17:19:00 MOVE_HOME_XD1 PLANNED/STANDARD ACTION STARTED 17:19:30 XDR BOEVMXD2 15 MOVE VMRELOCATION EXECUTED OUT OF TOTAL 15 17:19:30 XDR BOEVMXD2 USER XD1PRD25 IN DOMAIN XDRSALL MOVED TO BOEVMXD1 17:19:00 SSIRELOC='MOVE DOMAIN(XDRSALL) SOURCE(BOEVMXD2) TARGET(BOEVMXD1) USEF 17:19:35 XDR XDRGRELA COMMAND RETURN CODE: 0 17:19:35 SSIRELOC='MOVE DOMAIN(XDRSALL) SOURCE(BOEVMXD2) TARGET(BOEVMXD1) USEF 17:19:35 MOVE_HOME_XD1 PLANNED/STANDARD ACTION ENDED 17:19:35 XDR XDRQRELO ACTION INITIALIZED (1) TRANSACTION 17:19:35 XDR XDRGRELA ACTION INITIALIZED (1) TRANSACTION 17:19:35 XDR XDRGRELA ACTION INITIALIZED (1) TRANSACTION 17:19:35 XDR XDRGRELA ACTION INITIALIZED (1) TRANSACTION					
1=Help 2=Detail 3=		9=Bottom 10=Pre 21=DTRACE 22=DDASD 2			
MA C			19/02:		
Connected to remote server/host tn32	270.de.ibm.com using lu/pool FU0U9838 and p	ort 23			

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3 Session C - [24 x 80]		
<u>File Edit View Communication Actions Window H</u> elp		
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838	Disconnect	
VPCPFUS1 Planned Actions (User Defined) V iew X ecute		XDR1
<ul> <li>MOVE_HOME_XD1</li> <li>MOVE_HOME_XD2</li> <li>STARTSEC</li> <li>SWAP_RESYNCH</li> <li>SWAP_SUSPEND</li> <li>SWAP_TERMINATE</li> <li>SWAP_TERMINATE</li> <li>MOVE GUESTS HOME TO BOEVMXD2'</li> <li>SWAP_SUSPEND</li> <li>SWAP_TERMINATE</li> <li>SWAP_TERMINATE</li> </ul>		
Selection ===> F1=Help F3=Return F7=Up F8=Down	F6=Roll	
MA C		22/01
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 and port 23		1

	- 0 ×
<u>File Edit View Communication Actions Window H</u> elp	
Host: tn3270.de.ibm.com Port: 23 LU Name: FU0U9838 Disconnect	
VPCPPNLP GDPS - Disaster/Recovery System GDPS V3	.R10.M5
System=XDR1IPWFLPrimary Dasd = NOKSITE1SITE1Current Master=XDR1IPWFLPri FB xDR= NOKSITE1Parallel mode=YESHyperSwapFO/FB=DISABLEDYESDebug=ONDCMStatus=1Dasd Remote Copy	TE 1
3 Standard Actions 4 DCM Actions	
6 Planned Actions 7 Sysplex Resource Management 8 Debug ON/OFF 9 View/Alter Definitions H Health Checks C Config Management M Run Monitor1/Monitor3	
Selection ===> 3 Licensed Materials - Property of IBM 6942-35B © Copyright IBM Corp. 1998, 2013 All Rights Reserved.	
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Host: tn3	270.de.ibm.	com	Port: 23	U	U Name: FU0U9838		Disc	onnect	
VPCPSTD1	-		Standard		KINCH FRAMEWOR	100.00	100000-0000 - 000000	XDR	1
	S Stop L Load			-	QryxDR Deactivat		SSI Vi Dump	ew	
Sysname _ SITE1	IND	Status SITE 1	IPLtype	LPAR	IPLmode	Auto	L-addr	Loadparm	
_ XDR2 _ BOEVMXDR	С	ACTIVE XDR-P	NORMAL NORMAL	XDR2 XDR	SITE1 NORMAL	YN VL	502D	410000M1	
V BOEVMXD1 _ SITE2	S	XDR-P SITE 2	NORMAL	VMXD1	NORMAL	VL			
_ XDR1 _ CF01	C	MASTER MANUAL	NORMAL NORMAL	XDR1 XDR1CFF	SITE2 SITE2	YN NN	5008	410000.1	
_ BOEVMXD2	S	XDR-P	NORMAL	VMXD2	NORMAL	VL			
1 CPC Ops	2 \$\$1	0ps							
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3 Session C - [24 x 80]		
<u>File Edit View Communication Actions Window H</u> elp		
Host: tn3270.de.ibm.com Port: 23	LU Name: FU0U9838	Disconnect
VPCPSTDK xDR VM SSI Management -		XDR1
Cluster Actions: D Relocation Domain	S	
Member Actions: S Stop Q QryxDR	Receiv	e: OK Dispatch: OK
Mode	State	e. ok bispaton. ok
Cluster		
D XDRSSI STABLE		
SITE1		
B0EVMXD1	JOINED	
SITE2		
_ BOEVMXD2	JOINED	
Cmd ===>		
	=Roll F7=Up F8=Down	
		23/01
Connected to remote server/host tn3270.de.ibm.com using lu/pool FU0U9838 an	d port 23	

		TBM
3 Session C - [24 x 80]		
File Edit View Communication Actions	Window Help	
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Host: tn3270.de.ibm.com	Port: 23 LU Name: FU0U9838	Disconnect
	ation Domain Status for SSI Cluster X	DRSSI XDR1
Actions: GR Guest Rel	oc TR Test Guest Reloc	
STATE SITE1 OK	USER	ve: OK Dispatch: OK
Domain XDRSALL BOEVMXD1 JOINED		
Userid Userid	XD1PRD29XD1PRD28XD1PRD27X XD1PRD14XD1PRD13XD1PRD12X	
SITE2 OK		
Domain XDRSALL		
BOEVMXD2 JOINED Userid	XD2PRD49XD2PRD46XD2PRD32X	D2PRD31XD2PRD30
Userid	XD2PRD42XD2PRD41XD2PRD40	
Cmd ===>		
F1=Help F3=Return	F5=Refresh F6=Roll F7=Up F8=Down	F9=Active Domains
F10=Left F11=Right	F12=All Domains	
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Connected to remote server/host tn3270.de	ibm.com using lu/pool FU0U9838 and port 23	



# End of Demo



## GDPS Control Script

- Test a relocation SSIRELOC ='TEST [DOMAIN(domain\_name|ALL)] SOURCE(sysname)[TARGET(sysname|ANY)] [USER(userid|ALL)]'
- Relocate a guest SSIRELOC ='MOVE [DOMAIN(domain\_name|ALL)] SOURCE(sysname)[TARGET(sysname|ANY)] [USER(userid|ALL)]'
- Wildcards are possible for domain name and userid



## GDPS Control Script Examples

### Site Maintenance

#### Move all guests from site 1 to site 2

SSIRELOC = 'MOVE DOMAIN(PROD\*)
SOURCE(VM11) TARGET(VM21) USER(ALL)
SSIRELOC = 'MOVE DOMAIN(PROD\*)
SOURCE(VM12) TARGET(VM22) USER(ALL)
SYSPLEX = 'STOP ...'

## End of Site Maintenance

#### Move guests home to site 1

SSIRELOC = 'MOVE DOMAIN(PROD\*)
SOURCE(VM21) TARGET(VM11) USER(lnx1\*)
SSIRELOC = 'MOVE DOMAIN(PROD\*)
SOURCE(VM22) TARGET(VM12) USER(lnx1\*)

### VM Maintenance

#### Move all guests away from VM11

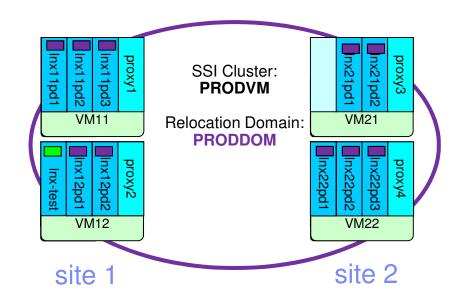
SSIRELOC = 'MOVE DOMAIN(PROD\*)
SOURCE(VM11) TARGET(ANY) USER(ALL)

#### Move guests home to VM11

SSIRELOC ='MOVE DOMAIN(PROD\*)
SOURCE(VM21) TARGET(VM11) USER(lnx11\*)
SSIRELOC ='MOVE DOMAIN(PROD\*)
SOURCE(VM22) TARGET(VM11) USER(lnx11\*)
SSIRELOC ='MOVE DOMAIN(PROD\*)
SOURCE(VM12) TARGET(VM11) USER(lnx11\*)

## Move guests on same site from VM11 to VM12

```
SSIRELOC = 'MOVE DOMAIN(PROD*)
SOURCE(VM11) TARGET(VM12) USER(ALL)
65
```



#### **Recommendation:**

 use naming conventions for guest systems in order to have "move home" scripts
 e.g. <prefix><site index><member</li>

index>... With good naming conventions, one relocation domain containing all SSI

members might be sufficient



## Summary, Best Practices – Means to control SSI via GDPS

- Use Relocation Domains
  - select workload per type (test, production, development, ...)
  - restrict where guests can move to e.g. limit to a specified site, hardware
- Naming Convention: Relocation domain controlled by GDPS must have the same 4character-prefix as the SSI Name
- Use Naming Conventions for guest names to be able to "move home" via GDPS scripts
   Allows to select guest names in GDPS scripts via wildcards Examples:
  - guestname=<prefix><site index><vm index><workload><nr> e.g. lnx11dv1, lnx21pd2 Allows to select all guests on a site or guest independent of workload type
  - guestname=<workload><site index><vm index><var><nr> e.g. prd11lx1, dev21lx2 Allows to select guests per workload type – consider to use different relocation domains for that purpose
- Decide on number of members in a Relocation Domain
  - 4 members
    - Advantage: very flexible
    - Disadvantage: guest relocation operations require to specify target
  - -2 members
    - Advantage: no need to specify a target in case of guest relocation
    - Disadvantage: loss of flexibility



# **Questions?**





# **Backup Slides**