

APPLIES TO:

SAP HANA Replication(Disaster Recovery).

SUMMARY:

This article explains how to SAP HANA Replication(Disaster Recovery).

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Prerequisites:

The primary and secondary systems are installed and configured.

• The HANA software version running on the secondary system has to be equal or newer to the version on the primary.

• The secondary system must have the same SAP system ID, <SID> and instance number as the primary system. The primary replicates all relevant license information to the secondary. An additional SAP HANA license is not required.

• Any changes made to the ini file configuration parameters on one system should be manually duplicated on the other system.

• The required ports must be available. The same <instance number> is used for primary and secondary systems. The <instance number>+1 must be free on both systems, because this port range is required for system replication communications.

• An initial backup must be performed on the primary before system replication can be activated.



Setup:

System replication can be configured with HANA studio or with the command line on the console.

The first step is to enable system replication on the two identical systems. Using HANA Studio

Create a backup of the primary system by right-clicking on the primary system (later named as siteA), navigating to Backup and Recovery, and selecting Back Up system.



16	SA	P HANA Admir	nistration Console	System: S4P H	lost: linux-de6g Instar	nce: 02 Con
File Edit N	lavigate P	roject Window	Help			
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Pro Systems ∑	3	- [□ 💷 *SQL Console	1 🛛 🖥 S4P	₩ S4P ⊠	
P • 1	🖳 🚺 🔻 (🎟 💋 🖪 🔩	🍸 📲 S4P (SY:	STEM) linux-o	le6g 02	
⊿ 🔓 S4°~~~~	Configura	ation and Monitori	ng 🕨	be Alerts Perfor	mance Volumes Configu	ration System
⊳ 🗖 🖑	Lifecycle	Management				
Þ 🖻 🗌	Backup a	nd Recovery	•	Open Backı	ip Console	4
	Security		•	Back Up Sys	tem	
🐮 S4 🏧	Open SQI	L Console		Manage Sto	rage Snapshot	10 AM
8	SAP HAN	IA Modeler	•	Recover Sys	tem	36 AM
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	Propertie	s	Alt+Enter	cturer:	VMware, Inc.	
				Memory		
<u> </u>	<u></u>		Deckup of System		_ 0	x
		d).	backup of syster	1 547		
Specify Ba	ackup S	ettings				
Specify the Estimated b	informatic ackup size	on required for th e: 49.98 GB.	ie data backup			
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Backup Ty	pe C	omplete Data Ba	ckup 🗸			
Destination	n Type 🛛 Fi	le	~			
Backup De	stination					
The defau destination you specif	lt destinati n, ensure t y an exterr	on is used unless hat the directory nal backup destir	s you specify a differe already exists. For im nation.	ent destination. If proved data safe	you specify a new ty, we recommend that	
Backup De	estination	/usr/sap/S4P/H	1DB02/backup/data			
Backup Pr	efix	COMPLETE_DA	TA_BACKUP			
i Note t part o More l	hat custor f the data l Informatio	ner-specific char backup. n: SAP HANA Ac	nges to the SAP HAN Iministration Guide	A database confi	guration are not saved a	5



Review Backup Settings

Review the backup settings and choose 'Finish' to start the backup. You can modify the backup settings by choosing 'Back'.

System Information

System:	
Host:	
Version:	

S4P linux-de6g 1.00.091.00.1418659308

Backup Definition

Backup Type:

COMPLETE DATA BACKUP Destination Type: FILE Backup Destination: /usr/sap/S4P/HDB02/backup/data Backup Prefix: COMPLETE_DATA_BACKUP

Next, system replication needs to be enabled on the primary system.Right-click on the primary system, navigate to Configuration and Monitoring, and then Configure System Replication. Choose Enable System Replication.

Configure System Replication for System S4P

Select the configuration action you want to perform.

9 EI	hable system replication
Er	nable system replication on the primary system or tier 2 secondary system (source system).
R	egister secondary system
A	ction not possible. The system must be stopped before it can be registered.
D U	nregister Secondary System
A	ction not possible. The system is not registered as a secondary system of a source system.
D P	erform takeover
A	ction not possible. System replication is not configured.



Configure System R Enable system replicatio	eplication for System S4P on the system.
Primary System Logical I	lame: ⁰ siteA
Primary System Inform Host: line Instance Number: 02	ition (S4P): x-de6g
🖄 Last Complete Data	ackup: 2016-09-25 12:08:57

Issue the Stop System command on the Secondary System by right-clicking on the Secondary System, navigating to Configuration and Monitoring, and then to Stop System.

op System S4F	>
top all instances of	system S4P based on the specified parameters
Shutdown Type	
● Soft	
Gracefully sto	os the system once all running transactions are completed or when the following date and time are reached
Date: 9/27/2	2016 😴
Time: 12:26:1	8 AM
◯ Hard	
Stops the syst	em immediately. Open transactions are aborted and rolled back.
the system does n top Wait Timeout:	ot shut down within the following stop wait timeout, shutdown is forced.



Now register the secondary by right-clicking on Secondary System, navigating to Configuration and Monitoring, and then to Configure System Replication. Select Register Secondary System

Configure System Replication for System S4P

Select the configuration action you want to perform.

Acti	ons:
0	Enable system replication
	Action not possible. The system must be running before system replication can be enabled.
۲	Register secondary system
	Register the system as the secondary system of the primary system or tier 2 secondary system (source system).
0	Unregister Secondary System
	Action not possible. The system is not registered as a secondary system of a source system.
0	Perform takeover
	Action not possible. System replication is not configured.

15	Configure System Replication	_ 🗆 X
Configure System	Replication for System S4P	
Register the system a secondary system (se	the secondary system of the primary system or tier 2 urce system).	
Secondary System Lo	jical Name: [®] siteB	
Replication Mode:	Synchronous (mode=sync) 🗸	
Source System Info Host: Instance Number:	Synchronous (mode=sync) nation (S4P): Synchronous in memory (mode=syncmem) linux-de6g 02	
 ✓ Initiate full data ✓ Start the second 	nipping ry system after registration	



The replication process will automatically start when the secondary system starts.

Monitoring of Replication status:

double click on <SID> on HANA STUDIO goto ->landscape->system replication.

🕴 Systems 🛛 🗖 🗖	SQL Console 1	🚺 S4P 🚺 S4P 🕅	3								
Image: Supplementary of the second	Bervices Hosts R	TEM) linux-de6g 02 pe Alerts Performance Vo edistribution System Replica	lumes Configuration System	Last Updat	te: Sep 27, 2016 12:30:07 AM 🗞 🛛 🔟 In Trace Configuration	terval: 5	Seconds 👔				
Provisioning	Enter your filter	Enter your filter 🚯 Visible rows: 4/4 🔅 Filte 👻 🗟 Save a									
S4P (SYSTEM)	AB HOST	AB SECONDARY_HOST	REPLICATION_MODE	REPLICATION_STATUS	REPLICATION_STATUS_DETAILS	12 PORT	12 VOLUME_ID				
	linux-de6g	linux-fd8h	SYNC	ACTIVE		30,205	2				
	linux-de6g	linux-fd8h	SYNC	ACTIVE		30,207	3				
	linux-de6g	linux-fd8h	SYNC	ACTIVE		30,201	1				
	linux-deбg	linux-fd8h	SYNC	INITIALIZING	Full Replica: 87 % (44352/50586 MB)	30,203	4				

Overview Landscape Alerts Performance Volumes Configuration System Information Diagnosis Files Trace Configuration

Services	Hosts	Redi	stribution	System	Replication									
Enter y	our filt	er		Visit	ole rows: 4/4							➡ Filte ▼	Save	a 🔻 🍺
\$	TE_ID	AB	SITE_NAM	1E 12	SECONDA	RY_PORT	12	SECONDARY_SITE_ID	AB	SECONDARY_SITE_NAME	AB	SECONDARY_ACTIVE_STATUS	III SE	CONDARY_C
	1	siteA				30,205		2	siteB		YES		Sep 27,	2016 3:30:36.
	1	siteA				30,207		2	siteB		YES		Sep 27,	2016 3:30:00.
	1	siteA				30,201		2	siteB		YES		Sep 27,	2016 3:30:42.
	1	siteA				30,203		2	siteB		YES		Sep 27,	2016 3:30:43.

Failover :Manual

To perform an SAP HANA takeover manually, the secondary needs to be told to perform the takeover and the network environment needs to be configured to support that change.

- 1. Ensure primary system is stopped.
- 2. Unbind virtual IP address (IP redirection) or change DNS entry.

3. Right-click on siteB (secondary system), navigate to Configuration and Monitoring, and Configure System Replication.

- 4. Select Perform Takeover.
- 5. Bind virtual IP addresses.
- 6. Ensure backups are running on siteB (new primary), if desired.



Issue the Stop System command on the Primary System by right-clicking on the Primary System, navigating to Configuration and Monitoring, and then to Stop System.

Stop System S4P

Stop all instances of system S4P based on the specified parameters

Shutdown Type
⊖ Soft
Gracefully stops the system once all running transactions are completed or when the following o
Date: 9/27/2016
Time: 1:42:31 AM
• Hard
Stops the system immediately. Open transactions are aborted and rolled back.
If the system does not shut down within the following stop wait timeout, shutdown is forced.
Stop Wait Timeout: 400 🔷 Seconds

by right-clicking on the Secondary System, navigating to Configuration and Monitoring, and then select Perform takeover System.



C C	onfigure System Replication	_ D X							
Configure System Replication for System S4P									
Select the configuration action you want to perform.									
Actions:									
O Enable system replication									
Enable system replication on t	he primary system or tier 2 secondary system (so	ource system).							
 Register secondary system 									
Action not possible. The system	m must be stopped before it can be registered.								
O Unregister Secondary System									
Action not possible. The system	m must be stopped before it can be unregistered	4.							
Derform takeover									
Perform a takeover. The system	n takes over from its source system.								
6	Configure System Replication	_ D X							
Configure System Replicatio	n for System S4P								
Review configuration summary.	······								
Configuration details for takeove	er								
Secondary System Information (S	4P)								
Host:	linux-fd8h								
Instance Number:	02								

To unregister original secondary node (siteB) and disable system replication on the original primary (siteA):

1. If siteA is not started, Right-click on the system, navigate to Configuration and Monitoring, and then Start System.



🖁 🛛 🖓 🖓 🖓	SEL *SQL	Console 1	S4P S4P	4P 🚺 S4P 🖾	S4P	👛 Backup S	4P (SYSTEM)					
Image: Subscript of the state I	E S4	P (SYST 1.00.091.0	EM) linux-de6g 0.1418659308 (fa/ne	02 wdb100_rel)			Last Update: Se	p 27, 2016 2:38:49	AM 🗞 🔲 Interval: 5			
Pending	Processe	Processes Diagnosis Files Emergency Information										
 Catalog Content Provisioning 	Host: KAIIN V 🗱											
Security	Active	Host	Process *	Description	Process ID	Status	Start Time	Elapsed Time				
Contraction of the second		linux-de6g	hdbcompileserver	HDB Compileserver	25911	Running	Sep 27, 2016 5:36:10 AM	0:02:20				
		linux-de6g	hdbdaemon	HDB Daemon	25625	Initializing	Sep 27, 2016 5:35:52 AM	0:02:38				
		linux-de6g	hdbindexserver	HDB Indexserver	26011	Initializing	Sep 27, 2016 5:36:22 AM	0:02:08				
		linux-de6g	hdbnameserver	HDB Nameserver	25763	Running	Sep 27, 2016 5:35:54 AM	0:02:36				
		linux-de6g	hdbpreprocessor	HDB Preprocessor	25908	Running	Sep 27, 2016 5:36:10 AM	0:02:20				
		linux-de6g	hdbstatisticsserver	HDB Statisticsserver	26014	Initializing	Sep 27, 2016 5:36:22 AM	0:02:08				
		linux-de6g	hdbwebdispatcher	HDB WebDispatcher		Scheduled						
		linux-de6g	hdbxsengine	HDB XSEngine	26017	Initializing	Sep 27, 2016 5:36:22 AM	0:02:08				
			2									
1												

2. Right-click on the original primary (siteA), navigate to Configuration and Monitoring, and then Configure System Replication. Select Unregister Secondary System, select siteB, and follow prompts.

Configure System Replication	-		x
Configure System Replication for System S4P			
Select the configuration action you want to perform.			
 Actions: Disable system replication Disable system replication on the primary system or tier 2 secondary system (source) Register secondary system Action not possible. The system is the primary system. Unregister Secondary System Unregister a secondary system from the primary system. Perform takeover 	syste	m).	
Action not possible. The system is the primary system. ((Cancel	



6	Configure System Replication			x			
Configure System Rep	lication for System S4P						
Unregister a secondary system from the primary system. All the metadata of the secondary system is removed from the primary system.							
Select the secondary syster the tier 2 secondary system	n to be unregistered. You must unregister th	e tier 3 secondary s	system first,	, then			
Secondary System Name:	siteB	⊻					
Note: You are performing t the secondary system on th This means that when the system but fail. To success secondary system or perfor over from the primary syste becomes the primary syste primary system. For more i	he unregister action on the primary system. The primary system. The configuration of the secondary system is started, it will still try to fully start the secondary system, you need to m the unregister action on the secondary sy tem, the replication metadata is preserved on m. If you unregister the secondary system, sy nformation, see SAP Note 1945676.	This deletes only the secondary system is replicate data from either perform a tar stem. If the second the secondary syst ystem replication is	ne metadat is not chang the primar akeover on lary system em and it s disabled o	a of ged. y the takes n the			

3. Right-click on the original primary (siteA), navigate to Configuration and Monitoring, and then Configure System Replication. Choose Disable System Replication and follow the prompts.

	Configure System Replication	
onfigure Syst	em Replication for System S4P	
Select the configu	iration action you want to perform.	
Actions:		
Oisable syst	em replication	
Disable syst	em replication on the primary system or tier 2 secondary syste	em (source system).
O Register sec	ondary system	
Action not	possible. The system is the primary system.	
O Unregister 9	econdary System	
Action not	possible. The system is not registered as a secondary system o	f a source system.
O Perform tak	eover	
Action not	possible. The system is the primary system.	



Configure System Replication
Configure System Replication for System S4P
Disable system replication on the primary system or tier 2 secondary system (source system).
Source System Information (S4P): Host: linux-de6g Instance Number: 02
Ignore secondary system
Disabling system replication
Disabling system replication
Always run in background
Run in Background Cancel Details >>

Assign original primary as secondary:

4. Stop siteA, Right-click on it, navigate to Configuration and Monitoring, and then Stop System.

 Image: Supervised of the second se	Image: S4P (SYSTEM) linux-de6g 02 La Version: 1.00.091.00.1418659308 (fa/newdb100_rel) Processes Diagnosis Files Emergency Information Host: <								
	Active	Host linux-de6g	Process hdbdaemon	Description HDB Daemon	Process ID 25625	Status Stopped	Start Time	Elapsed Time	

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5. Right-click on siteA, navigate to Configuration and Monitoring, and then Configure System Replication. Select Register Secondary System and configure replication as synchronous.

6		Config	ure Sys	stem F	Replica	atior	า		-	. 🗆	x
Configure Syste	m Replicati	ion for S	System	n S4P							
Select the configura	tion action yo	u want to	o perforn	n.							
Actions:											
O Enable system	replication										
Action not po	ssible. The syst	tem mus	t be runr	nina be	fore sys	stem	replicat	ion can	be ena	bled.	
										0.000	
Register secor	idary system	condan	outom.	of the n	rimanı	oute	m or tic	1 2 0000	ndan	o vetero	
(source syster	n).	econuary	system	or the p	minary	syste	in or de	a z secu	Indaty	system	
O Unregister Sec	ondary System	n									
Action not po	ssible. The syst	tem is no	ot registe	ered as a	secon	dary s	system	of a sou	irce sys	tem.	
O Perform taked	ver										
Action not po	ssible. System	replicatio	on is not	configu	ure <mark>d</mark> .						
6	(Configu	ure Syst	tem R	eplica	ition			-		x
Configure System	n Replicatio	on for S	System	S4P							
Register the system a secondary system (se	as the seconda ource system).	iry systen	n of the p	primary	system	n or ti	er 2				
Consultant Contant In											
Secondary System Lo	igical Name:	SITEA									
Replication Mode:		Synchro	onous (m	node=s	ync)			~			
Source System Info	rmation (S4P):										
Host:	linux-fd8h										
Instance Number:	02										
Initiate full data	shipping										
 Start the second 	ary system after	er registra	ation								



9 Systems ⊠ □	SQL Console 1	🛐 S4P 📲 S4P	🖥 S4P 📲 S4P 🖾 🌡	Backup S4P (SYSTEM)			-
	🔀 S4P (SYS	TEM) linux-fd8h 02			Sep 27, 2016 2:19:09 AM 🚸 🛛 🕪 Int	erval: 60	Seconds 📔 🔓
GAP (SYSTEM) ▲ S4P (SYSTEM) Pending ▷ Catalog	Overview Landscap	e Alerts Performance Vol	umes Configuration System	Information Diagnosis Files	Trace Configuration		
Content	Enter your filter	Visible row	s: 4/4		⇒⇒ F	ilte 🝷 🔚	Save a 💌 🗽
þ 🗁 Security	RB HOST linux-fd8h linux-fd8h linux-fd8h linux-fd8h	RE SECONDARY_HOST linux-de6g linux-de6g linux-de6g linux-de6g	140 REPLICATION_MODE SYNC SYNC SYNC SYNC SYNC	REPLICATION_STATUS ACTIVE ACTIVE ACTIVE INITIALIZING	He REPLICATION_STATUS_DETAILS Full Replica: 34 % (17280/50587 MB) Image: Comparison of the second	12 PORT 30,205 30,207 30,201 30,203	12 VOLUME_ID 2 3 1 4
Systems 🛛 🗆 🗆	SQL Console 1	54P 54P	54P 54P ∞	🛎 Backup S4P (SYSTEM)			
Image: Second	S4P (SYS	TEM) linux-fd8h 02 pe Alerts Performance Vo	lumes Configuration System	Last Upd n Information Diagnosis Files	late: Sep 27, 2016 2:19:09 AM 🖗 🛛 🕪 In Trace Configuration	terval: 60 🗸	Seconds 👔 [
Catalog Content Content Content	Services Hosts R	edistribution System Replic	ation /s: 4/4		-11 -17	Filte 🔻 🛛	Save a 🔹
Security	AB HOST	AB SECONDARY_HOST	AB REPLICATION_MODE	REPLICATION_STATUS	AB REPLICATION_STATUS_DETAILS	12 PORT 30.205	12 VOLUME_ID
	linux-fd8h linux-fd8h	linux-de6g linux-de6g	SYNC	ACTIVE		30,207	3
	linux-fd8h	linux-de6g	SYNC	ACTIVE		30,203	4

Now placing the systems as they where before fail over

Down the secondary system (original secondary)

🖌 System	-		X	
Stop System S4P				
Stop all instances of system S4P based on the specified parameters				
Shutdown Type Soft Gracefully stops the system once all running transactions are completed or when the following date and time ar Date: 9/27/2016 Time: 4:04:36 AM	re reac	hed		
Stops the system immediately. Open transactions are aborted and rolled back.				
If the system does not shut down within the following stop wait timeout, shutdown is forced.				
Stop Wait Timeout: 400 😴 Seconds				



🖁 o Systems 🛛 🗖		Console 1	🛛 🚺 S4P 🖾	S4P	S4P	S4P	🖄 Backup	S4P (SYSTEM)	
 	Version Processe	P (SYST : 1.00.091.(:s Diagnosis :All>	EM) linux- 00.1418659308 Files Emerger	fd8h 02 (fa/newdb100_r ncy Information	el)			Last U	pdate: Sep 27, 2016 3:57:43 AI
	Active	Host linux-fd8h	Process hdbdaemon	Description HDB Daemon	Process ID 17415	Status Stopped	Start Time	Elapsed Time	

Now putting back original Primary to its place

Configure System Replication
Configure System Replication for System S4P
Select the configuration action you want to perform.
Actions:
○ Enable system replication
Enable system replication on the primary system or tier 2 secondary system (source system).
○ Register secondary system
Action not possible. The system must be stopped before it can be registered.
O Unregister Secondary System
Action not possible. The system must be stopped before it can be unregistered.
Perform takeover
Perform a takeover. The system takes over from its source system.
Performing takeover
Performing takeover
Always run in background Run in Background Cancel Details >>



	onfigure System Replication	
Configure System Replication	n for System S4P	
Select the configuration action you w	vant to perform.	
Actions:		
O Disable system replication		
Disable system replication on t	he primary system or tier 2 secondary system (so	ource system).
O Register secondary system		
Action not possible. The system	n is the primary system.	
Unregister Secondary System		
Unregister a secondary system	from the primary system.	
O Perform takeover		
Action not possible. The system	n is the primary system.	
د. م	unfigure Custom Deviliantian	
	onigure system Replication	
Configure System Replication	for System S4P	
	he primany system. All the metadata of the	
Unregister a secondary system from t secondary system is removed from th	e primary system.	
Unregister a secondary system from the secondary system is removed from the Select the secondary system to be unit the tier 2 secondary system.	registered. You must unregister the tier 3 second	lary system first, then
Unregister a secondary system from the secondary system is removed from the Select the secondary system to be unit the tier 2 secondary system. Secondary System Name: siteA	registered. You must unregister the tier 3 second	lary system first, then



Configure System Replication
Configure System Replication for System S4P
Select the configuration action you want to perform.
Actions:
Disable system replication
Disable system replication on the primary system or tier 2 secondary system (source system).
O Register secondary system
Action not possible. The system is the primary system.
O Unregister Secondary System
Action not possible. The system is not registered as a secondary system of a source system.
O Perform takeover
Action not possible. The system is the primary system.
1. A state in a state of the state structure of the state of the st
Configure System Replication
Configure System Replication for System S4P
Disable system replication on the primary system or tier 2 secondary system (source system).
Source System Information (S4P):
Host: linux-fd8h
Instance Number: 02
Ignore secondary system



System
Stop System S4P Stop all instances of system S4P based on the specified parameters
Shutdown Type Soft Gracefully stops the system once all running transactions are completed or when the following date and time are reached Date: 9/27/2016 Time: 6:01:57 AM Image: Hard Stops the system immediately. Open transactions are aborted and rolled back.
If the system does not shut down within the following stop wait timeout, shutdown is forced. Stop Wait Timeout: 400 🔦 Seconds

Configure System Replication								
Configure System Replication for System S4P								
Select the configuration action you want to perform.								
Actions: O Enable system replication Action not possible. The system must be running before system replication can be enabled.								
 Register secondary system Register the system as the secondary system of the primary system or tier 2 secondary system (source system). 								
O Unregister Secondary System								
Action not possible. The system is not registered as a secondary system of a source system.								
 Perform takeover Action not possible. System replication is not configured. 								



16	Conf	figure System Replication	_ D X					
Configure System Replication for System S4P								
Register the system a secondary system (so	as the secondary sys ource system).	stem of the primary system or tier 2						
Secondary System Lo	ogical Name: ⁶ site	В						
Replication Mode:	Syn	chronous in memory (mode=syncmem) 🖂						
Source System Info	rmation (S4P):							
Host:	linux-de6g							
Instance Number:	02							
🗌 Initiate full data :	shipping							
Start the second	ary system after reg	istration						
6	Conf	igure System Replication	- D X					
Configure System	n Replication fo	r System S4P						
Review configuration	n summary.							
Configuration detai	ils for registering t	he secondary system	^					
Secondary System	Logical Name:	siteB						
Replication Mode:		Synchronous in memory (mode=syncmer	n)					
Source System Info	ormation (S4P):							
Host:		linux-de6g	=					
Instance Number:		02						
Initiate full data shi	ipping							
Start the secondary	/ system after regist	ration						



🔓 Systems 🛛 🗖 🗖	SQL Console 1	📲 S4P 📲 S4	P 🖾 🚺 S4P	S4P	Backup S4P (SYSTEM)				6
Image: SAP (SYSTEM)	S4P (SYS	BS4P (SYSTEM) linux-de6g 02				Last Update: Sep 27, 2016 5:57:40 AM 💸 🔟 Interval: 5 🔽 Seconds 👔			
ackup 🖄 Backup	Overview Landscape Alerts Performance Volumes Configuration System information Diagnosis Files Trace Configuration								
Catalog	Services Hosts R	edistribution System Re	plication						
Content	(-+1.			
 Provisioning Security 	Enter your filter	(i) Visible	-H	Filte 🔻	Save a 🔻	0			
S4P (SVSTEM)	AB HOST	RECONDARY_HO	DST AB REPLIC	CATION_MODE	REPLICATION_STATUS	REPLICATION_STATUS_DETAILS	12 PORT	12 VOLUME_ID	
	linux-de6g	linux-fd8h	SYNCMEM		ACTIVE		30,205	2	
	linux-de6g	linux-fd8h	SYNCMEM		ACTIVE		30,207	3	
	linux-de6g	linux-fd8h	SYNCMEM		ACTIVE		30,201	1	
	linux-de6g	linux-fd8h	SYNCMEM		INITIALIZING	Full Replica: 5 % (2816/50587 MB)	30,203	4	





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