



# **Sample Site Survey and Planning worksheet**

**ONTAP FLI**

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# Sample Site Survey and Planning worksheet

## Sample Site Survey and Planning worksheet

During the analysis and planning phases of the migration methodology you will need to document your existing configuration, target configurations, gaps, and remediation plans using a Site Survey and Planning worksheet.

This section provides examples of types of information the Site Survey and Planning spreadsheet should contain. The following tabs are recommended:

- Contact
- Questionnaire
- Switches
- Storage Devices (Source)
- Storage Devices (Destination)
- Hosts
- HBA and Zone Information
- Source LUNs
- Storage Groups
- LUN Details
- NetApp LUN Layouts
- Migration Schedule
- Aggregate Status
- FAS Config
- SDS CLI Scripts

## Site Survey and Planning worksheet Contacts tab

As part of your Site Survey and Planning worksheet, you should set up a tab containing migration project contact information.

The following is an example of how to set up your Contacts tab.

Migration Project Contact Information					
Resource Name	Organization	Project Role	Office Phone	Cell Phone	Email

## Site Survey and Planning worksheet Questionnaire tab

As part of your Site Survey and Planning worksheet, you should have a tab containing migration project information from your initial migration questionnaire.

The following is an example of how to set up your Questionnaire tab.

Migration Project Information		
Project Type	<input type="checkbox"/> Data Migration <input type="checkbox"/> Other	
Data Migration Objectives	[Objectives]	
Source Devices	Storage: [Storage Type] No. of Devices: [No. of arrays] Thin-provisioned: <input type="checkbox"/> Yes <input type="checkbox"/> No	Enumerate all devices
Client Devices	Operating System: [OS Version] SAN boot: <input type="checkbox"/> Yes <input type="checkbox"/> No MPIO: [MPIO Version] HBAs: [HBA Vendor, Model, Firmware]	
Fabric Switches	Vendor: Model: Firmware: No. of Ports:	
Current Protocols	<input type="checkbox"/> FCP <input type="checkbox"/> iSCSI	
Volume Manager	Vendor: Product: Version:	
Destination Devices (Storage)	Storage: [Storage] No. [Number] Thin-provisioned: <input type="checkbox"/> Yes <input type="checkbox"/> No	For this service, NetApp filers only
Amount of Data to be Migrated (in TB)	[Amount of Data]	Summary and detail (each source device)

Migration Project Information		
Number of LUNs	[Number of LUNs]	Summary and detail (each source device)
Data Reorganization	<input type="checkbox"/> Yes <input type="checkbox"/> No	Does the customer desire to move volumes/directories/folders/files into different data structures as part of the migration?
Outage Expectations	Outage Window  <input type="checkbox"/> Pre-defined <input type="checkbox"/> Flexible  Standard Maintenance window polices : [Info]	Number and durations of outages that can be utilized. Please list maintenance windows, if any.
Desired Time frame for Completion	[Desired Time frame for Completion][Time Sensitivities]	
Other Relevant Information	[Other Relevant Information]	
Customer Organization Name and Location (City and State)		

## Site Survey and Planning worksheet Switches tab

As part of your Site Survey and Planning worksheet, you should set up a tab containing migration switch information.

The following is an example of how to set up your Switches tab.

Switches							
Current							NetApp Recommended
Host Name	IP Address	Vendor	Model	Fabric Name	VSAN/Domain	Firmware	Firmware
C9506-1-A	10.x.x.x	Cisco	9506	Prod A	10	3.3(5a)	

## Site Survey and Planning worksheet Source Storage Devices tab

As part of your Site Survey and Planning worksheet, you should have a tab containing

information on your migration source storage devices.

The following is an example of how to set up your Source Storage Devices tab.

Storage Systems				
Array Name	IP Address	Vendor	Array Model	Microcode FW/ ONTAP
AMS2100	10.x.x.x	Hitachi	AMS 2100	0893/B-X
AMS2100	10.x.x.x	Hitachi	AMS 2100	0893/B-X
AMS2100	10.x.x.x	Hitachi	AMS 2100	0893/B-X
AMS2100	10.x.x.x	Hitachi	AMS 2100	0893/B-X

Storage Systems				
Controller/Node	Port Name	WWPN	Fabric Name	Target Type
Controller0	0a	50060E80xxxxxxx	Production Fabric A	Source
Controller0	0e	50060E80xxxxxxx	Production Fabric B	Source
Controller1	1a	50060E80xxxxxxx	Production Fabric A	Source
Controller1	1e	50060E80xxxxxxx	Production Fabric A	Source

## Site Survey and Planning worksheet Destination Storage Devices tab

As part of your Site Survey and Planning worksheet, you should have a tab containing information on your destination storage devices.

Storage Systems					
Cluster Name	IP Address	Array Mode	ONTAP	vserver	Port Type
DataMig-cDOT	10.x.x.x	FAS8080	8.3.1	datamig	Target
DataMig-cDOT	10.x.x.x	FAS8080	8.3.1	datamig	Target
DataMig-cDOT	10.x.x.x	FAS8080	8.3.1	DataMig-01	Initiator

Storage Systems					
DataMig-cDOT	10.x.x.x	FAS8080	8.3.1	DataMig-01	Initiator

Storage Systems				
Port Name	LIF Name	WWPN	Fabric Name	Target Type
0c	miglif1	20:01:00:a0:98:2f:xx:xx	Prod A	Target
0d	miglif2	20:01:00:a0:98:2f:xx:xx	Prod B	Target
0a	n/a	50:0a:09:81:00:xx:xx:xx	Prod A	Target
0b	n/a	50:0a:09:81:00:xx:xx:xx	Prod B	Target

The following is an example of how to set up your Destination Storage Devices tab.

## Site Survey and Planning worksheet Hosts tab

As part of your Site Survey and Planning worksheet, you should set up a tab containing migration project host information.

The following is an example of how to set up your Hosts tab.

Hosts							
Current	NetApp Recommended						
Host Name	Driver	Firmware	HUK	MPIO	SnapDrive	SnapManager	Hotfixes
dm-rx200s6-21							
dm-rx200s6-22							
dm-rx200s6-20							

# Site Survey and Planning worksheet HBA and Zone Information tab

As part of your Site Survey and Planning worksheet, you should set up a tab containing information on your HBA and zone information.

The following is an example of how to set up your HBA and Zone Information tab.

Fabric Details			
Host Name	Description	WWPN	Fabric Name
dm-rx200s6-21	HBA0	21:00:00:24:ff:xx:xx:xx	Prod A
dm-rx200s6-21	HBA1	21:00:00:24:ff:xx:xx:xx	Prod B

Fabric Details			
VSAN/Domain	Port Number	Pre-migration Zone Membership	Post-migration Zone Membership
10	fc2/3	rx21_AMS2100	rx21_flicDOT
10	fc2/3	rx21_AMS2100	rx21_flicDOT

# Site Survey and Planning worksheet Source LUNs tab

As part of your Site Survey and Planning worksheet, you should set up a tab containing information on your source LUNs.

The following is an example of how to set up your Source LUNs tab.

Source LUNs				
Masked LUNs				
Storage Group Name	Host LUN ID	Array LUN ID	Thick/Thin	UID
dm-rx200s6-21	0	30	Thick	60060e801046b96004f2bf460000001e
dm-rx200s6-21	1	14	Thick	60060e801046b96004f2bf460000000e



Source LUNs				
dm-rx200s6-21	2	15	Thick	60060e801046b960 04f2bf460000000f

Source LUNs				
All LUNS .2a				Custom Prefix
LUN Name	UID	Starting Sector	Partition Offset	
LUN30			368050176	0
LUN14			33619968	0
LUN15			33619968	0

## Site Survey and Planning worksheet Storage Groups tab

As part of your Site Survey and Planning worksheet, you should have a tab containing information on your storage groups.

The following is an example of how to set up your Storage Groups tab.

Storage Groups			
Source			Destination
Host Name	Storage Group	WWPN	iGroup Commands
dm-rx200s6-21	dm-rx200s6-21	21:00:00:24:ff:30:14:c521: 00:00:24:ff:30:14:c4	igroup create -ostype windows -protocol fcp -vserver datamig -igroup dm-rx200s6-21 -initiator 21:00:00:24:ff:30:14:c4,21 :00:00:24:ff:30:14:c5
dm-rx200s6-22	dm-rx200s6-22	21:00:00:24:ff:30:04:8521: 00:00:24:ff:30:04:84	igroup create -ostype linux -protocol fcp -vserver datamig -igroup dm-rx200s6-22 -initiator 21:00:00:24:ff:30:04:85,21 :00:00:24:ff:30:04:84

Storage Groups			
dm-rx200s6-20	dm-rx200s6-20	21:00:00:24:ff:30:03:ea21:00:00:24:ff:30:03:eb	igroup create -ostype vmware -protocol fcp -vserver datamig - igroup dm-rx200s6-20 -initiator 21:00:00:24:ff:30:03:ea,21:00:00:24:ff:30:03:eb

## Site Survey and Planning worksheet LUN Details tab

As part of your Site Survey and Planning worksheet, you should have a tab containing information on your LUN details.

The following is an example of how to set up your LUN Details tab.

LUN Details				
Source				
Host Name	Storage Group	Operating System	Clustered	Storage Controller
dm-rx200s6-21	dm-rx200s6-21	Microsoft Windows Server 2012 R2 Datacenter	No	AMS2100
dm-rx200s6-22	dm-rx200s6-22	Red Hat Enterprise Linux Server release 5.10	No	AMS2100
dm-rx200s6-20	dm-rx200s6-20	ESXi 5.5.0 build-1331820	No	AMS2100
dm-rx200s6-20	dm-rx200s6-20	ESXi 5.5.0 build-1331820	No	AMS2100

LUN Details				
Source				
Mount Point	Physical Drive Number	Port	Bus	Target
C:	PHYSICALDRIVE0	2	0	0

LUN Details				
/	sda	0	0	0
BootLUN_Datastore	naa.60060e801046b96004f2bf4600000014	0	0	0
VM_Datastore	naa.60060e801046b96004f2bf4600000015	0	0	0

LUN Details				
Source				
LUN	PG80 SN	PG83 SN / UID	LUN Size (GB)	Starting Offset
0		60060e801046b96004f2bf460000001e	40	0
0		60060e801046b96004f2bf4600000010	20	
0		60060e801046b96004f2bf4600000014	20	
1		60060e801046b96004f2bf4600000015	40	

LUN Details				
Source				
LUN Type	Aligned	Custom Prefix (Blocks)	Custom Prefix (Bytes)	
windows	Aligned	0	0	
linux	Aligned	0	0	
vmware	Aligned	0	0	
vmware	Aligned	0	0	

# Site Survey and Planning worksheet NetApp LUN Layouts tab

As part of your Site Survey and Planning worksheet, you should set up a tab containing information on your LUN layouts.

The following is an example of how to set up your NetApp LUN Layouts tab.

NetApp LUN Information						
Storage Controller	Aggregate	Volume Name	Volume Size	Volume Guarantee	Snap Reserve	LUN Name

NetApp LUN Information						
S/N	LUN Type	Custom Prefix	LUN Description	GB Size	LUN Reservation	Fractional Reserve

NetApp LUN Information						
Volume Autosize	Snap Auto Delete	iGroup	LUN ID	Host Type	Drive Letter	Host

# Site Survey and Planning worksheet Migration Schedule tab

As part of your Site Survey and Planning worksheet, you should have a tab containing information on your migration schedule.

The following is an example of how to set up your Migration Schedule tab.

Migration Schedule							
Migration Date	Host	OS	Application	Storage Controller	LUN UID	LUN Size	Status

# Site Survey and Planning worksheet Aggregate Status tab

As part of your Site Survey and Planning worksheet, you should have a tab containing information on your aggregate status.

The following is an example of how to set up your Aggregate Status tab.

NetApp Aggregate Information					
Controller	Aggregate	Total Size (GB)	Used Capacity (GB)	Available (GB)	Previous to Build out

## Site Survey and Planning worksheet FAS Config tab

As part of your Site Survey and Planning worksheet, you should have a tab containing information on your FAS configuration.

The following is an example of how to set up your FAS Config tab.

Cluster Name	Cluster Management IP Address	Cluster Management Credentials Available	ONTAP System Manager Host	
			IP Address	Credentials Available

Network Ports					
Node	Interface Name	Port type	Port speed	VLAN Name/ID	IFGRP

SVM Name	Type	Protocols	Aggregate	SVM Root Volume

SVM	Volume	Aggregate	Size	SAN
			LUN Name	LUN Size

SVM Network Interfaces					
SVM	Interface Name	Interface Role	IP address/Netmask	Home Node/Home Port	Failover Group

SVM FCP Target Ports					
SVM	FCP Port Name	WWPN	WWNN	Home Node	Home Port

Node FCP Initiator Ports					
Node Name	FCP Port Name	WWPN	WWN	Home Node	Home Port

## Site Survey and Planning worksheet SDS CLI Scripts tab

As part of your Site Survey and Planning worksheet, you should have a tab containing information on your SDS CLI scripts.

The following is an example of how to set up your SDS CLI Scripts tab.

Controller 1	Controller 2
vol size vol0 aggr0 108g	
snap reserve bootcampvol 0	
snap reserve vol0 20	
snap autodelete bootcampvol on	
snap autodelete bootcampvol commitment try	
snap autodelete bootcampvol trigger volume	
snap autodelete bootcampvol target_free_space 20	
snap autodelete bootcampvol defer_delete user_created	
snap autodelete vol0 on	
snap autodelete vol0 commitment try	
snap autodelete vol0 trigger volume	
snap autodelete vol0 target_free_space 20	
snap autodelete vol0 defer_delete user_created	
vol autosize bootcampvol on	
vol autosize vol0 on	
vol options bootcampvol try_first volume_grow	
vol options bootcampvol fractional_reserve 100	
vol options vol0 try_first volume_grow	
vol options vol0 fractional_reserve 100	
qtree security /vol/bootcampvol unix	
qtree security /vol/vol0 ntfs	

Controller 1	Controller 2
snap sched bootcampvol 0 0 0	
snap sched vol0 0 2 6@8,12,16,20	
#LUN mapping skipped for /vol/qavol_narayan/testlun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm25_boot_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm25_data1_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm25_data2_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm26_boot_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm26_data1_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm26_data2_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm27_boot_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm27_data1_lun since LUN is not mapped to an iGroup.	
#LUN mapping skipped for /vol/bootcampvol/dm27_data2_lun since LUN is not mapped to an iGroup.	

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