

# SwiftStack on Cisco UCS

## Starter Configurations for Backup & Archiving

If you're looking for a more cost-efficient, reliable, scalable, and easier to use solution for backup, archiving and recovery, object storage is an excellent destination target. Traditionally, backup applications needed disk storage to emulate tape or be locally mounted to the media server. Now, leading backup applications like Veritas NetBackup support object storage APIs, enabling them to natively utilize cloud storage.

As a backup target, SwiftStack on UCS eliminates storage silos by allowing you to start small and seamlessly scaling capacity to many petabytes, all in a single namespace. Built-in data replication allows you to designate where your data needs to live to ensure backup images and archives are available even if a server, site, or network become unavailable.

For Enterprises looking to backup on-premises or across data centers in the most modern, scalable, and cost-efficient way, SwiftStack on UCS will allow you to protect more data while driving out significant capital and operating costs.

### Benefits Include:

- Leverage high-capacity and low-cost SAS or SATA disk drives
- Start small and scale to many petabytes within a single namespace, without reducing performance
- Cluster nodes can exist in different geographical locations for automatic offsite protection and disaster recovery
- Storage policies can be configured to handle some backup data differently than others

### Highlights

**Use case:** Backup/archive

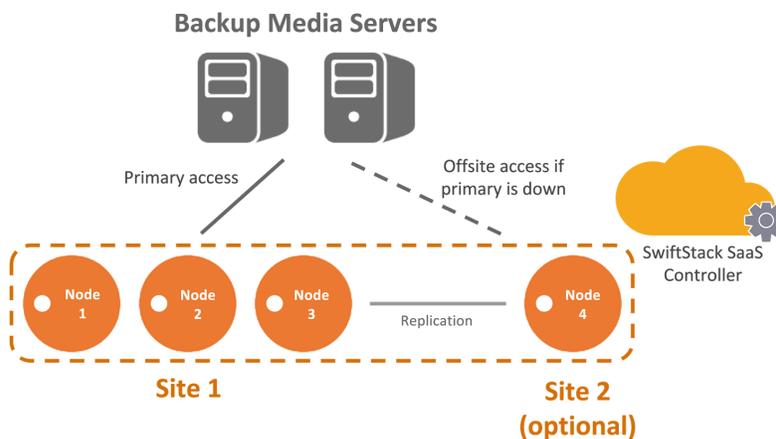
**Usable capacity:** 120TB, 240TB, 480TB

**Starting # nodes:** 3

**Protection method:** Replicas

**Number of full copies:** 3

**Offsite protection option:** Yes



# VERITAS

Veritas NetBackup version 7.7.1 or later supports accessing SwiftStack storage using the S3 API.

<http://www.veritas.com/docs/000025228>

Starter SwiftStack configurations, such as these configurations, have each SwiftStack service (Proxy, Account, Container and Object) running on each node. When scaling the cluster, services like Proxy for example can be dedicated to new nodes to increase performance independent of capacity. New nodes do not need to have the same configuration as initial nodes. To further simplify the solution, the SwiftStack SaaS controller is used, giving you management access to your cluster no matter where you are.

## Hardware Configuration



Below is specific hardware configuration information that your Cisco technology partner can use to acquire the specific devices needed to get going. SwiftStack has been designed from the ground up to utilize a wide range of hardware options and Linux operating systems so you have the most optimal solution for your environment.

Category	Hardware	Qty	Part Number
Servers	Cisco UCS C3260 server nodes with 62 available drive bays	3	UCSC-C3X60-SVRN8
	Cisco UCS C3260 System IO Controller with VIC 1300 incl.	3	UCSC-C3260-SIOC
	Reversible CMA for C240 M4 ball bearing rail kit	3	UCSC-CMA-M4
	KVM local IO cable for UCS servers console port	3	N20-BKVM
CPU	2 Intel Xeon E5-2620 v2 6-core CPUs per server	<i>n/a</i>	<i>Included with server</i>
Memory	256GB RAM per server	<i>n/a</i>	<i>Included with server</i>
Data Storage Drives	120TB usable - 1 row of 8TB NL-SAS 7200 RPM drives (14 total)	3	UCSC-C3X60-14HD8
	240TB usable - 2 rows of 8TB NL-SAS 7200 RPM drives (28 total)	3	UCSC-C3X60-28HD8
	480TB usable - 4 rows of 8TB NL-SAS 7200 RPM drives (56 total)	3	UCSC-C3X60-56HD8
Other Drives	UCSC C3X60 480GB Boot SSD (Gen 2) for OS and account/container databases	6	UCS-C3X60-G2SD48
Storage Software	120TB base - 1 year subscription; support included	1	L-CSCO-SS-120BASE
	Additional 120TB (240TB total)	1	L-CSCO-SS-120INC
	Additional 360TB (480TB total)	1	L-CSCO-SS-360INC
Operating System	Ubuntu 12.04 LTS or 14.04 LTS Server 64-bit Red Hat 6.6, 6.7, 7.1, or 7.2 Server 64-bit CentOS 6.6, 6.7, or 7.1 Server 64-bit		
Network	2 10GbE ports per server; 6 free 10GbE ports on the network for cluster and application connectivity		
Controller	SwiftStack Controller As-a-Service; no hardware needed		

To try SwiftStack for free, go to <https://www.swiftstack.com/try-it-now/>.

For additional assistance or to learn more, always feel free to contact us. We're here to help.

**Phone** - (415) 625-0293

**Email** - [contact@swiftstack.com](mailto:contact@swiftstack.com)

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