

Technical Requirements

Active Circle Solution

Version 4.6

Abstract

This document provides a comprehensive list of the hardware and software compatibility and requirements for the Active Circle Solution and this options.

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Server and Network Requirements

The performance of an Active Circle server, or Node, is primarily dependent on the hardware used and the network to which it is connected. The following sections lists some recommendations and are based on typical configurations used by our customers.

Servers

The table below shows the minimum hardware requirements for an Active Circle server.

Element	Configuration
Architecture	X86 - 64 bits
CPU	One quad-core processor
RAM	32 GB
Networking	1-port Gigabit Ethernet – internal network 1-port Gigabit Ethernet – client interface
Controllers	Dedicated RAID 5 disk controller card, 1 GB Cache (non-volatile) Dedicated Tape Library controller card
Disks	8 disks in RAID 5 for the operating system, metadata and cache
Remote Access	Dedicated interface to enable remote troubleshooting
UPS	Uninterruptable power supply



Important

The servers should be reserved exclusively for Active Circle use.

Network

The recommended network configuration is:

- Ethernet 1 Gb/s Full Duplex for a LAN
- 2 Mb/s for a WAN connection between sites

Operating Systems

Nodes

An Active Circle server (or Node) can be installed on these operating systems:

Operating System	Minimum Version
GNU/Linux	CentOS Linux 7 (<i>free distribution</i>)
GNU/Linux	Red Hat Enterprise Linux 7 (<i>commercial distribution</i>)



Note

The CentOS Linux 6.X operating system is only supported for existing system.

Storage Devices


Disks

Any non-removable storage device recognized by the host operating system can be used with Active Circle: Solid-State Drive (SSD), Serial Attached SCSI (SAS), Serial ATA (S-ATA), and Fibre-Channel (FC-AL), for example.

All storage devices connected to an Active Circle Node can be used, whether it is directly attached or is located in a bay accessible via a SAN.

For improved performance and reliability, Active Circle recommends a configuration of:

- 8 SAS 15 Ktpm disks in RAID 5 for cache
- 3 SSD disks in RAID 5 is recommended for store metadata



Note

If you wish to place the operating system on separate disks, Active Circle recommends adding two disks in RAID 1 for the operating system, in addition to the others disks.

Tapes

The table below lists the tape drives that are supported by Active Circle:

Technology	Model
LTO-2	HP Ultrium 460 IBM 3850
LTO-3	HP Ultrium 960 IBM LTO-3
LTO-4	HP Ultrium 1840 IBM LTO-4
LTO-5	HP Ultrium 5 IBM LTO-5
LTO-6	HP Ultrium 6 IBM LTO-6
LTO-7	HP Ultrium 7 IBM LTO-7
SAIT	Sony S-AIT1 SDZ-130/L
SDLT	Quantum SDLT 600

Tape Libraries

The table below lists the currently supported tape libraries and their manufacturers.

Manufacturer	Model	Number of slots
Quantum	Scalar 24	24
	Scalar i3	25 to 200
	Scalar i6	25 to 800
	Scalar i40	25 to 40
	Scalar i80	50 to 80
	Scalar i500	41 to 409
	Scalar i6000	100 to 5322
Dell	124T	16
	TL2000	24
	TL4000	48
	ML6000 series	41 to 225
Grau	Data Storage ITL series	21 to 10240
	FlexStor II	8
HP	SSL1016	16
	MSL 4048	48
	MSL 6480	80 to 560
	MSL 8096	96
	VTL VLS6510 (MSL6000 emulation)	30 to 240
	EML E-series	71 to 505
	ESL G3	100 to 5000
IBM	TS2900	9
	TS3100	24
	TS3200	48
	TS4500	550 to 23170
Overland Data	ArcVault	12 to 24
	Neo 100s	9
	Neo 200s	12 to 24
	Neo 400s	48
	Neo 2000	30 to 240
	Neo 4000	60 to 240
	Neo 8000	500 to 1000
	Neo XL-Series	560
Sony	PetaSite S200	200 to 2988
Spectra Logic	T50e	50
	T950	950 to 10050
StorageTek (Oracle-Sun)	SL 150	30 to 300
	SL 500	30 to 575
	L 700	678 to 1344
Tandberg Data	StorageLoader T24	12 to 24
	StorageLoader T40	24 to 40
	StorageLoader T80	40 to 80



Note

For support of any library not listed above, please contact Active Circle.

Protocols

File access is provided by the following protocols:

- SMB V1
- SMB V2
- NFS V3
- FTP
- FTPS

The Administration Tool and File Explorer client applications can be run on any of the following platforms running Java Webstart:

- Microsoft Windows
- GNU/Linux/UNIX
- Mac OS

The Active Circle Command Line Client will work on any of the above platforms.

Supervision is assured via SNMP, e-mail alerts (SMTP), or through the Administration Tool.

Authentication: Active Circle supports the following user identification protocols:

- LDAP or LDAPS: Microsoft Active Directory, OpenLDAP
- Network Information Service (NIS)
- NT4 domain
- Active Circle local directory

Option: Active Media Connector

Active Circle provides an API based on REST web services, called Active Media Connector. The Active Circle API is a web application running in a Java application server. It requires the installation of a database. The table below lists the software necessary for installing and running the API.

Table 1. Prerequisites for the Active Media Connector

Type	Software
Operating System	CentOS Linux 7.0 or higher
Java	Java 8
Application Server	Apache Tomcat 7
Database	PostgreSQL
Storage System	Active Circle version 4.6 or higher



Tip

The AMC can be installed on a dedicated server or on one of the Active Circle nodes. It can also be installed on the same machine as the AME and/or the ADM web applications.



Note

The CentOS Linux 6.X operating system is only supported for existing system.

Option: Active Media Explorer

The Active Media Explorer (AME) is a web-based application using standard technologies (PHP, MariaDB, Apache). It is compatible with most major browsers. No client installation is necessary.

Table 2. Prerequisites for the Active Media Explorer

Type	Software
Operating System	CentOS Linux 7.0 or higher
Storage System	Active Circle version 4.6
API	Active Media Connector version 4.6
Web Server	Apache with h264 module
Database	MariaDB
PHP	PHP version 5



Important

The AME requires a minimum of 2 TB of disk space on at least one Active Circle nodes and the corresponding licenses for “Managed TB on disk”.



Tip

The AME can be installed on a dedicated server or on one of the Active Circle nodes (depending on expected load). It can also be installed on the same machine as the AMC and/or the ADM web applications.



Note

The CentOS Linux 6.X operating system is only supported for existing system.

Option: Active Data Mover

The Active Data Mover is a web-based application which is based on the Active Media Connector. It is compatible with most major browsers. No client installation is necessary.

Table 3. Prerequisites for the Active Data Mover

Type	Software
Operating System	CentOS Linux 7.0 or higher
Java	Java 8
Application Server	Apache Tomcat 7
Storage System	Active Circle version 4.6 or higher
API	Active Media Connector version 4.6



Tip

The ADM can be installed on a dedicated server or on one of the Active Circle nodes. It can also be installed on the same machine as the AMC and/or the AME web applications.



Note

The CentOS Linux 6.X operating system is only supported for existing system.

For more information

For more information, contact your Active Circle representative or send an e-mail to customer-support@active-circle.com.

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