

Step by Step Installation of CentOS Linux 7 and Active Circle

Active Circle Storage System

Abstract

This document describes the step-by-step procedures for installing and configuring the CentOS Linux 7 operating system and the Active Circle software on a server in an Active Circle environment.

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Installing the Operating System

The procedures in this document describe the different stages of installation and setup of the CentOS Linux 7 operation system required to prepare for an installation of the Active Circle software.



Important

During the installation, you need to perform all the steps described in the installation and configuration procedures of this document.



Тір

For the installation, the server must have internet access.



Note

The CentOS minimal ISO CentOS-7-x86_64-Minimal-1708.iso is available from the CentOS web site or directly with this link.



Procedure for installing CentOS 7

Load the installation ISO or DVD. The welcome screen will be displayed.

```
Figure 1. Installation – Welcome Menu
```



If this is the first time you use the installation ISO or DVD, you can test it before proceeding with the installation.

Otherwise, select Install CentOS 7.



Figure 2. Installation – Start

æ			CENTOS 7 INSTALLATION
CentOS	WELCOME TO CEI	NTOS 7. J like to use during the insta	llation process?
	English	English 🔉	English (United States)
	Afrikaans	Afrikaans	English (United Kingdom)
	አማርኛ	Amharic	English (India)
	العربية	Arabic	English (Australia)
	অসমীয়া	Assamese	English (Canada)
	Asturianu	Asturian	English (Denmark)
	Беларуская	Belarusian	English (New Zealand)
	Български	Bulgarian	English (Nigeria)
	বাংলা	Bengali	English (Hong Kong SAR China)
	Bosanski	Bosnian	English (Philippines)
	Català	Catalan	English (Singapore)
	Čeština	Czech	English (South Africa)
	Cymraeg	Welsh	English (Zambia)
	Dansk	Danish	English (Zimbabwe)
	Deutsch	German	English (Antigua & Barbuda)
		D	
	L'		
			Quit Continue

Keep default language: English > English (United Sates). Click on Continue.



Figure 3. Installation – Installation Summary

Click on KEYBOARD to continue.





Figure 4. Installation – Keyboard

k	EYBO) Done	ARD L	AYOL	т							CENTOS 7 IN	STALLATION Help!
	Which	keybo	oard la	ayouts	would	l you like to	use on this	system? Yo	u may	y move any layout to the top of the list	to select it as the	default.
	English	(US)								Test the layout configuration below:		
											Layout switching r	not configured.
												Options
	+	_	^	~								

If needed, click on + to add a new keyboard.

Select and Add the keyboard you will be using. For example, select **French** for France.

For use your new keyboard, put it on the top of the list.

Click on **Done** to come back to the installation summary.



Figure 5. Installation – Defaut Value

	INSTALLATION S	UMMARY			CENTC	DS 7 INSTALLATION
CentOS	LOCALIZA	TION				
	\odot	DATE & TIME Americas/New York timezone	Ē	Er	EYBOARD nglish (US)	
	á	LANGUAGE SUPPORT English (United States)				
	SOFTWAR	E				
	0	INSTALLATION SOURCE		S M	OFTWARE SELECTION	
	SYSTEM					
		INSTALLATION DESTINATION Automatic partitioning selected	0		DUMP dump is enabled	
	∻	NETWORK & HOST NAME Not connected		s N	ECURITY POLICY	
			k		Quit	Begin Installation
				We w	von't touch your disks until y	ou click 'Begin Installation'.
	Please complete it	NETWORK & HOST NAME Not connected	Luing to the next step	We w	ECURITY POLICY o profile selected Quit ren't touch your disks until y	Begin Installation av click 'Begin Installa

Keep default value for:

Language Support	Eng
Installation Source	Loc
Software Selection	Min
Security Policy	No

English (United Sates) Local media Minimal Install No profile selected

Click on INSTALLATION DESTINATION to continue.



Figure 6. Installation – Installation Destination

	CENTOS 7 INSTALLATION 🖽 us Help!
Device Selection	
Select the device(s) you'd like to install to. They will be left untouched until you click on th Local Standard Disks	e main menu's "Begin Installation" button.
20 GiB	
ATA VBOX HARDDISK	
sda / 992.5 KiB free	
	Disks left unselected here will not be touched.
Add a disk	
	Disks left unselected here will not be touched.
Patitioning	
Automatically configure partitioning. I will configure partitioning.	
I would like to make additional space available.	
Encryption Encrypt my data. You'll set a passphrase next.	
Full disk summary and boot loader	1 disk selected; 20 GiB capacity; 992.5 KiB free <u>Refresh</u>

The type and size of the partitions depend on your environment. Please consult with an Active Circle systems engineer to validate the configuration for the partitions. Only the system partitions will be configured at this stage of the installation (partitions specific to Active Circle will be created later).

Select your device, click on radio button I will configure partitionning. and then on Done.



Figure 7. Installation – Manual Partitioning

	CENTOS 7 INSTALLATION us Helpi
 New CentOS 7 Installation You haven't created any mount points for your CentOS 7 installation yet. You can: Click here to create them automatically. Create new mount points by clicking the '+' button. New mount points will use the following partitioning scheme: LVM + - C 	When you create mount points for your CentOS 7 installation, you'll be able to view their details here.
AVAILABLE SPACE 20 GiB TOTAL SPACE 20 GiB	Parat All
T BOING OCHCE SCIELLEN	Reset Au



Table 1. Suggested system partitions

Mount Point	Size	Туре
/boot	250 MB	ext2
1	Minimum 60 GB	ext4
(None)	SWAP 4GB	swap

Create partitions by clicking on the + button.

Figure 8. Installation – Partitioning after manual configuration

	U STA	<i>₽</i>	CENTOS 7 INSTALLATION
New CentOS 7 Installation		sda1	
SYSTEM /boot sdal	250 MiB 📏	Mount Point: /boot	Device(s):
/ sda2	15.75 GiB	Desired Capacity:	ATA VBOX HARDDISK (sda)
swap sda3	4096 MiB	250 MiB	
			Modify
		Device Type:	
		Standard Partition Encrypt File System:	
		ext4 Reformat	
		Label:	Name:
			sdal
			Update Settings
+ - C		Note: Th be applie	e settings you make on this screen will not ed until you click on the main menu's 'Begin Installation' button.
AVAILABLE SPACE TOTAL SPACE 992.5 KiB 20 GiB			
<u>1 storage device selected</u>			Reset All

When you have finished creating partitions, click on <u>Done</u> to continue. You may receive warnings that the disks or partitions will be reformatted and be prompted before writing changes to disk. Accept changes to continue.

Click on KDUMP to continue.



Figure 9. Installation – kdump



Click on Enable kdump checkbox to disabled it.

Then click on **Done** to come back to the installation summary.

Click on NETWORK & HOSTNAME to continue.



Figure 10. Installation – Network & Hostname

NETWORK & HOST NAME		CENTOS 7 INSTALLATION
Ethernet (enp0s3) Intel Corporation 82540EM Ggabit Ethernet Controller (PRCV1000 MT Desktop	Ethernet (enpOs3) Disconnected Hardware Address 08:00:27:5E:35:57 Speed 1000 Mb/s	OFF
		₩.
+ - Host name: localhost.localdomain Apply		Configure Current host name: localhost

Click on OFF switch button to activate network.

Click on Configure... to configure network:

IPv4 Setting	Configure static address
IPv6 Settings	Configure method to "Ignore"

Change the host name and click on Apply.



Note

If Active Circle is installed on a single server, please set the hostname to "AML" for Active Media Library.

When you have finish click on Done to come back to the installation summary.

Click on DATE & TIME to continue.



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Figure 11. Installation – Date & Time

Select the time zone of the installation location, using the map or the list Region & City.



11:24 PM

 \sim \sim \sim

Important

• 24-hour

AM/PM

The NTP is required for Active Circle. Please check that Network Time is enabled.

When you have finish click on Done to come back to the installation summary.



	INSTALLATION S	UMMARY		CENTOS 7 INSTALLATION
CentOS	LOCALIZA	TION		
	\odot	DATE & TIME Europe/Paris timezone		KEYBOARD French, English (US)
	á	LANGUAGE SUPPORT English (United States)		
	SOFTWAF	RE		
	0	INSTALLATION SOURCE	4	SOFTWARE SELECTION Minimal Install
	SYSTEM			
	2	INSTALLATION DESTINATION Custom partitioning selected	Q	KDUMP Kdump is disabled
	÷	NETWORK & HOST NAME Wired (enp0s3) connected		SECURITY POLICY No profile selected
				•
				Quit Begin Installation
				we won't touch your disks until you click Begin Installation .

Figure 12. Installation – Installation Summary

Your server is now ready to install. Click on Begin Installation to continue.

Figure 13. Installation Progress



The copying of files and installation will begin, and the progress is shown on the screen Click on ROOT PASSWORD



Figure 14. Installation – Root Password

				CENTOS 7 INSTALLATION
×	The root account is used for admi	nistering the system. Enter a password for the	root user.	
	Root Password:			
	Carlina		Empty	
	Confirm:			
A The password is empty. You w	vill have to press Done twice to confirm			

Specify the password for the root account by typing a password in the **Root Password** and **Confirm** fields. Use "activec" as default unless you want to use a specific password.

Click twice on Done to come back to the installation progress.

Click on USER CREATION to continue.



Figure 15. Installation – User Creation

CREATE USER		CENTOS 7 INSTALLATION
Done		🖽 fr Help!
Full name	[
	·	
User name		
	$\ensuremath{\text{Tip}}\xspace$: Keep your user name shorter than 32 characters and do not use spaces.	
	Make this user administrator	
	Require a password to use this account	
Password		
	Empty	
Confirm password		
	Advanced	
	λ.	
🛕 The password is empty.		

Create a user called "acsupport", which will be used for remote maintenance:

- Full name acsupport
- User name acsupport
- Password acsupport

Keep default value for the differents options.

Click twice on **Done** to come back to the installation progress.





Figure 16. Installation – End

*	CONFIGURATION	CENTOS 7 INSTALLATION
CentOS	USER SETTINGS	
	ROOT PASSWORD Root password is set	USER CREATION User acsupport will be created
		•
		×,
	Complete!	
		CentOS is now successfully installed, but some configuration still needs to be done. Finish it and then click the Finish configuration button please.
		Finish configuration

The server need to make some configuration before restart for finish installation process. Click on Finish configuration to continue and then Reboot.



Procedure for configuring the base

After reboot, the welcome screen will be displayed.

Figure 17. Bash Login



Log in with the root default credentials (root/activec) or with your own credentials.

Install the "FTP" command with the following:

yum install ftp -y

Download the postinstallation script from the Active Circle FTP server. It is located in the following directory:

/downloads/Tools/CentOS-7/postinstall_CentOS-7.sh

ftp ftp.active-circle.com

```
cd /downloads/Tools/CentOS-7
```

get postinstall_CentOS-7.sh

Make executable the postinstallation script:

chmod +x postinstall_CentOS-7.sh



Launch the script with the following:

./postinstall_CentOS-7.sh

The script will install automatimatically the prerequisites for Active Circle and reboot at the end.

Note

For advanced administrator only: you can choose to not install graphical interface by launching script with "--nogui" option:

./postinstall_CentOS-7.sh --nogui

Next, skip to the "Configuring File System" section.

Тір

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During the install, three scripts are added to facilitate operation:

- aclogvi to vi /activecircle/cell/data/Log/lastcell.txt
- aclogtail to tail -F /activecircle/cell/data/Log/lastcell.txt
- accheckup to run the Active Circle checkup script



After reboot, the gui login screen will be displayed.

Figure 18. GUI Login



Log in with the acsupport default credentials (acsupport/acsupport) or with your own credentials.



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1/4

Applications Places gnome-initial-setup fr Tue 12:43 📫 🌒 🕃 Welcome ,110 Welcome! Deutsch Deutschland English 🖌 United States Español España

France

مصر

日本

中国

Российская Федерация

ŝ

Figure 19. Gnome Initial Setup - Default Language

Keep English - United States as the default language.

Français

Русский العربية

日本語

汉语

Click on Next to continue.

🔀 gnome-initial-setup



Figure 20. Gnome Initial Setup - Default Keyboard

Applications Places gnome-initia	l-setup		fr	Tue 12:43	÷ •) 3
Previous	Typing				Next
	Typing Select your keyboard layout or an input me	thod.			A.
	Cameroon Multilingual (Dvorak)	Preview			
	Cameroon Multilingual (qwerty)	Preview			
	English (Australian)	Preview			
	English (Cameroon)	Preview			
	English (Canada)	Preview			
	English (US)	Preview			
	French	✓ Preview			
	I				
🔀 gnome-initial-setup					1/4

If needed adapt the default keyboard.

Click on Next to continue.



Figure 21. Gnome Initial Setup - Privacy



Click on ON Location Services to desactived it.

Then, click on Next to continue.



Figure 22. Gnome Initial Setup - Online Accounts



Don't connect your online accounts.

Click on Skip to continue.



Figure 23. Gnome Initial Setup - Ready to Go



Click on Start using CentOS Linux to continue.



Figure 24. Getting Started

🚸 Applications Plates Help				fr	Tue	17:06	u(1))	8
< >	Getting Started GNOME Help				≡	-	•	×
٤»								
Getting Started								
Use windows and workspaces	switch tasks	Respond to messages	8 = 0 -					
Common Tasks								
Browse the web	Change the date, time and timezone	Change the wallpaper						
Connect to online accounts	Respond to messages	Use the system search						
Use windows and workspaces	Get online	Launch applications						
Switch tasks								
GNOME Help								
	About							
😝 Getting Started							1	1/4

Click on X to close the tutorial and continue.



Figure 25. Home Page



Your OS is now ready for configuring Active Circle partitions.



Configuring File System

During installation, the system partitions needed for the operating system were created. Now, an additional set of partitions need to be created and configured specifically for use by the Active Circle storage system. This chapter provides an overview of the partition types, explains how to format them and describes how to mount file systems on the partitions.

Тір

Please contact an Active Circle systems engineer to validate the configuration of the Active Circle partitions.

You must be root to configure file system. Open a terminal and log in as root with this command: ${\tt su}\,$ –

Partitions used by Active Circle

This section describes the file systems used by an Active Circle node (server).

/activecircle

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This file system corresponds to the partition containing the binaries, configuration files and metadata that belongs to the Active Circle system.



Important

In Active Media Library (AML) configurations, you need to create an additional partition for storing the metadata of the second node (since both nodes will be running on the same server).

Name of partition: /bckactivecircle

This partition should be configured the same way as the /activecircle partition (size, formatting, mounting and fstab entry).

/cache

This file system corresponds to disk space used as a *buffer* in the Active Circle system. All the data stored in the archiving system pass through this temporary storage area.

Note

- The cache should be large enough to hold 1.5 times the total volume of files read and written in the short term (1 to 7 days).
- If very large files are being stored (hundreds of gigabytes), the cache must hold at least 1,5 times the size of the largest file that will be deposited.
- In a configuration with tape archiving without disk storage, the cache will hold all the data waiting to be archived.



Data Partitions for use in Active Circle Disk Pools

The size of the data partitions should be **maximum 16 TB**. Each partition needs to be defined by a **LUN** (logical unit number) and have a **label**. Each data partition should correspond to a disk volume.

The file system type should be **ext4** for optimal performance. Processing of commands like **fsck** is significantly faster on this file system compared to earlier types.

Local Partition. This is the standard case where the file system is available through a single server. A local partition is connected to a single Active Circle node and it must be accessible by the operating system on that server. The file system must be defined in the file /etc/fstab to ensure constant availability of the mount point with the prefix /data (this name is a suggestion).

Shared Partition. This will be the case where the file system is accessible by multiple servers in a SAN architecture. **The file system should NOT be declared in the file** / **etc/fstab**. Mounting and unmounting of shared partitions are managed solely by the activecircle service. The hardware architecture needs to be configured to give access to the LUNs from multiple nodes in an environment where the file system will be shared by the servers. This requires:

- A network with a **SAN** architecture
- A **zoning** configuration allowing shared access.

Multipath I/O environments are supported.



Important

Each shared partition must correspond to a LUN representing a single disk volume. This means that each partition must correspond to a separate device (or a device mapping in a multipath environment). The shared disk volumes must not be divided into further partitions using the operating system, as multiple partitions per volume is not allowed for shared storage configurations in Active Circle.



Note

The size of the different partitions should be determined with the help of an Active Circle system engineer, according to the expected usage.

Examples of Active Circle partition sizes:

/activecircle	500 GB for a configuration of 100,000,000 files.
/cache	2 TB to more than 6 TB , depending on the usage.
Partitions for disk pools	Minimum 1 TB — maximum 16 TB . Use LUNs of 4 TB as standard partition size.



Formatting Disk Volumes

This section describes the command options for formatting the three different types of partitions used by the Active Circle system.

```
/activecircle:
```

mkfs -t ext4 -i 10240 -L /activecircle /dev/sdv

where 'v' is the device letter of the disk volume (letters w-z used in the following commands).

/cache:

mkfs -t ext4 -i 10240 -L /cache /dev/sdw

File systems corresponding to the partitions to be attached to disk pools:

```
mkfs -t ext4 -j -i 5120000 -L /data1 /dev/sdx
mkfs -t ext4 -j -i 5120000 -L /data2 /dev/sdy
mkfs -t ext4 -j -i 5120000 -L /data3 /dev/sdz
(add more as needed)
```

File System Checking

To avoid performance and availability issues due to frequent file system checks on several partitions at the same time, you need to define parameters for when **fsck** should run full checks on shared partitions. Run the **tune2fs** command with the -c and -i options:

Partition 1:	tune2fs	-c	200	-i	200d	/device/path1
Partition 2:	tune2fs	-c	201	-i	201d	/device/path2
Partition 3:	tune2fs	-c	203	-i	203d	/device/path3
Partition nn:	tune2fs	-c	2 <i>nn</i>	-i	2 <i>nn</i> d	/device/path_nn

Explanation of the options:

- -c Specifies the number of mounts between each file system check by fsck
- -i Specifies the number of days between each file system check by **fsck**

As shown in the command examples, the values should be staggered for each partition, to avoid several partitions being checked at the same time. Run the **tune2fs** command for as many partitions as you need, while increasing the values by one for each partition. The settings specified above will make sure that an automatic forced full check on a partition will only be performed if there are at least 200 mounts or 200 days since the last check.



Mounting File Systems

When the file systems have been formatted, you need to make them available through mount points for each partition. Mounting should be performed automatically when the system is started. This section describes the necessary procedures.



Important

Data partitions used for shared disk pools should *NOT* be mounted by the operating system during server startup. Mounting of shared data partitions is handled automatically by Active Circle. The procedures in this section do not apply to file systems on shared data partitions.

Create the mount points (unless they already exist):

```
mkdir /activecircle
mkdir /cache
mkdir /data1
mkdir /data2
mkdir /dataN
```

Add the labels to the file /etc/fstab:

LABEL=/activecircle	/activecircle	ext4	noatime	1	2
LABEL=/cache	/cache	ext4	noatime	1	2
LABEL=/data1	/data1	ext4	defaults	1	2
LABEL=/data2	/data2	ext4	defaults	1	2

Mount all the partitions by typing the command: mount -a

Verify that the mounting was successful by typing the command: mount. All the partitions should be listed.

This completes the installation and configuration of the operating system.



Installing the Active Circle software

This section provides all the information required for installing the Active Circle storage system.

The installation package can be downloaded from the Active Circle FTP server. Contact your sales representative for more information.

Before proceeding with the installation of the Active Circle software, please verify the prerequisites described in the Active Circle Installation Guide.

Tip

You must be root to install the Active Circle software. Open a terminal and log in as root with this command: **su** -

Installation File Parameters

The installation distribution package is a binary file using this naming convention:

```
ac-<version>.bin
```

where "<version>" is the Active Circle distribution version.



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Important

Verify that the installation file can be executed. Run this command to make it executable:

chmod +x ac-4.6.1.bin

Installing the First Node

Setting up an Active Circle configuration (also called a 'circle') involves installing two or more Active Circle nodes. The first node is installed independently, while the second node needs to be created through the first node and then be installed on the other server using a reference obtained at the first node.

The installation of the first node allows you to define a number of general parameters that will apply to your Circle. Consequently, the installation process differs slightly from that of the subsequent nodes.

If you are installing two nodes on the same server in an Active Media Library (AML) configuration, the installation parameters are slightly different. Please see "Single Machine Configuration: Active Media Library" for more information.

Running the Initial Installation

Copy the installation package file to the server you are installing the software on. Open a terminal window, change to the directory to which you copied the installation file and run the following command. Replace the values for domain (-d) and node name (-c) according to your setup.

```
Jac-4.6.1.bin -s -i /activecircle -t /cache -m 4000 -d SubDomain-
A1.Domain-A-c node-01
```



The output will confirm the values of the parameters you specified:

```
Setup

-----

Installation path: /activecircle

Node name : node-01

Domain name : SubDomain-Al.Domain-A

Circle pack size : 32

Startup script : on

NAS temp dir : /cache

Node heap memory : 4000 MB

Locale : en_US.UTF-8

Do you want to continue? [yes or no]
```

If the information is correct, type **yes** and press **Enter**. Type **no** and press **Enter** to stop the installation.

The following lines (or something very similar) appear:

A series of messages will appear detailing the progress of the installation. When it is finished, you will see:

```
I Node setup succeeded

Active Circle setup completed

To start Active Circle, type "service activecircle start"
```



Circle Configuration: Installing Additional Nodes

Important

Before installing the Active Circle software on a new node, *you must first declare the new node* in the Active Circle Administration Tool. When you add a new node to an Active Circle configuration, a unique key to identify that node is generated by the system. This key is required when installing the software for a new node.

Declaring the Node in the Administration tool

Make sure Active Circle is already running on the initial node you installed.

1. Start the Active Circle Administration interface on the system where the first node is installed:

/activecircle/admin/bin/admin &

2. Log on to an administrator session:

```
Login: admin
```

Password: **1234** (default, see the *Active Circle Administration Guide* for how to change this)

- 3. Create the second node:
 - In the **Nodes** view, expand the domains tree.
 - Right-click on the domain or sub-domain of the first node and select **Create a Node** from the context menu.



• Type the name of the new node and validate with the OK button.

Create Node in Domain SubDomain-A1	x
Name node-02 Add the node to the Policy Management Ok Cancel	

• A key value is displayed by the application. Please keep this key (copy it by rightclicking on it with the mouse).

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Key of node-02	×
Key 27K6D2K_3VREGQF_2Q4RH0N_ZMGU9R9_3MIH4MJ_2LJQUB_2AKF3G2_XF70575 Please keep this key value. It will be asked to install the node. Copy	
ОК	

Running the installation on the second node

Copy the Active Circle installation package file (the same as was used for installing the first node) to the server you are installing the software on. Open a terminal window on the server and execute the following command, replacing the parameter values according to your environment:

./ac-4.6.1.bin -s -i /activecircle -t /cache -m 4000 -k <keyvalue>

The keyvalue for the option -k is the unique key provided by the Administration tool during creation of the node you are installing on.

The rest of the installation proceeds as described above in "Running the Initial Installation".

At the end of the process, you should receive the messages Node setup succeeded and Active Circle setup completed.

You can use the Administration tool to check that you can access the newly created resources. For more information on how to configure nodes, please refer to the *Active Circle Administration Guide*.



Single Machine Configuration: Active Media Library

It is possible to install and run multiple Active Circle nodes on a single server. This possibility is reserved only for archiving on LTO tapes in TAR format. To do this, you must follow a specific installation procedure and conform to certain constraints when managing these nodes. This procedure applies to the product **Active Media Library**TM (AML).



Note

A backup procedure for Active Circle metadata must be implemented on AML configurations to reduce the risk of data loss.

Installation Process

When installing the initial node on the server, you must perform a standard installation (as described in Installing the first node above). However, you should use **AML** as the name of the domain (-d) and **activenode** as the name of the node (-c). The command would then be:

Jac-4.6.1.bin -s -i /activecircle -t /cache -m 4000 -d AML -c activenode

Once you have installed the first node, you will need to declare the additional node in the normal way through the Administration Tool as described under Installing additional nodes. Use backupnode as the name of the node you create using the Administration Tool.

Once the second node is declared, you can install another instance of Active Circle on the same server where you installed the first node. The installation command would be:

./ac-4.6.1.bin -s -i /bckactivecircle -m 4000 -k <*keyvalue>* -S bckactivecircle



Important

Active Media Library is a bundled product with specific prerequisites. Please respect the indicated values for path, domain name, node name and service name for these configurations.



For more information

For more details on system configuration, shared partitions and Active Circle software installation options, see the *Active Circle Installation Guide*.

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

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