# **Quick Start Guide**

Arcserve<sup>®</sup> Live Migration



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https://www.arcserve.com/support

With Arcserve Support:

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- You can use our Live Chat link to instantly launch a real-time conversation between you and the Arcserve Support team. With Live Chat, you can get immediate answers to your concerns and questions, while still maintaining access to the product.
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- You can open a support ticket. By opening a support ticket online, you can expect a callback from one of our experts in the product area you are inquiring about.

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# **Chapter 1: Introduction**

Arcserve Live Migration simplifies the process of migrating data, applications and workloads. It allows you to move virtually any type of data or workload to cloud, onpremises or remote locations, such as the edge, with support for virtual, cloud and physical systems. An assured validation of the migrated workload completes the process enabling customers to continue operations without risks of losing data.

You can easily migrate:

From		То
On-premises	Cloud	
Cloud	Cloud	
Cloud	On-premises	
Physical	Physical	
Physical	Virtual	
Virtual	Virtual	

A quick overview of Live Migration is as follows:

- Allows you unlimited use of the Arcserve Live Migration technology powered by Arcserve Continuity Suite.
- Every source that you plan to migrate requires licenses.
- On expiry, new scenarios cannot be created, but existing ones will continue.
- Allows seamless access to the entitled software for a period of 90-days.
- For each license, Live Migration provides technical assistance for two incidents free of cost.

**Note:** Currently, we do not provide professional services to help you with implementation, deployment, and any other migration services. This guide provides instructions about the migration process. Additionally, you can browse through the information about migration process from the <u>Continuous Availability Bookshelf</u>. You can also contact our Technical support for any assistance regarding migration issues during the 90-day period.

# **About This Guide**

This guide directs you to all of the necessary information for configuring and running Arcserve Live Migration. It describes and provides instructions on how to perform the following procedures:

- 1. Provision VA on EC2/Azure/Hypervisor VM.
- 2. Create AWS/Azure account in RHA GUI.
- 3. Install CS.
- 4. Run scenario and wait for full sync.
- 5. Create scenario.
- 6. Install engine on Source.
- 7. Perform AR Test (optional).
- 8. Perform Switchover.

**Important!** This guide applies to replication, high availability and assured recovery products.

This guide focuses on the generic **Full System** replication and high availability solutions, but it also provides information about other application and database servers and high availability solutions.

For more detailed instructions involving scenarios tailored to specific applications such as Microsoft Exchange or SQL Servers, see the appropriate Operation Guide in the <u>Continuous Availability Bookshelf</u>.

### **Terminologies**

This document uses the following terminologies:

- Arcserve Live Migration is powered by Arcserve Continuity Suite.
- Appliance: This is a virtual machine that acts as the Replica server (the Arcserve Continuity Suite Engine should be installed here). If you are using a Hyper-V virtual platform, this field does not apply and is not available (appears dim).

#### Notes:

- If the Master is Windows 2008 or a later version, we recommend using Windows 2008 R2 as the appliance.
- If you are using Hyper-V as the destination platform, we recommend using Windows 2008 R2 as the appliance.
- Control Service: A component that orchestrates, manages, and processes the information flow.
- Engines: The Engine is a service that must be running before any scenario can start. It is installed on every server participating in any given scenario such as migration from the Master (source) to Replica (target) hosts.
- FSHA: The Full System High Availability feature is an extension to the existing full system scenario type where Arcserve Live Migration enables high availability of an entire Windows or Linux system into a VM running on a Hypervisor.
- Management Center: The Management Center consists of three components, none of which requires any manual installation. For more information, see <u>Management Center</u>.
- Master (Source): A Window or Linux workload that you want to migrate.
- PowerShell: The PowerShell is offered as an alternative if you do not want to manage the replication process using the Manager graphic user interface. It enlarges and facilitates the capabilities of the CLI provided in previous versions, and it supports Continuous Availability operations. For more information, see <u>PowerShell</u>.
- Replica (Target): The destination from where your workload runs after migration.

- Scenario: A scenario is the basic unit of operation and it consists of a definition set. For more information, see <u>Creating Continuous Availability Scen-</u> arios.
- Switchover: The cutover to the newly migrated workload from where the operations can begin.
- Synchronization: The process of making the set of files to be protected identical on the Master and Replica servers. It is usually necessary to synchronize the Master and Replica as the initial step of a replication scenario. For more information, see How Synchronization Works.
- Virtual Platform Host: This is the machine that hosts the Appliance VM acting as Replica server.

# **Software Compatibility**

For more information about compatibility, see the <u>Compatibility Matrix</u>.

# **Related Documentation**

For information related to migration and replication, use this guide along with the following:

- Arcserve Continuous Availability Administration Guide
- Arcserve<sup>®</sup> Continuous Availability Installation Guide
- Arcserve Continuous Availability for Virtualized Server Environments Operation Guide

To view all Continuity Suite guides, see <u>Arcserve Continuous Availability Bookshelf</u>.

# **Chapter 2: Live Migration Components**

This section contains information about the following components that need to be configured and deployed before migration.

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## **Control Service**

#### Follow these steps:

- To download Live Migration ISO to a computer where you plan to install Control Service, click <u>here</u>. For more information about the prerequisites for Control Service, see <u>Control Service Installation Considerations</u>.
- 2. Navigate to the mounted ISO and run the Setup.exe file.

N 🛐 N This DC N DVD Drive (Fr) ContinuitySuite								
	unc							
Name	Date modified	Туре	Size					
Bin	9/27/2019 1:19 AM	File folder						
BMR	9/27/2019 1:51 AM	File folder						
Destrib	9/27/2019 1:19 AM	File folder						
Install	9/27/2019 1:19 AM	File folder						
UNIX_Linux	9/27/2019 1:40 AM	File folder						
📓 autorun.inf	3/12/2018 5:45 AM	Setup Information	1 KB					
🧔 main.ico	3/12/2018 5:45 AM	lcon	63 KB					
🔜 Setup.exe	3/12/2018 5:45 AM	Application	131 KB					
Setup.ini	3/12/2018 5:45 AM	Configuration sett	1 KB					

3. In the installation screen, select Install components, and then select Control Service. Follow the instructions of the installation wizard.



The Control Service component orchestrates the migration process of workloads from master to replica.

**Note:** We recommend that you install the Control Service on a separate server. You can install Control Service on your local workstation. However, if this workstation is disabled or offline, you cannot monitor or manage your scenarios.

For more information, see <u>Install the Arcserve Continuous Availability Control Ser</u>vice.

## Manager

Open the Arcserve Continuity Suite Overview page, and then click the Scenario Management link. For more information, see <u>Install and Open the Management</u> <u>Center and Manager</u>. The system automatically installs the Manager on your local computer. You can open this component from any workstation that has a browser and network connectivity to the Control Service.

# Engines

Open the Manager and create a new scenario using the Scenario Creation Wizard. During the scenario creation, the system allows you to install the Engine on the Master and Replica hosts that participate in the migration scenario. The Engine must be installed on each Master and Replica server that participates in the scenario. For more information, see <u>How to Install the Arcserve Continuous Availability</u> Engine.

# Migration

This section provides instructions on the Arcserve Live Migration process.

#### **Overview**

Arcserve Live Migration automatically synchronizes files, databases, and applications on Windows and Linux systems with a second physical or virtual environment located on-premises, at a remote location, or in the cloud. After synchronization, changes are replicated in real time to ensure the source and target are in sync prior to the migration.

Encryption enables secure data transfers between local systems and remote locations without the need for a VPN, and automated network redirection makes the switchover process seamless with push-button cutover to ensure availability to the new production environment.



#### **Requirements**

Before you migrate, make sure to meet the following requirements:

Arcserve Live Migration supports both Windows and Linux for Full System scenario. If Master is Windows, then the Virtual Appliance (VA) must be Windows; if Master is Linux, then the VA must be Linux as well.
 For supported Operating Systems and platforms, refer to <u>Compatibility Matrix</u>.

**Note:** Before deploying Arcserve Live Migration scenarios, refer to <u>Lim</u>-<u>itations section in Release Notes</u>.

For Windows or Linux migration to Azure or AWS, register to the Cloud account with Arcserve Live Migration interface before creating FSHA scenarios. For more information, see <u>How to Manage Cloud Account</u>.

# **Creating Live Migration Scenarios**

Arcserve Live Migration protects servers in the context of user-defined scenarios. A scenario is the basic unit of operation and it consists of a definition set that includes:

- The type of application or database server to be protected.
- The type of data protection solution.
- Special tasks, such as Integrity Testing for Assured Recovery.
- The connection details of the Master and Replica hosts.
- The directories, sub-directories, databases and files that will be replicated and their location on the Master and the Replica.
- Configurable properties of the scenario and the Master and Replica hosts, which affect different settings and operations, such as, synchronization method, replication mode, spool size, report and event handling rules, and more.
- Recovery and Switchover/Failover parameters.

Each scenario defines a replication tree that sets the flow of information from the Master server to any number of designated Replicas. It establishes the data recovery procedure, and, if applicable, the switchover parameters. You can configure, add or remove servers from a scenario and select or modify directories. This enables easy, complete control of the migration process over any network, large or small. Each scenario is saved as an XML file.

# **Migrating Full System to Virtualization Platforms and Cloud**

Arcserve Replication and High Availability supports both Windows and Linux for Full System scenario. If Master is Windows, then the Virtual Appliance (VA) must be Windows. If Master if Linux, then the VA must be Linux as well. For supported Operating Systems and platforms, refer to Arcserve Replication and High Availability 18.0 Compatibility Matrix.

Full system scenarios require three hosts instead of two:

- Master server is the host that you want to protect. This host can be physical or virtual. For more information about configuring the Master server, see <u>Configuring Master Server</u>.
- Appliance is a VM where you installed the Arcserve Replication and High Availability Engine. For more information about configuring Appliance, see Configure Virtual Appliance (VA) Server.
- Virtual Platform Host is the server where the Appliance VM is running. For more information about configuring Virtual Platform Host, see <u>Configure Vir-</u> <u>tualization Platform and Cloud</u>.

Consider the following when planning Full System scenario:

Engine Service Account: For Windows, Local System account is recommended for Continuity Suite Engine service Log On account for both Master and Replica/VA. You can also use Domain administrator or local administrator account. Make sure that such account has Full Control permission on all protected volumes, spool directories, and virtual disks mount points on Replica/VA, which is Engine <installation dir>\vm by default.

For Linux, Continuity Suite Engine runs with root account after installation, and cannot be changed.

Engine package dependencies on Linux: Continuity Suite engine installation on Linux requires dependent packages pre-installed, or a proper yum repository is configured. If you want to manually install packages required by Continuity Suite engine, run the following command to get the list of required packages:

rpm -qpR arcserverha\_rhel7\_x86\_64.rpm

# **Migrating Full System Scenarios for Hypervisors**

The following procedure applies to vCenter, ESX, Hyper-V, XEN, and KVM Full System scenarios.

# To create full system scenarios for all platforms except Hyper-V, follow these steps:

1. Open the Manager and choose Scenario, **New** or click the **New Scenario** button to launch the wizard.

The Welcome screen opens.

2. Choose **Create a New Scenario**, select a Group from the list, and then click Next.

0	Scenario Creation Wizard							
<ul> <li>Welcome</li> <li>Product Type</li> <li>Scenario Setup</li> </ul>	Select Server and Product Type Select a licensed server type, product type and a required task below. If the desired option is not listed, please do one of the following: If you have an appropriate license key, exit the wizard by clicking Cancel and then click Help, Register. If you do not have an appropriate license key and you are interested in obtaining one, please contact your software provider.							
Scenario Verification Run Scenario	Select Server Type  File Server  Custom Application  Custom Application  Custom Server  Custom S							
	Select Product Type Replication and Data Recovery Scenario (DR) High Availability Scenario (HA) Content Distribution Scenario(CD)							
	Integrity Testing for Assured Recovery (AR) Integration Options None Arcserve Backup							
	<u>B</u> ack <u>N</u> ext <u>F</u> inish <u>C</u> ancel							

The Select Server and Product Type screen opens.

3. Select Full System, choose HA or DR and the desired Tasks on Replica, and then click **Next**.

The Master and Replica Hosts dialog opens.

ø	Scenario Creation Wizard						
<ul> <li>✓ Welcome</li> <li>✓ Product Type</li> <li>Scenario Setup</li> </ul>	Master and Replica Hosts Enter the hostname or IP address for the Master (source) host. Enter the hostname or IP address for Vitual Platform host which hosts vitual machines. (Not applicable for Hyper-V scenarios) Enter the hostname or IP address for the Appliance host which is one of vitual machines hosted by Vitual Platform and with Arcserve Continuity Suite Engine installed.						
Scenario Verification	Master Setting						
Run Scenario	Scenario Name FSHA-L to Hypervisor						
	Master Hostname/IP Master OS Type           10 60.18.          Port         25000         Linux         V						
	Replica Setting         Server Type         ESXi Server         Virtual Platform Hostname/IP         10:60:          Port       443         O TLS       SSH         Appliance Hostname/IP         19:60.18.          Port       25000						
	<ul> <li>Assessment Mode</li> <li>✓ Verify Arcserve Continuity Suite Engine on Hosts</li> </ul>						
	Back Next Einish Cancel						

- 4. Enter description in the screen as given below and click **Next** when done:
  - Scenario Name: Type a Scenario Name. The default value is the scenario type, for example, Full System.
  - Master Hostname/IP and Port: Specify the physical machine you wish to protect or browse to select one. Enter its port number.
  - Server Type: Select the virtual platform of the machine that will host the VM, for example, ESX Server.
  - Virtual Platform Hostname/IP and Port: Specify the physical machine running the virtual machine platform you selected in Server Type or browse to select one. Enter its port number.
  - (Optional) SSL Connection: Click this option if you wish to specify an SSL port number instead. You may do so for all virtual platform types except Hyper-V.
  - Appliance Hostname/IP and Port: Specify the virtual machine hostname or IP address of the VM to act as the Replica server in this scenario. If the server type is Hyper-V, this field is not available.
  - Verify Arcserve Continuity Suite Engine on Hosts: Enable this option to confirm the latest version of the Engine is installed on all servers specified in the scenario.

Enter the appropriate credentials for the specified machines, if prompted.

Wait while verification completes. If desired, you may install the Arcserve Continuity Suite Engine on any server. If errors occur, try resolving them by clicking Verify Again. Contact your security administrator if any RPC Services errors occur.

5. Click **Next** when the Engine is verified on hosts.

The Volume Setting dialog opens. Arcserve Continuity Suite auto-discovers the volumes on the specified Master server.

Ø	Scenario Crea	ation Wizard			_ <b>D</b> X
<ul> <li>✓ Welcome</li> <li>✓ Product Type</li> <li>✓ Scenario Setup</li> </ul>	Please select one or more volumes for the physica the sub folders and files in the excluded folder will	Volume Se Il machine you want prot be excluded as well.	<b>tting</b> tected. To see more de	etailed information, c	lick on a volume. All
<ul> <li>Host</li> <li>Engine Verification</li> <li>Volume Setting</li> <li>Resource Pool Selection</li> <li>Storage Selection</li> <li>Scenario Properties</li> <li>Hosts Properties</li> <li>Switchover Properties</li> <li>Scenario Verification</li> <li>Run Scenario</li> </ul>	Volumes to be protected		Property File System T. Mount Point Boot Volume LVM Volume Total Size Free Size	Value xds /boot Yes No 1024 MB 844 MB	
		<u>B</u> ack	Next	<u>F</u> inish	<u>C</u> ancel

- 6. Specify the volumes you want to protect. (Optional) Enable the option, Enable Exclude Directory and Files. This option filters pagefile.sys, hiberfil.sys, System Volume Information, Recycler, and Recycled files and folders by default.
- 7. Click Next.

You may be prompted to enter credentials for the server.

The Resource Pool Selection screen opens.

8. Click Next.

The Storage Selection screen opens.

0		Scenario Creatio	n Wizard			_ <b>D</b> X
<ul><li>✓ Welcome</li><li>✓ Product Type</li></ul>	Select the location where	to store the virtual machine.	Storage S	election		
<ul> <li>Scenario Setup</li> <li>Host</li> <li>Engine Verification</li> <li>Volume Setting</li> <li>Resource Pool Selection</li> </ul>	Name [datastore1 (1)] [datastore2]	Type VMFS VMFS	[ [	Capacity 1.8 TiB 12.7 TiB	Free 1.5 TiB 8.2 TiB	
<ul> <li>Storage Selection</li> <li>Scenario Properties</li> <li>Hosts Properties</li> <li>Switchover Properties</li> <li>Scenario Verification</li> <li>Run Scenario</li> </ul>	< Disk Provisioning ✓ Allocated and	commit space on demai	III nd (Using Dyna	umic Disk)		>
			Back	Next	Finish	Cancel

9. Specify where the virtual machine must be stored. Enable the option, Allocate and commit space on demand, if desired and click **Next**.

The Scenario Properties dialog opens.

10. Change properties, as desired and click **Next**. For more information, see the Arcserve Continuity Suite Administration Guide.

The Master and Replica Properties dialog opens.

*						_				
	Master and Replica Properties									
Velcome	The Master and Repice properties are configured here. You can also configure these properties after the completion of the wizard steps. The recommended default values are already listed. Refore channing these values release refer to the Answer Continuity Suite Administration Guide									
<ul> <li>Product Type</li> </ul>	The recommended derault values are area	ay inted, before changing	g mese values, please reler to the Arcserve Continuity Suite Aurithi	stration Guide.						
<ul> <li>Scenario Setup</li> </ul>										
✓ Host	Master Properties	Value	Replica Properties		Value	^				
<ul> <li>Engine Verification</li> </ul>	Host Connection		Virtual Platform		10.60.18.63					
✓ Volume Setting	Replication		Port		443					
✓ Resource Pool Selection	E Spool		SSL Connection		1					
✓ Storage Selection	Event Notification		E Storage		[datastore2]					
<ul> <li>Scenario Properties</li> </ul>	E Reports		Using Dynamic Disk		On					
Hosts Properties			Resource pool			≡				
Switchover Properties			Setting							
Scenario Verification			CPU cores		2	- 11				
Run Scenario			Memory size (MB)		4096	- 11				
			Virtual Machine Name		10.60.18.158_2691655627_2					
			Network Adapter Type		E1000	_				
			Assured Recovery Network Adapter Mapping	1	Click to edit physical network mappings	-				
			High Availability Network Adapter Mapping		Network mapping assigned	- 1				
			8렡 Spool							
			비린 Recovery							
			Volume Snapshots Management Properties							
			C Event Notification			×				
			×							
				Back	Next Finish Cancel					

11. Change properties, as desired, and click Next.

The following information is acquired:

- CPU number
- Memory size on VM
- Adapter information on the physical Master
- Network Mapping List

You may also change these settings outside of the scenario creation wizard. For more information, see the <u>Arcserve Continuity Suite Administration</u> Guide.

Wait while Arcserve Continuity Suite retrieves Switchover Properties.

12. When the Switchover Properties dialog opens, expand the Network Traffic Redirection properties. The Network Adapter Mapping dialog opens. On this dialog, modify the physical network mappings.

**Note:** If there is only one virtual network adapter in both the Master and Replica servers, they are mapped automatically.

a. Click the drop-down in the Replica Network Adapter column and choose the adapter you wish to map to the adapter listed in the Master Network Adapter column.

Scenario Edit Events View Cloud 1	X	^				
Constinuier	Master Network Ada	oter	Replica Network Adap	oter		_
	ens192		<empty adapter=""></empty>			
Scenarios	virbr0		VM Network			Value
Scenario V P			Arcserve RHA internal for AR			
🗉 🗐 FSHA-L to Hypervisor 🛛 义 S			<empty adapter=""></empty>			
Hosts C 💙	Master Adapter Information	Replica adapter settin	ng method			
8 💀 10.60.18.158	H1113 ens192	Please select the method	to set the target adapter configuration.			_
- 🖉 10.60.18.192 🛛 🗸 🗸 🗸	ma.	If you customized the rout the switchover VM	ting table on the master and used a different subnet, t	then verify the route table of		
×						
~	DHCP Enabled	O Apply master adap	ter information			
~	Yes	O Customiza adanta	rinformation			
н	IP Address	O Gustornize adapter				
8	Subnet Mask	IP Settings DNS&WINS	S			
Soor	Gateways	- IPs				
Dur		IP	Mask	Add		
Run	DNS Server	IP Address	Subnet Mask	Pamaua		
	10.55.			Nenove		
	10.55.1.					
Events						
Message ID Sequeno⊽		Gateways				
		Gateway	and the second second	Add		
		Gateway		Demus		
				nemove		
Evente   Scenario Validation Results   Annlie						

- b. For Replica adapter setting method, do the following:
- Apply master adapter information (default) Choose this option if the Master Adapter is in DHCP mode.

- Customize adapter information Choose this option to enable the IP Settings and DNS&WINS tabs.
- IP Settings You can add or remove IP Addresses, Subnet Masks and Gateways.
- DNS & WINS You can add or remove DNS IP Addresses, Primary or Secondary WINS.
- 13. Click **OK** to close the Network Adapter Mappings dialog and click **Next** to continue.

The Switchover Initiation dialog opens.

9	Scenario Creation Wizard 📃 🗖 🗙
	Switchover Initiation
Velcome	The properties below control automatic switchover.
<ul> <li>Product Type</li> </ul>	
<ul> <li>Scenario Setup</li> </ul>	
✓ Host	Quitebruar Initiation
<ul> <li>Engine Verification</li> </ul>	
✓ Volume Setting	
<ul> <li>Resource Pool Selection</li> </ul>	
V Storage Selection	A militare and to initial extension in the Unite constitution of the defined density is a start to an only initial defined with the desiritation in the second start of the desiritation in the second start of the
<ul> <li>Scenario Properties</li> </ul>	A switchover can be initiated automatically in the master server is down or database tailure detected, it can also be manually initiated by the administrator. In both cases, a notification message is provided when a failure is detected.
<ul> <li>Hosts Properties</li> </ul>	
Switchover Properties	
Scenario Verification	
Run Scenario	
	Switchover gutomatically Switchover manually
	<u>Back Next Einish Cancel</u>

14. Specify if switchover must be started automatically or manually, and then click **Next**. Reverse Replication cannot be specified in this scenario.

**Note:** If Scenario Verification lists any errors, you must resolve them to continue. If any warnings are listed, you should also resolve them to successfully continue. After making changes, click Retry to repeat verification.

15. The scenario verification runs automatically, and the configurations are now complete.

Ô			Arcserve Cor	tinuity Suite M	Manager - @srini-rep2:8088	_ 0
Scenario Edit Events \	View Cloud Tools H	elp				
[ 🗀 🛛 🕲 🗆 🗟 🖁	) # \$ \$ \$ <b>6 0 \$</b>	2 🗃 🗟 🛛 H 🍪				
🔒 Scenario View 📄 Sn	napshot View 🐰 Remo	ote Installer Monitor 🕴	훷 Host Maintenance Mon	tor 🖕		
Scenario view				<b>-</b> ₽ X	L. Statistics	<b>↓</b> 1
🗏 🌐 Scenarios					Scenario Statistics	
Scenario	State	Product	Server	Mode		
🖻 👂 FSHA-L to Hypen	visor Switchover	HAVAR	Full System On	line		
Hosts	Changed Sent	Data Sent Files	Received D Received Fi	In spool	Active	Stand-By
⊟ 🛃 10.60.	126.32 KB 3.	.97 GB 107442		0.00 Bytes	10.60	10 60 1
··· 🕼 10.60.1	123.36 KB		3.97 GB 10744	2 0.00 Bytes	10.60.	10.60.1
Eurote					0 % of spoel 0.00 Bytes Changed: 125.22 KS Switchow	r in progress
Message ID Sagu	eno⊽ Severtv	Host/Scenario	Time		Event	
moordyc ity 3640	Jevelly	Trust/ JUST/BID	Time		LIGIL	

16. Click Next.

The Scenario Run dialog opens.

17. Click **Run Now** if you wish to start synchronization and activate the scenario. For full system scenarios, choose Volume Synchronization. Click **Finish** to save current settings and run the scenario later.

9	Scenario Creation Wia	ard		_ 8 X
		Scenario Run		
V Welcome	The scenario has been configured and is ready to run. Press Run Now to start the scenario. Initial data	synchronization will start auto	omatically after pressing the Run Now button. To run scenario later	press the Finish button.
<ul> <li>Product Type</li> </ul>				
<ul> <li>Scenario Setup</li> </ul>				
✓ Host	Occurrie IFOUA I de libre entire el is errole de mus			
<ul> <li>Engine Verification</li> </ul>	Scenario "FSHA-L to Hypervisor" is ready to run			<u> </u>
<ul> <li>Volume Setting</li> </ul>		1		
<ul> <li>Resource Pool Selection</li> </ul>	Product type	High Availability Scena	ario (HA)	
V Storage Selection	Server type	Full System		
Scenario Properties     Hosts Properties	Integrity Testing for Assured Recovery	On		
<ul> <li>Switchover Properties</li> </ul>	Replication mode	Online		
<ul> <li>Scenario Verification</li> </ul>				
Run Scenario	Master			
	Name		10.60.1	
	Spool size (MB)		Unlimited	
	Spool path		[INSTALLDIR]/tmp/spool	
	Replica			
	Name		10.60.	
	Spool size (MB)		Unlimited	
	Spool path		[INSTALLDIR]/tmp/spool	
	Master Root Directories	Replica Root Dir	rectories	
	1 >	1		
				~
			Back Kun Now Finish	Cancel

## **Migrating Windows or Linux FSHA to Azure**

This section provides instruction on how to migrate Windows or Linux FSHA to Azure. Before you begin, make sure to register and create an account in Azure. For more information, see <u>Configure Microsoft Azure</u>.

#### Follow these steps

1. Open the Manager and choose Scenario, New or click the New Scenario button to launch the wizard.

The Welcome screen opens.

2. Choose Create a New Scenario, select a Group from the list, and then click Next.

	Welcome to the New Scenario Wizard			
Welcome	This wizard will help you create a new scenario, either from scratch or using a predefined template. It may also be us	ed to cre	eate new	
Product Type	templates. When the scenario creation is finished, you will be able to run the scenario.			
cenario Setup	To exit the wizard and continue configuration manually from any step, click the Finish button.			
cenario Verification				
iun Scenario	Create a New Scenario			
	Create a New Template			
	O Contra No. Construction - Trankto			
	Create a New Scenario from a Template			
	Assign a Scenario Group (select existing one or enter a new group name)			
	Azure			
	N			
	La la			

The Select Server and Product Type screen opens.

- 3. Choose Full System, High Availability Scenario (HA) and then click Next.
- 4. (Optional) For Assured Recovery, select Integrity Testing for Assured Recovery.

The Master and Replica Hosts screen opens.

Ð	Scenario Creation Wizard
Welcome     Product Type     Scenario Setup	Select Server and Product Type Select a licensed server type, product type and a required task below. If the desired option is not listed, please do one of the following: If you have an appropriate license key, exit the wizard by clicking Cancel and then click Help, Register. If you do not have an appropriate license key and you are interested in obtaining one, please contact your software provider.
Scenario Verification	Calast Casus Time
Scenario Verification Run Scenario	
	Select Product Type
	Replication and Data Recovery Scenario (DR)
	High Availability Scenano (HA)     Content Distribution Scenario(CD)
	✓ Integrity Testing for Assured Recovery (AR)
	Integration Options  None  Accessive Backup
	Back Next Einish Cancel

- 5. Do the following in the Master and Replica Hosts screen:
  - a. Type a Scenario Name and enter the Hostname or IP Address and Port number for the Master server.
  - b. Specify Windows or Linux as the Master OS Type.

**Note:** For Windows, enter IP address or host name of the Windows server to be migrated.

c. Specify Microsoft Azure as the Replica server.

© .	Scenario Creation Wizard
<ul> <li>✓ Welcome</li> <li>✓ Product Type</li> <li>Scenario Setup</li> </ul>	Master and Replica Hosts Enter the hostname or IP address for the Master (source) host. Enter the hostname or IP address for Vinual Platform host which hosts virtual machines. (Not applicable for Hyper-V scenarios) Erriter the hostname or IP address for the Appliance host which is one of virtual machines hosted by Virtual Platform and with Arcserve Continuity Suite Engine installed.
Scenario Verification Run Scenario	Master Setting Scenario Name FullSystem
	Master Hostname/IP Master OS Type Port 25000 Windows V
	Replica Setting Server Type Microsoft Azure Virtual Platform HostnameIP
	Appliance Hostname/IP Port 4403 © TLS O SSH O TCP Appliance Hostname/IP Port 25000
	<ul> <li>Assessment Mode</li> <li>✓ Verify Arcserve Continuity Suite Engine on Hosts</li> </ul>
	Back Next Einish Cancel

**Note:** Use the Verify Arcserve Continuity Suite Engine on Hosts to verify the connectivity between Master and Replica. It verifies that the engines are installed on the Master. To skip the verification, clear the checkbox.

d. Specify the Azure replica instance (appliance). Click the \_\_\_\_\_ button to browse for and select the Azure account and Azure replica instance (appliance).

	C	loud In	stance Sel	ection				X
Cloud Provider:	Microsoft Azure	¥						
Cloud Account:	Azure tests	۷	Location:	japanwes	st	۷		
Resource ID		Name		IF	,		Resource Group	
/subscriptions/11	711a32-9214-4cdb-a232-2452955b18b	FSHAV	vinVA1	•			FSHAWin-rsg1	
<			ш					>

The Cloud Instance Selection dialog opens.

- e. Select the Azure account, cloud replica, and region, and then click OK.
- 6. Wait for Engine Verification to complete and click **Next**. If required, click Install to upgrade the Engine on one or both servers and Verify Again.

The Volume Setting screen opens.

7. Select one or more volumes for the physical machine you want to protect and click **Next**.

The Scenario Properties screen opens.

Ô	Scenario Creation Wizard			_ 0	X
<ul> <li>Welcome</li> <li>Product Type</li> <li>Scenario Setup</li> </ul>	Volume Setti Please select one or more volumes for the physical machine you want protec the sub folders and files in the excluded folder will be excluded as well.	<b>ng</b> ted. To see more d	etailed information,	click on a volume. All	
<ul> <li>Host</li> <li>Engine Verification</li> <li>Volume Setting</li> <li>Scenario Properties</li> <li>Hosts Properties</li> <li>Switchover Properties</li> <li>Scenario Verification</li> <li>Run Scenario</li> </ul>	Volumes to be protected → WIN-0SV4HINAC4CN ♥ @ \$ \$ ♥ @ \$ ♥ @ \$ W?IVolume{e2757b31-9ea4-11e9-80b1-806e666e6	Property File System T. Driver Letter System Volu Boot Volume Label Total Size Free Size Cluster Size	Value           NTFS           C:/           No           Yes           39.7 GB           26.1 GB           4096		
	< III >	Volume Setting	Files		
	Back	Next	<u>F</u> inish	<u>C</u> ancel	

8. Accept the default values or set new values as required and click Next.

**Note:** Scenario properties control the entire scenario. These properties can also be configured outside of the Wizard. For more information, see Configuring Scenario Properties.

Ð			Scenario Creation Wizard				_ 0	X
Welcome     Product Type     Scenario Setup	The Master and Replica properti The recommended default values	es are configure s are already list	Master and Replica Proper there. You can also configure these properties after the completion of ad. Before changing these values, please refer to the Acceive Continu do.	rties the wizard steps. ity Suite Administratio	n Guide.			
✓ Host	Master Preparties	Value	Papilas Proportion			Value		^
<ul> <li>Engine Verification</li> </ul>	Master Properties	value	Replica Properties			value		- 11
Volume Setting	Host Connection		Host Connection					
V Scenario Properties			Virtual Machine					=
Hosts Properties	Event Notification		Virtual Platform Setting					
Switchover Properties	E Reports		Virtual Platform Type		Micros	oft Azure		
Scenario Verification			Virtual Platform		portal.	azure.com		
Run Scenario			Port		443			
			SSL Connection		1			
			E Virtual Machine Setting					
			Virtual Machine Name		WIN-0	SV4HNAC4CN_291	7200266_2	
			VM Size		Standa	ard_DS2_v2		
			Resource Group		RHA			
			Storage Account Type		Premi	um SSD		
			Assured Recovery Network Adapter Mapping		Click to	edit physical netw	ork mappings	_
			High Availability Network Adapter Mapping		Netwo	k mapping assigne	ed	×
			Configure experies between the obviousl actuards on experies	III In a section				/
			Conligure mapping between the physical networks on master an	lu replica				
				Back	Next	Einish	Cancel	
				-	_	-	-	

The Master and Replica Properties screen opens.

9. In the network mapping dialog launched automatically from Master and Replica properties screen, set the mapping between the Master's NICs and subnets on Microsoft Azure, security groups, and IP addresses and then click **OK** to save and close the network mapping dialog.

0	¥	High Availability Network Adapter Mapping
Welcome     Product Type     Scenario Setup     Host	Please set network mappings between master a Choose virtual network FSHAV/in-rsg1-vnet ( FSHAV/in-rsg1-vnet ( FSHA	dapter and replica adapter. FSHAV/in-rsg1) v FSHAV/in-rsg1) Replica Network Adapter Connection default   10.0.0.024
<ul> <li>Engine Verification</li> <li>Volume Setting</li> <li>Scenario Properties</li> <li>Hosts Properties</li> <li>Switchover Properties</li> <li>Scenario Verification</li> <li>Run Scenario</li> </ul>	Master Adapter Information  Master Adapter Information  Eherner@Intel(R) 82574L Gigabit Network Connection  DHCP Enabled Yes UP Advance	Replica adapter setting method           Please select the method to set the target adapter configuration.           If you customized the routing table on the master and used a different subnet, then verify the route table of the switchover VM. <ul></ul>
	IF Autorss Subnet Mask 255 255 255 0 Gateways 106018.1 DNS Server 1060.1.11 10.55.1.107	IP Settings DNS&WINS Mcrosoft Azure Security Group Security Group FSHAIWinVA1-neg
		IP Address Assign static private IP Address Rease make sure the private IP address is in the range of the subnet IP addresses and is an available address. Enable public IP Address Create a new public IP address Use an existed public IP address

Master and Replica properties apply only to host servers.

10. Accept the default values or modify values and click Next.

The Switchover Properties screen opens.

	Switche	over Properties	
✓ Welcome	Switchover properties will be configured in this step. The recommended default va	alues are listed below. Refer to the Administration Guide before modifying t	ne current
V Product Type	settings.		
✓ Scenario Setup			
🖌 Host	Property	Value	/
✓ Volume Setting	- Switchover	1000	
V Scenario Properties	Switchover Hostname	2 34 229 237	
✓ Hosts Properties	Hosts	0 01.120.201.	
Switchover Properties	Master Fully Qualified Name	ray-appliance	
Scenario Verification	Replica Fully Qualified Name	WIN-TFRR2GMGCN7	
Run Scenario	Network Traffic Redirection		
	E Redirect DNS	On	
	DNS Servers IPs		
	DNS IP	168.63.129.	
	DNS IP	10.1.0.2	
	DNS IP	Click here to add new IP.	
	DNS TTL (sec)	60	
	Active Directory Integrated	On	
	Master IPs in DNS		
	<		>

11. Expand the Switchover property and enter the Switchover Hostname.

- 12. Expand the *Hosts* property and enter the Master Fully Qualified Name and Replica Fully Qualified Name.
- 13. Expand the *Network Traffic Redirection* property and specify redirection options, including Redirect DNS, DNS Servers IPs, and Master IPs in DNS.

**Note:** When you set the Redirect DNS option to *Off*, you can also specify a value for the Virtual Machine IPs on Replica server in DNS option. If the Redirect DNS property value is *On*, then the Virtual Machine IPs on Replica server in DNS option will not display in the list.

14. Set the switchover properties and click **OK**.

The Switchover Initiation screen opens.

15. Specify if switchover must be started automatically or manually, and then click **Next**.

Ô	Scenario Creation Wizard	X
<ul> <li>✓ Welcome</li> <li>✓ Product Type</li> <li>✓ Scenario Setup</li> </ul>	Switchover Initiation The propeties below control automatic switchover.	1
<ul> <li>Host</li> <li>Engine Verification</li> <li>Volume Setting</li> <li>Scenario Properties</li> <li>Hosts Properties</li> <li>Switchover Properties</li> <li>Scenario Verification</li> <li>Run Scenario</li> </ul>	Switchover Initiation A switchover can be initiated automatically if the Master sener is down or database failure detected. It can also be manually initiated by the administrator. In both cases, a notification message is provided when a failure is detected.	
run scenario	Switchover gutomatically Switchover manually	
	Back Next Enish Cancel	

16. The scenario verification runs automatically, and the configurations are now complete.

9			Arcserv	e Continuity	Suite Manage	r - @win-0sv4	hnac4cn:443	\administrator@win-0sv4hnac4cn:443	_ 0 X
Scenario Edit	t Events View	Cloud Tools I	Help						
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& Scenario V	iew Snapsho	t View 🛞 Rem	ote Installer Mor	nitor 🔦 Host	Maintenance M	nitor .			
cenario view				2			• 0 X	Is, Statistics	
(1) Scenario								Scenario Statistics	
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- Marte	Houte	Channel	Sect Data	Sant Files	Received Data	Received Files	o In ancel	Charles .	SHIP ST
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A.		0.00 Pytes			10.33 GB	32834	73.30 MB		
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								Dept	Carget
								🕞 Boot Directories 🥐 Properties 🙀 Hinh Availability Properties 🌬 Statistics	1
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06001 03165 13166 13164 104502 13167	11384 11383 11382 11381 <b>11379</b> 11380	info info info info info info info	52.17 52.17 52.17 52.17 52.17 52.17	156.143 156.143 156.143 <b>51.156.143</b> 156.143	10 (5) 10 (5) 10 (5) 10 (5) 10 (5) 10 (5)	/4/2019 3:31:52 F /4/2019 3:31:45 F /4/2019 3:31:43 F <b>3/4/2019 3:31:4</b> 3 F <b>3/4/2019 3:31:4</b> 2 F	M M M 12 PM M	htalang dak Nabergtona (17) 1a23 82/4-4cb e222 3452950: 1b: 1 /eeoureGroupe /59/ Nabergtona (17) 1a23 82/4-4cb e222 3452950: 1b: 1 /eeoureGroupe /59/ Nabergtona (17) 1a23 82/4-4cb e222 3452950; 1b: 1 /eeoureGroupe /59/ Centrop dak (W) 65/4-804-6203 20140; 2014 2015 The scoration will reduction new daka as the virtual platform configu Damounting dak	AWn-ng1/providens/M AWn-ng1/providens/M <b>nation was changed</b>

When the software is readying your cutover, it displays the *Synchronization in progress* message.

When the Azure instance is successfully created, the switchover completes. The Azure instance is now ready for use.

# **Migrating Linux FSHA to AWS EC2**

This section provides instruction on how to migrate Linux workload to AWS EC2.



#### To create a new full system EC2 High Availability Scenario

1. Open the Manager and choose Scenario, New or click the New Scenario button to launch the wizard.

The Welcome screen opens.

2. Choose Create a New Scenario, select a Group from the list, and then click Next.

The Select Server and Product Type screen opens.

© Scenario Creation Wizard					-		×
Welcome     Product Type     Scenario Setup	Select a licensed server type, product type and if you have an appropriate license key, exit the if you do not have an appropriate license key and if you do not have an appropriate license key and	Select Server and a required task below. wizard by clicking Canc nd you are interested in	I Product Type f the desired option is el and then click Help obtaining one, please	not listed, please do ( , Register. contact your softwar	one of the	e following r.	:
Scenario Verification Run Scenario	Select Server Type File Server Control Exchange Server Control Exchange Server Control Server Control Server Control Service Microsoft Hyper-V Microsoft SharePoint Server Full System		Custom Application				
	Select Product Type O Replication and Data Recovery Scena (a) High Availability Scenario (HA) O Content Distribution Scenario(CD) (c) Integrity Testing for Assured Recovery Integration Options (c) None Arcserve Backup	rio (DR) (AR)					
		Back	Next	Finish	6	ancel	

3. Choose Full System, High Availability Scenario (HA) and then click Next.

The Master and Replica Hosts screen opens.

Scenario Creation Wizard	- 0	×
<ul> <li>✓ Welcome</li> <li>✓ Product Type</li> <li>Scenario Setup</li> </ul>	Master and Replica Hosts Enter the hostname or IP address for the Master (source) host. Enter the hostname or IP address for Vitual Platform host which hosts vitual machines. (Not applicable for Hyper-V scenarios) Enter the hostname or IP address for Vitual Platform and with Arcserve Contrustly Subt Engine installed.	
Scenario Verification	Master Setting	
Run Scenario	Scenario Name	
	nfepct76m31	
	Master Hostname/IP Master OS Type	
	Port 25000 Linux v	
	Server Type Amazon EC2 Virtual Platform Hostname/IP ec2 amazonaws.com Port 443  TLS SSH O TCP Appliance Hostname/IP Port 25000	
	Assessment Mode	
	Back Next Finish Cancel	1

- 4. Do the following in the Master and Replica Hosts screen:
  - a. Type a Scenario Name and enter the Hostname or IP Address and Port number for the Master server.
  - b. Specify Linux as the Master OS Type.

c. Specify Amazon EC2 as the Replica server.

Scenario Creation Wizard	-		×							
<ul> <li>✓ Welcome</li> <li>✓ Product Type</li> <li>Scenario Setup</li> </ul>	Master and Replica Hosts Enter the hostname or IP address for the Master (source) host. Enter the hostname or IP address for Virual Platform host which hosts virual machines. (Not applicable for Hyper-V scenarios) Enter the hostname or IP address for the Appliance host which is one of virtual machines hosted by Virtual Platform and with Arcserve Continuity Suite Engine installed.									
Scenario Verification Run Scenario	Master Setting Scenario Name nfepct76m31 Master Hostname1IP Master OS Type									
	Replica Setting       Server Type       Amazon EC2       Virtual Platform Hostname/IP       ec2.amazonaws.com       Port       443       TLS       SSH       O TCP									
	Assessment Mode Verify Arcserve Continuity Suite Engine on Hosts									

**Note:** Use the Verify Arcserve Continuity Suite Engine on Hosts to verify the connectivity between Master and Replica. It verifies that the engines are installed on the Master. To skip the verification, clear the checkbox.

d. Specify the EC2 replica instance (appliance). Click the <u>und</u> button to browse for and select the AWS account and EC2 replica instance (appliance).

The Cloud Instance Selection dialog opens.

Cloud Instance Sele	ction			-				×
Cloud Provider:	Amazon	EC2	~					
Cloud Account:	the@the	a.com	~	Region:	USWA	ist (Oregon)	~	
ID		Name	IP			Available Zone		
i-0257935b3f3a052 i-04100b2acf0b56c	61 c2	Frank-Liuke-rha-auto-DO Frank-Liuke-rha-auto-DO	52.11.89 35.162.3	180, 52, 11, 254, 131, 35	89.180	us-west-2b us-west-2a		
i-093c92323e3e17e	-5e	FRANK-VA-RHEL77-DO	34.221.1	0.159		us-west-2a		
							0.7	
						Pietresh	00	Cancel

- e. Select the AWS account, cloud replica (appliance), and region and click OK.
- 5. Wait for Engine Verification to complete and click **Next**. If required, click Install to upgrade the Engine on one or both servers and Verify Again.

The Volume Setting screen opens.

6. Select one or more volumes for the physical machine you want to protect and click **Next**.

The Scenario Properties screen opens.

7. Accept the default values or set new values as required and click **Next**.

**Note:** Scenario properties control the entire scenario. These properties can also be configured outside of the Wizard. For more information, see Configuring Scenario Properties.

8. Select one or more volumes for the physical machine you want to protect and click **Next**.

The Scenario Properties screen opens.

9. Accept the default values or set new values as required and click Next.

**Note:** Scenario properties control the entire scenario. These properties can also be configured outside of the Wizard. For more information, see Configuring Scenario Properties.



The Master and Replica Properties screen opens.

10. In the network mapping dialog launched automatically from Master and Replica properties screen, set the mapping between the Master's NICs and subnets on AWS, security groups, and IP addresses and then click **OK** to save and close the network mapping dialog.

					9777.)	0.0				
Please set network mappings between master add	apter and replica adapter.									
Choose VPC vpc-14862:   vpc-new2	~									
Master Network Adapter	t		Replica Network Adapte	r						
Ethernet 2:Microsoft Hyper-V Network Adapte	er #2	subnet-f4d533a	d   Public subnet   10.1.0.0/24 (s	subnet-f4	d533ad)	~				
Master Adapter Information	Replica adapter setting m	ethod								
Ethernet 2:Microsoft Hyper-V Network Adapter #2	Please select the method to set the target adapter configuration. If you customized the routing table on the master and used a different subnet, then verify the route table of the switchover VM.									
DHCP Enabled	Apply master adapter information									
Yes	Customize adapter information									
P Admess 10.0.0.										
Subnet Mask	IP Settings DNS&WINS EC2									
Gateways	Note: If the subnet is modified, the existing instance is terminated and a new instance is launched.									
10.0.0 DNS Server	Samuel Course									
168.63.129	Security Group		launch-wizard-214							
	Idunci Pwi Zaru 214									
	IP Address									
	Assign static privat	te IP Address	0.0.0.0							
	Please make sure the private IP address is in the range of the subnet IP addresses and is an available address. If the instance is created, you cannot modify the private IP address.									
	Enable public IP A	ddress								
	O Create a new publ	ic IP address								
	Use an existed put	blic IP address	Secondo-			~				
			OK		Cano	el				

Master and Replica properties apply only to host servers.

11. Accept the default values or modify values and click Next.

The Switchover Properties screen opens.

	Shido		
Welcome	Switchover properties will be configured in this step. The recommended default values	ues are listed below. Refer to the Administration Guide before modifying the cur	rrent
Product Type	uuungu.		
Scenario Setup			
✓ Host	Property	Value	
✓ Volume Setting	Switchover	1	
<ul> <li>Scenario Properties</li> </ul>	Switchover Hostname	34.229.237.	
✓ Hosts Properties			
Switchover Properties	Master Fully Qualified Name	ray-appliance	
enario Verification	Replica Fully Qualified Name	WIN-TFRR2GMGCN7	
in Scenario	Network Traffic Redirection		
	E direct DNS	On	
	DNS Servers IPs		
	DNS IP	168.63.129.	
	DNS IP	10.1.0.2	
	DNS IP	Click here to add new IP.	
	IDNS TTL (sec)	60	
	Active Directory Integrated	On	
	Master IPs in DNS		
	<		>

12. Expand the Switchover property and enter the Switchover Hostname.

- 13. Expand the *Hosts* property and enter the Master Fully Qualified Name and Replica Fully Qualified Name.
- 14. Expand the *Network Traffic Redirection* property and specify redirection options, including Redirect DNS, DNS Servers IPs, and Master IPs in DNS.

**Note:** When you set the Redirect DNS option to *Off*, you can also specify a value for the Virtual Machine IPs on Replica server in DNS option. If the Redirect DNS property value is *On*, then the Virtual Machine IPs on Replica server in DNS option will not display in the list.

15. Set the switchover properties and click **OK**.

The Switchover Initiation screen opens.

16. Specify if switchover must be started automatically or manually, and then click **Next**.

© Scenario Creation Wizard	-		Х
<ul> <li>✓ Welcome</li> <li>✓ Product Type</li> <li>✓ Scenario Setup</li> </ul>	Switchover Initiation The properties below control automatic switchover.		
<ul> <li>✓ Host</li> <li>✓ Volume Setting</li> <li>✓ Scenario Properties</li> <li>✓ Hosts Properties</li> <li>Nost choruse Properties</li> </ul>	Switchover Initiation A switchover can be initiated automatically if the Master server is down or database failure detected. It can also be manually initiated by the administra	tor. In both	
Scenario Verification Run Scenario	coses, a numicalul message is provided when a failure is detected.		
	Switchover automatically     Switchover manually		
	<u>B</u> ack <u>N</u> ext <u>F</u> inish	<u>C</u> ancel	

- 17. Scenario verification is run automatically, and configurations are now complete.
- 18. Configure NAT. For more information, see <u>Configuring the Continuous Avail</u>ability NAT Utility for Various Network Setups.
- 19. Create a New EC2 Data Replication Scenario. For more information, <u>Create a</u> <u>New EC2 Data Replication Scenario</u>.
- 20. Run the scenario and monitor events in the management center.

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21. After replication of the data, check if the switchover is complete. On successful switchover, the following message is displayed:

The replica environment is ready for use.

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22. When the software is readying your cutover, it displays the "Starting switchover procedure..." message.



When the EC2 instance is successfully created, the switchover completes. The EC2 instance is now ready for use.