

## RoseReplicatorPlus Failover Solution HikCentral V2.4



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## **1** Preface

## **1.1 Background**

In order to improve the high availability of HCPs, it is necessary to perform mirror hot standby for HCPs. The HCP + Rose dual machine hot standby solution is to install HCP and Rose software on two servers respectively. The two machines are divided into a host and a standby machine. Under normal conditions, only one HCP on the machine is running. Once the host fails, such as server downtime or HCP service abnormal stop, Rose software will start the standby HCP service to take over the business, ensure the continuous availability of services. By default, there is no need for manual intervention in the handover process. The process of switching between the active and standby machines requires a certain amount of time, and the service may be interrupted for a short time.

In the original 1.X version of Rose hot standby solution, multiple services need to be monitored by Rose. The watchdog cannot be used in Rose mode, resulting in complex configuration and many usage costs for users. As the number of HCP service functions increases, the complexity of the original solution gradually highlights. In HCP 2.4, there is an urgent need for a new solution with simple configuration and good user experience, which has been greatly optimized in previous HCP 2.2 and 2.3. The specific configuration and usage scheme are as follows:

Abbreviation	Describe
	It is a solution software to realize fault tolerance and high
	availability of two hosts. Its principle is to synchronize the
RoseReplicatorPlus	data between two hosts in real time through real-time
	mirroring technology, and provide a virtual host for customers
	to access. When one of the hosts goes down, the service is
	automatically switched to the other host, and the external

#### **1.2 Terms and abbreviations**

HIKVISION	Rose Failover Solution HikCentral V2.4 03/2023
	service address remains unchanged.
Rose	Rose mentioned in this article is RoseReplicatorPlus
BeeAgent	A service in HCP is divided into a background service and a client with GUI.Manage the start and stop of other services,
U	and actively pull up services when other services are abnormal.
SAC	StorageAccessComponent, a storage service access component developed by Hikvision, comprehensively manages multiple storage servers and provides a unified interface to the outside world.

# 2 HikCentral Pro 2.4 & RoseReplicatorPlus software ins tallation configuration

## 2.1 Preliminary preparations

#### 2.1.1 Software and license

- ✓ <u>Platform software: HikCentral Professional V 2.4 installation package</u>
- ✓ HCP license: Although Rose needs to be deployed on two computers, o nly one license is required here.
- ✓ <u>Rose software: RoseReplicatorPlus for oversea-5.8.0-1783.221123-Window</u> <u>s-x64</u>

(Rose software can be obtained from the CD attached with the order, or c

https://drive.ticklink.com/hcs/controller/hik-manage/fileDownload?link=8L11k7y E& Extraction code: 6666

✓ Rose Dongle: Rose software needs to be deployed on the active and stand by machines, so two authorizations are required. Rose Dongle is a hardwar e dongle, which will be delivered when placing an order for Rose, and ca n be inserted above the corresponding host and standby servers.



[Note]: A formal project must have a hardware dongle for Rose softwa re to run normally.

For the instructions on changing the hardware dongle to a software license and shipping after the order is placed, please refer to the Hiknow document "Operating Instructions on Changing the Hardware dongle of Rose Hot Backup Software to a Software License &Instructions on the Shipping and Delivery Process after the Order of rose Software License Materials". The link is as follows: https://hiknow.hikvision.com.cn/kms/kms/multidoc/kms multidoc knowledge/kms

<u>MultidocKnowledge.do?method=view&fdId=17e3449f7545adae136928543f58bd</u> <u>2f</u>

#### 2.1.2 Server requirements

✓ <u>Network card requirements:</u> You need to prepare two servers/virtual machines as the active and standby machines on site, each of which must be installed with at least two network cards.

Examples are as follows:

Server A (host) and server B (standby), server A is equipped with network card A1 and network card B1, and server B is equipped with network card A2 and network card B2

*A1* ----- *A2* (*A1* and *A2* network cards are used for service communication between HCPs)

*B1* ----- *B2* (*B1* and *B2* are used for heartbeat communication, data synchronization and transmission between PCs)

- ✓ USB interface: If you purchase a hardware dongle, the two servers must have an open and usable USB interface, which is not required if you use an ordinary license code.
- Hardware performance requirements: please refer to "HikCentral Professional V2.4 Software Requirements & Hardware Performance"
- ✓ System requirements: RoseReplicatorPlus supports Windows 7, Windows server2008 R2 64bit or above. It is recommended to install Windows server2008



R2 64bit or above operating system in the project.

[Note]: Each server needs to install the same version of the operating system, and this hot standby solution only supports hot standby between physical machines or virtual machines, and does not support hot standby between virtual machines and physical machines.

#### 2.1.3 Network related configuration

#### 2.1.3.1 Firewall configuration

If the firewall is enabled in the project, the following ports and network communication permissions need to be opened on the firewall:

- TCP: 7320, 7330 (port required for copying Rose image), 5432 (database listening port)
- UDP: 3000 (private network heartbeat port)
- ICMP (ping): Allow ICMP protocol messages to be transmitted in the network

#### 2.1.3.2 Server IP address configuration

- The IP addresses of the two network cards on the host and the standby must be manually configured, and DHCP automatic addressing cannot be enabled.
- The service IP and heartbeat IP of the host must be set in different network segments, and the service IP and heartbeat IP of the standby must be set in different network segments.

## [Note]: The number of heartbeat network cards and service network cards can be appropriately increased in the project to achieve network redundancy.

#### **Examples are as follows:**

- ✓ The service IP of the active and standby machines (that is, two IP addresses of the 10 network segments) are used for the communication of related services of the HCP platform, and their corresponding physical network cards should be connected to the user's network.
- ✓ The heartbeat IP addresses of the active and standby computers (that is, the two IP addresses of the 192 network segment) are used for heartbeat and data synchronous transmission between the active and standby computers. The corresponding two



network cards are recommended to be connected directly through the network cable.(or connected through a switch)

✓ The virtual IP set by Rose (must be in the same network segment as the service IP) is the virtual IP created by Rose for external clients to access the HCP platform

Course Drougertier	Network card 1	Network card 2	Rose Active IP
Server Properties	(Service IP)	(Heartbeat IP)	(Virtual IP)
Host Active Server	10.8.96.17	192.168.1.2	10.0.00 V
Standby Server	10.8.96.156	192.168.1.3	10.8.96.X

2.1.3.3 Network topology of Rose hot standby system



## 2.2 Product form supporting hot standby

Product form	Remarks
Non heterogeneous deployment of HCP	Most common scenarios
database	
HCP database heterogeneous	Both database and HCP can be



deployment	configured with hot standby	
	Data transmission is required for the	
	API. When OpenAPI is independently	
OpenAPI+HCP deployed together	deployed outside the HCP server, Rose	
	hot standby is not required	
SAC+HCP	Hot standby is required	
SMS	Separate hot standby for streaming media	

## 2.3 HCP Installation Guide (here only for Windows system)

[Note]: The active and standby machines must ensure that the system disks are under the same drive letter. If the system disks of the active and standby machines are under different drive letters, the paths of the fnood of the active and standby machines will be different, which will cause the data backup of fnood to fail. The data stored in fnood is about license activation. If the data is not synchronized correctly, the platform may become unavailable.

## 2.3.1 Centralized deployment

Run HCP installation package



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Select the custom installation, check the services to be installed, and select the image hot standby installation mode

[Note]:

- 1. HikCentral Server is required
- 2. HikCentral Control Client can be selected according to individual needs

(HikCentral Streaming Service cannot be installed together with HikCentral Server)

3. Select the image hot spare mode for installation

安装	服务			
	系统管理服务		客户端	
	流媒体服务		数据库服务管理器	
安装	模式			
	普通	)镜像热备		
	数据库安装位置:所需空间3GB可用	空间165GB		
D:\\	likCentral\VSM Servers\PGData			
	程序安装位置:所需空间3GB可用式			
D:\H	fikCentral			Þ
☑ 我接受	許可证协议			自定义安装 ~

If the hardware performance of the current server does not meet the requirements of HikCentral, the following prompt will appear:





#### 3) Installation path of database

	安装服务			
	☑ 系统管理服务	☑ 客户端		
	流媒体服务	数据库服务管理器		
	安装模式			
	○ 普通	● 镜像热备		
	选择数据库安装位置: 所需空间3GB	)可用空间63GB		
	C:\Program Files (x86)\HikCentral\\	/SM Servers\PGData	đ	
	选择程序安装位置:所需空间3GB可	可用空间63GB		
	C:\Program Files (x86)\HikCentral		D	
✓ ∄	我接受 许可证协议		自定义安	装 ~

The default database installation path is shown in the figure. If you change the installation location of the database, you need to synchronize it in Rose's configuration later.

4) Installation complete

#### [Note]: The path of the fnood folder will be used when configuring Rose.However,



## the fnood folder will not be generated automatically after the platform is installed. You need to open the watchdog to pull up the service and generate the fnood folder.

Open the Windows system service interface, set the BeeAgent service to automatic or manual as required, and start the service.



> Turn on the watchdog and wait for all services to start normally.

	上 下载日志	性能监测 🗟 数据库异常自恢复;	配置 🕕	
服务管理器	服务名称	端口号	状态	操作
HikCentral Professional	> System Management Service(SYS)	8686;7664;7662;15310;15443	⊘ 已启动	$\Box \Theta$
	HikCentral Professional Management Service	80;443;18001-18020	⊘ 已启动	$\Box \Theta$
全部停止	Streaming Gateway	554;16003;16000;16001;6678	⊘ 已启动	$\Box \Theta$
	3rd Party Device Access Gateway		❷ 已启动	$\Box \Theta$
Ĵ 全部重启	Extended Device Access Service		❷ 已启动	$\square \Theta$
运行时间:				
0 大 00:03:56				
			✓ 开机启动	➡ 本机部署

At this time, other HikCentral services are running normally, and the active and standby platforms can log in normally.

#### **2.3.2 Deployment of different machines**

HCP 2.4 supports the deployment of databases on different computers. If the deployment is centralized, this section can be skipped

[Note]: Different machine deployment means that the database and HCP

programs are installed on different servers, and the database server and HCP are connected through the network. Other configurations are the same as centralized deployment. The two scenarios of different machine deployment with Rose are as follows:

> When the database is not hot standby, it is shown as follows:



The hot standby deployment of the database is also shown in the following figure:



#### 2.3.2.1 Platform installation and deployment

#### > When the database is not hot standby:

- ✓ At least three servers are required, two of which are used as active and standby machines to install HCP, and the image hot standby is selected, as shown above <u>Centralized deployment</u>, and execute the installation configuration of Rose and HCP image synchronization configuration.
- ✓ The other server acts as the database service manager. When installing HCP, select the following:

HIKV	ISION	Rose Failover Solution HikCentral V2.4	03/2023
			$\mathbf{X}$
	安装服务		
	系统管理服务	客户端	
	流媒体服务	☑ 数据库服务管理器	
	安装模式		
	○ 普通	镜像热备	
	选择数据库安装位置: 所需	空间3GB可用空间61GB	
	C:\Program Files (x86)\Hil	cCentral\VSM Servers\PGData	đ
	选择程序安装位置: 所需学	2间3GB 可用空间61GB	
	C:\Program Files (x86)\Hil	cCentral	
☑ 我	接受 许可证协议		自定义安装 🗸

#### When the database is also hot standby:

Then execute the installation configuration of RoseReplcator Plus and HCP image synchronization configuration.Note that when setting binding data, you only need to check BeeAgent and PGData.

#### 2.3.2.2 Switch to different machine deployment

- Bring Rose
- Refer to the document HCP Database Distributed Deployment

The link is as follows:

https://hiknow.hikvision.com.cn/kms/kms/multidoc/kms\_multidoc\_knowledge/kmsMultidoc

Knowledge.do?method=view&fdId=17e0fd7668bb70e348de2ba43e499e2e

[Note]:

**(1)** When filling in the database whitelist, you need to fill in two IP addresses of the active and standby HCPs.

**(2)** If the database is also hot standby, HCP should fill in the virtual IP of the database hot standby when filling in the database IP.

KVISION		Rose Failover	Solution HikCer	tral V2.4	03/2023
	Agent服务异常	,列表展示服务器状态可能	忆准确。	J.	
服务管理器	⊥ 下载日志	🗟 数据库白名单	₷ 创建备份路径	宁 性能监测	
HikCentral Professional	服务名称		端口号	状态	操作
		数据库白名单		×	
⊖ 全部停止		热备服务器1IP			
▶ 全部重启		热备服务器2IP			
② 安全认证 🕕			确定取	肖	
运行时间:					
0 天 00:00:08					
					<b>√</b> #

## 2.4 SAC Installation Guide

#### This step can be adjusted if SAC is not required.

Install the SAC service on the two servers respectively. Note that the hot standby mode should be selected for installation. If rose is hot standby before installation, it must be taken out before installation. After installation, you can try to visit XX.XX.XX.XX.XX. 9012 in the local browser to see whether you can enter the sac web page. If you can enter, the installation is successful. The first login password is HIK88075998.

[Note]: In the case of hot standby, HCP needs to use virtual IP when adding SAC.



HIKVISIUN	Rose Failover Solution HikCentral V2.4	03/2023
	边缘域存储资源管理调度平台	中文简体
	前後人用户名 4 用户名 ① 密码 2分式	

## 2.5 Installation and configuration of RoseReplcator Plus

## 2.5.1 Installation of Rose software

Install Rose in the same way on the main engine and the standby engine, and the specific steps are as follows:

Run the installation package with administrator privileges, click Next



After entering this interface, continue to click next



🖟 RoseReplicatorPlus for oversea	_		×
Welcome to the Setup Wizard	Ø	Rog	Se
The installer will guide you through the steps required to install RoseReplica your computer.	torPlus f	or oversea	on
WARNING: This computer program is protected by copyright law and intern Unauthorized duplication or distribution of this program, or any portion of it, r or criminal penalties, and will be prosecuted to the maximum extent possible	ational tr nay resul under th	eaties. t in severa le law.	e civil
Cancel < Back		Next	>

Enter the installation wizard and fill in the user name and company name

🛃 RoseReplicatorPlus for oversea			_		×
Customer Information			Ø,	Rog	Sestems
Enter your name and company or organiza for subsequent installations.	tion in the box bel	ow. The installe	r will use	this infor	mation
N <u>a</u> me: HIK					
Organization:					
Hikvision					
	Cancel	< Back		Next	>

You can customize the path for selection, but it is recommended to keep the default.



Anyone who uses a computer can use Rose

RoseReplicatorPlus for oversea	_		×
Select Installation Folder	Ø,	Rog	Setems
The installer will install RoseReplicatorPlus for oversea to the following folde	۲.		
To install in this folder, click "Next". To install to a different folder, enter it be	low or c	lick "Brows	se".
Eolder:			
C:\Program Files\ReplicatorPlus\		Browse	
	C	)isk Cost	
Install RoseReplicatorPlus for oversea for yourself, or for anyone who use	s this co	mputer:	
Everyone			
⊖ Just me			
Cancel < Back		Next :	>

Select the software modules to install according to the actual needs: (It is recommended to install them)

a) The RoseReplicatorPlus for over sea Server module provides Rose services and needs to be installed on the host and standby machines.

b) The RoseReplicatorPlus for overseas Control Center module is a configuration client. It is recommended that both the active and standby computers install the client.

c) The RoseReplicatorPlus for over sea API service module serves as an API interface. It is recommended that both the active and standby machines be installed



🖟 RoseReplicatorPlus for oversea	_		$\times$
Select Installation Features			
Please select which features you would like to install.	Serve Contro API S	r ol Cen ervice	ıter
٤			>
Cancel < Bac	ж	Next	>

Click Next to confirm the installation

😹 RoseReplicatorPlus for oversea	_		×
Confirm Installation	Ø	RO	Se
The installer is ready to install RoseReplicatorPlus for oversea on your corr	puter.		
Click "Next" to start the installation.			
Cancel < Bac	<	Next	>

After reading the progress bar, click Close to complete the software installation

HIKVISIC	Rose Failor	ver Solution HikCentral	V2.4	03/2023
🕌 RoseRep	licatorPlus for oversea	-	-	×
Installa	tion Complete		Ros datasys	See
RoseReplica Click ''Close'	torPlus for oversea has been success ' to exit.	fully installed.		
	Car	ncel < Back	Close	•

[Note]: Try to use RoseReplicatorPlus\_for\_Oversea-5.8.0-1783.22123-Windows-x64 and above. If you are using an old version of Rose, you need to find the X: client RCC folder in the installation path of the Rose software after the installation is completed, right click to open rcc.bat, and add "- advance" at the end of the last line (the content to be added is a character in double quotation marks, with a space at the front). This is to open unconditional takeover, in this way, when the files of the two machines are inconsistent, an exception occurs, and the standby machine can be successfully switched. You need to modify the files in the rose installation directory of the active and standby machines respectively.

₩12₩=1			RCC		
文件 主页 共享	查看				
€ ⊚ - ↑ 🎚 • 5	这台电脑 ▶ 本地磁盘 (C:) ▶ Program Files	ReplicatorPlus 🕨 cli	ient 🕨 RCC		✓ C 搜索"RCC"
☆ 收藏夹	名称	修改日期	类型	大小	
] 下载	鷆 help	2015/7/7 15:58	文件夹		
■ 桌面	퉬 lib	2020/3/24 14:13	文件夹		
🔄 最近访问的位置	🍌 res	2020/3/24 14:13	文件夹		
	🖬 help	2018/3/27 9:39	应用程序	11,229 KB	
▲ 这台电脑	rcc	2018/3/27 9:38	文件	1 KB	
12	🚳 rcc	2018/5/31 15:21	Windows 批处理	1 KB	
두 网络					





	Contegration Hier (Veplicator Prinsto
е	Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
e	
rc	20. batX
1	Gecho off
2	set CURRENT_PATH=%~dp0
3	if NOT EXIST "%CURRENT_PATH%\\jre" (
4	echo Configure for GUI on first started.
5	start "Configure GUI" /D "%CURRENT_PATH%" /I /WAIT /MIN jre.exe
6	
7	if NOT EXIST "%CURRENT_PATH%\help" (
8	if EXIST "%CURRENT_PATH%\help.exe" (
9	start "Configure GUI for help" /D "%CURRENT_PATH%" /I /WAIT /MIN help.exe
10	
11	
12	start /D "%CURRENT_PATH%" /B\jre\bin\javaw -classpath ".\lib\rcc.jar" ControlCenter -advance

## 2.5.2 Configuring RoseReplicatorPlus

#### 2.5.2.1 Network Configuration of RoseReplicatorPlus

Run the Rose client, as shown in the figure, and the configuration wizard will pop up automatically. Follow the prompts to start configuring Rose



Select Add a new Server in the Active Server interface,

Then fill in the host IP (e.g. 10.8.96.17) and Rose's default communication port (i.e.

7330) and click Next to enter the next step





Select the login account in the login window, and select Rose's built-in account: Build in Account by default (user name: admin initial password: admin if you need to modify, please refer to <u>Rose Build in Account Password Modification</u>)

If you select Operating System Account, that is, the operating system user, the user name and password are the server account password. Click OK to complete the login.(You can customize whether to save password and log in automatically)

R Configuration Wizard	×
Configuration Wizard     Active Server	Active Server
<ul> <li>Standby Server</li> <li>Link Configuration</li> <li>Resource Group Name</li> </ul>	Active server is a server whose application service is in active state. At first bringin, you can select an existing server or a new server as Active server. If it is a new server, the configuration wizard will add it to control center.
Local Bind Data     OL ocal Application Policy	⊖ Select a server
OIP Resource	Server: NB-HZ20219289 v
ONT Service Resource     Onfiguration Detail	Login X
	S <u>e</u> rver(E): NB-HZ20219289
	Login Type: Built-in Account
	User Name: admin
	Password:
	Save password Auto Login
	QK Cancel
60	
	Prev Next Einish Cancel



Login	×
S <u>e</u> rver(E):	NB-HZ20219289
Login <u>T</u> ype:	Operating System Account $\sim$
<u>U</u> ser Name:	Administrator
Password:	
✓ Save pase	ssword 🔲 <u>A</u> uto Login
	<u>O</u> K <u>C</u> ancel

After successfully logging in, go to the Standby Server page (the same as the host configuration interface), select Add a new Server, fill in the standby IP (for example, 10.8.96.156) and Rose's default communication port (that is, 7330), and click Next to enter the next step:

🕄 Configuration Wizard	X
© Configuration Wizard	Standby Server
© Standby Server © Link Configuration © Resource Group Name © Local Bind Data © Local Application Policy © IP Resource	Standby server is a server which application service is in standby state. At first bringin, you can select an existing server or a new server as standby server. If it is a new server, the configure wizard will add to control center automatically. Select a server           Server:         PC-PUBGJCP29
ONT Service Resource     OConfiguration Detail	○ Add a new server
	Server: 10.8.96.156
	Port 7330
	Prev Next Finish Cancel

The login interface here is the same as that of the host. You can select the default account or the account of the operating system:

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If you select the default account (username: admin initial password; admin)

If you select an operating system account (the user name and password are the

#### system account password of the server)

Click OK to complete the standby login

#### 2.5.2.2 Rose software authorization activation

In the project, the hardware dongle is usually used to activate the server, and the dongle is inserted into the USB interface of the active and standby computers. If the indicator lights up normally, the step of setting the license will not appear during software configuration, for the test project or if the hardware dongle has not been obtained, you can obtain the host ID of the two hosts and send an email to the rose manufacturer's contact person (wei.ye@rosedata.com) Obtain temporary authorization (valid for 1 month)

R Configuration Wizard	_		×
Configuration Wizard Active Server Standby Server License License	License WIN-A051HHOOTRK The product node authorization is not available	DESKTOP-VGJ411T The product node authorization is not available	
Application Type     Bind Data     Presource     NT Service Resource     Configuration Detail	Host ID: Expiration: License (S)	Host ID: Expiration: License (S)	]
		Prev Next Finish Cano	cel

After obtaining two licenses, please activate the HOST IDs of the active and standby machines respectively according to the activation method shown below.

Click "License (S)", select the Rose License file and import it to complete the activation of the active and standby machines, and click next



🕂 Open		$\times$
Look in(I):	📃 Desktop 🗸 🧳 📴 🗸	
Recent Items	ConeDrive ConeDrive ConeDrive This PC Libraries Network Wireshark	
Documents		
This PC		
Network	File name(N):     Open       Files of type(T):     *.lic	

The expiration time will be displayed after the activation is successful, as shown in the

figure

🕄 Configuration Wizard		×
Configuration Wizard	License	
<ul> <li>Standby Server</li> <li>License</li> <li>Link Configuration</li> <li>Resource Group Name</li> <li>Local Bind Data</li> <li>Local Application Policy</li> <li>IP Resource</li> <li>NT Service Resource</li> <li>Configuration Detail</li> </ul>	NB-HZ20219289 The product node is authorized ID: (Host) EXP.: License (S)	LISTEN The product node is authorized ID: (Host) EXP. License (S)
		Prev Next Einish Cancel

#### 2.5.2.3 Configuring Links

Click Next to enter the configuration link interface



🕂 Configuration Wizard				×
Configuration Wizard     Active Server     Standby Server	Link Conf	iguration		
<ul> <li>License</li> </ul>	Data & Hbt			
© Link Configuration © Resource Group Name © Local Bind Data © Local Application Policy © IP Resource	Туре	NB-HZ20219289	LISTEN	Add(A) Modify(M) Delete(D)
ONT Service Resource     Configuration Detail				
			<u>P</u> rev <u>N</u> ext	<u>F</u> inish <u>C</u> ancel

#### Click Add to add a link

) Configuration Wizard Active Server	Link	Configu	iration				
Standby SNet Config							×
Link Cont Resource Local Bin Docal Apr	⊖ Serial Port	10 - dd-			list so d		I(A)
IP Resou NP H7202	10280	10 9 06 17		not port 2000	ппк роп	Delete	(D)
IND-H2202	19209	10.0.90.17	~	2000	7320	Delete	le(D)
Add Server							
Add Server							
Add Server ☑ HBT	Check interval(s)	2	Max miss pac	kage count 2			
Add Server HBT Data(K)	Check interval(s) Check interval(s)	2	Max miss pac Max miss pac	kage count 2			
Add Server ✓ HBT ✓ Data(K)	Check interval(s)	2	Max miss pac Max miss pac	kage count 2 kage count 2	OK	Cancel	

[Note]:



- ✓ <u>HBT: network as heartbeat communication</u>
- ✓ Data: network as data replication link
- ✓ If there are multiple pairs of heartbeat &data network cards, please add them all
- ✓ Configure two types: local data; local Heartbeat
- ✓ Link configuration suggestions: separate direct network; The IP address is a private network segment; Priority is given to direct network configuration

2.5.2.4 Configure Resource Group Name

**Resource Group Name:** specifies the name of the created application service resource.

The name can be specified arbitrarily, but two application services with the same name

cannot exist in the same cluster.

User defined resource group name, others remain default

Simple Wizard: Simplify the wizard. Check this option to hide arbitration disk, shared disk, file share, process, script and other resources in the wizard configuration

🕄 Configuration Wizard					×
Configuration Wizard     Active Server     Standby Server	Resource Group Name				
© Link Configuration © Resource Group Name	Please specify the name				
Cocal Application Policy	Resource Group Name: TEST				
OIP Resource ONT Service Resource Configuration Detail	Simple Wizard				
		Prev	Next	Finish	Cancel

#### 2.5.2.5 Setting Binding Data

Keep Bind data checked and click Modify



🕂 Configuration Wizard					×
<ul> <li>Configuration Wizard</li> <li>Active Server</li> <li>Standby Server</li> <li>Link Configuration</li> <li>Resource Group Name</li> <li>Local Bind Data</li> </ul>	Local Bind Data Set Bind Data whose ap Bind data Define dataset for repi	ta oplication service is controlle lication	ed		
<ul> <li>Local Application Policy</li> <li>IP Resource</li> <li>NT Service Resource</li> <li>Configuration Detail</li> </ul>	<ul> <li>Rule Path</li> <li>Rule Path</li> <li>Use Data Lock in</li> <li>Delete orphan file</li> <li>Use verify differen</li> <li>Auto Snapshot</li> </ul>	Rule Attributes		>	Modify Batch impor2
			Prev L	<u>l</u> ext <u>F</u>	inish <u>C</u> ancel

Configure the dataset to be synchronized for HCP 2.4

The specific synchronization dataset path is:

Folder Name	Database or Configuration Path			
SYS	\HikCentral\VSM Servers\SYS			
Streaming Gateway	\HikCentral\VSM Servers\Streaming Gateway			
ThirdPluginServer	\HikCentral\VSM Servers\ThirdPluginServer			
www	\HikCentral\VSM Servers\Web Service\www			
ssl	\HikCentral\VSM Servers\Web Service\ssl			
	\HikCentral\VSM Servers\BeeAgent\META_INFO check			
	Note: The following directories and files are not checked:			
BeeAgent	\HikCentral\VSM Servers\BeeAgent\META_INFO\BeeAge			
	nt\runtime_script \PGData			
	\HikCentral\VSM Servers\BeeAgent\META_INFO\ BeeAge			



	nt\ runtime_script_\ComponentD	etail oc	onfig			
	int runtime_script (componentDetail.coming					
	\HikCentral\VSM Servers\BeeAgent\META_INFO\ BeeAg					
nt\ runtime_script \Secertkey.db						
Nginx	Nginx HikCentral\VSM Servers\Web Service\Nginx\conf					
fnood	C:\fnood					
Local storage	According to the configuration in t	he syste	em conf	iguration,	for	
(picture storage,	example, in disk D: D: VSM4. x_Obj	ect;D:\\	VSM4.X	_Picture (	If you	
object storage)	have configured other drive letters, yo	u shoul	d also c	onfigure	hem if	
object stor uge)	you want to see the	ne recor	ds)			
🔀 Configuration Wizard					×	
© Configuration Wizard © Active Server	Local Bind Data					
Standby Server	Set Bind Data whose application service is controlled	3		×	7	
Resource File		Attri	ibute			
© Local Bin		A		^		
		٨				
ONT Servic	⊕ · ☑ ■Plugins_Pro	Â				
Configura	🖶 🗹 💼 Plugins		-			
files der	ee 🖶 🗆 💼 PGData 🦳 Recurse - NotExcludingTarge	etL A				
need to be	u en	A 2 KF	3			
selected	ComponentDetail.config UnRecurse	- N 2 KE	3		odify	
Derected a	CrackInfoThreshold.config	0 KE	3		impor	
	GlobalConfig.config	0 KE	3		impor	
	Install.bat	0 KE	3			
	MasterSlaveSwitch config	2 KF	3			
	✓ ☐ restart.bat	0 KE	3			
	🗹 🚺 restore.bat	1 KE	3			
	···· 🗹 📄 restore.txt	0 KE	3			
	SecretKey.db UnRecurse - NotExclud	ing 12 K	(B	×		
Wildcard Inclusio	n Rules If more than one, separate them by ';', eg: *log	\;lic*\;*.tmp	) ~/	(		
			ОК	Cancel		
	Ose verily dillerence					
	🗹 Auto Snapshot					
		Prev	Next	Finish	Cancel	

Select the above datasets to be synchronized, as shown in the figure



🕂 Configuration Wizard						Х
Configuration Wizard	Local Bind Data					
Standby Server     Set Bind Data whose application service is controlled     Link Configuration     Bind data						
Cocal Bind Data	Define dataset for replication					
O Local Application Policy	Rule Path					
OIP Resource	D:\HikCentral\VSM Servers\SYS\					
ONT Service Resource	D:\HikCentral\VSM Servers\Streaming Gateway\ D:\HikCentral\VSM Servers\ThirdPluginServer\					
Configuration Detail	D:\HikCentral\VSM Servers\Web Service\www\					
	D:\HikCentral\VSM Servers\Web Service\ssl\ D:\HikCentral\VSM Servers\Web Service\Nginy\conft					
	C:\fnood\					
	D:\HikCentral\VSM Servers\BeeAgent\META_INFO\			Moo	dify	
	D:\HikCentral\VSM Servers\BeeAgent\META_INFO\BeeAge	nt\runtime_scr	ipt\P(	Batch i	mpor	
	D:\HikCentral\VSM Servers\BeeAgent\META_INFO\BeeAge	nt/runtime_scr				
	D:\VSM4.x Picture\		iptiot			
	D:\VSM4.x_Object\					
65	<		>			
	Use Data Lock in Standby Server					
	Delete orphan files when verifying or mirror					
and the second se						
	M Auto Snapshot					
	Prev	Next	Finis	sh	Cancel	

#### [Note]:

- Please select the above folders separately. Do not check the entire "VSM Servers" folder at one time.
- 2) After the platform is installed and started, a local storage folder will be generated on the disk with the largest free space except the system disk. At this time, you need to set the VSM4. x\_Picture and VSM4. x\_The object folder is also added to the synchronization dataset

If the drive letters of the image storage folders in the active and standby computers are different, go to the local login platform and modify them to the same drive letters in the System Storage Storage on SYS Server.

If you add a customized storage resource pool to another disk, you also need to add the VSM4. x The object folder is added to the synchronization dataset.



88	C HikCentral Professional	Web Client Resource Management	System Configuration $G \times G$			
=	System Configuration	Storage on SYS Server				
88	Normal 🗸					
Ø	Network 🗸	Local Storage Configuration  Enable Local Storag	e <b>()</b>			
E	Storage ^	Picture Storage				
	Storage on SYS Server		<ol> <li>The stored pictures include pictures config</li> </ol>	ured by users and pictures uploaded by resources	which are	
	Data Retention Period		stored on the local server.			
		Storage Location	n Disk (2)			
	Email 🗸		c\	D:\		
Ð	Security ~		(0.00 Euro - (.200.00	163 69 500 1 335 69		
$\bigcirc$	Third-Party Integration		60 GB FREE 01 200 GB	162 GB Free OF 270 GB		
$\heartsuit$	Advanced ~	Set Quota for Picture	s 💽			
£	Company Information	*Storage Quot	a 5		GB	
		File Storage	<ul> <li>File storage: store video and audio files con</li> </ul>	nfigured on the platform.		
		Resource Poo	Add 🗐 Delete			
			Name	Overwrite Strategy	Remaining/Total Capacity (GB)	Operation
			vsm_local_pool	Overwrite by Capacity	162/276	0
			Save			

- Starting from HCP 2.3, Rose does not need to check PGData when deploying data synchronization sets
- 4) If SAC component service is installed, select the folder that needs to be fully synchronized on the two servers. Generally, you can select two component directories: StorageAccessComponent sac bin sam conf and StorageAccessComponent mdb data.
- 5) If OpenAPI service is installed and HCP and OpenAPI are on the same server (to be installed as administrator), the following data sets need to be synchronized during hot standby

Folder Name	Database or Configuration Path
artemis	\HikCentral\VSM Servers\OpenAPI\artemis\bin\artemis
redis	\HikCentral\VSM Servers\OpenAPI\redis
minio	. HikCentral VSM Servers OpenAPI minio All folders except logs and bin minio logs
OpenDataServer	\HikCentral\VSM Servers\OpenAPI\OpenDataServer

6) When OpenAPI and HCP are not deployed on the same server, hot standby is usually not required. If hot standby is required, you need to install rose to hot standby OpenAPI; If you modify the SK information, you need to modify the SK on the watchdog interface on the active and standby computers, or you may not be



able to add OpenAPI

Folder Name	Database or Configuration Path			
artemis	. HikCentral VSM Servers OpenAPI artemis bin artemis (remove			
	artemis portal and artemis web from the bin folder of the artemis			
	subdirectory)			
redis	\HikCentral\VSM Servers\OpenAPI\redis			
minio	All folders except logs under. HikCentral VSM Servers OpenAPI			
	minio			
OpenDataServer	\HikCentral\VSM Servers\OpenAPI\OpenDataServer			

7) In HCP 2.3 and later versions, the watchdog service and the watchdog interface are started at the same time in the active and standby servers. If the synchronization of relevant binary and other data under the service path is checked when configuring data synchronization, Rose will force kill the standby watchdog program to ensure normal data synchronization. Therefore, BeeAgent data synchronization must be configured in strict accordance with the policies in data synchronization, otherwise the watchdog program will be closed abnormally.

#### 2.5.2.6 Setting Local Application Strategy

In the Policy interface, select the 'Take over' when data logic is consistent option, and enable the Launch reverse data backup connection when data logic is consistent option. Make sure that after the host goes down, the standby machine takes over the host's services, and new data is generated during the service operation. After the host returns to normal operation, the standby machine can synchronize the new data to the host. If not checked, the data cannot be synchronized back.



🕂 Configuration Wizard	×				
<ul> <li>Configuration Wizard</li> <li>Active Server</li> </ul>	Local Application Policy				
Standby Server	🖂 🖂 Shutdown takeover —				
Link Configuration	When HBT timeout, after wait 45 S shut down take over operation.				
Resource Group Name     Accel Bind Data	Take over when data is completely consistent and launch reverse data backup connection				
© Local Application Policy	Take over when data logic is consistent				
OIP Resource					
ONT Service Resource     Oconfiguration Detail	When data difference of active server 1 KB,standby server won't take over applicatio				
	When data difference info update time 30 s,standby server won't take over applications				
	☐ Launch reverse data backup connection when data logic is consisten				
	Take over unconditionally and launch reverse data backup connection				
	Prev Next Finish Cancel				

#### 2.5.2.7 Setting IP resources

- Click Next to enter the interface for setting IP resources
- Select the service IP of the host and standby machine, namely 10.8.96.17 and 10.8.96.156, and then set the active IP in the Resource (please fill in the unused IP address to ensure that the IP address does not conflict), that is, the virtual IP (used for external clients to access HCPs)
- Click Add to add



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Resource				
NIC				
Server Name: NB-HZ20219289		Server Name:	PC-PUBGJCP29	
NIC List	NIC List			
WLANZ DHCP		☑ 以太网	10.8.96.156	
Npcap Loopback Adapt			Up	
WLAN 109.254.93.9			Down	
	Down			Down
Auto replace MAC 0C-02-07-15-2	23-48			
NIC group detail information:				
Server			NIC	
NB-HZ20219289	以太网;			
PC-POBGJCP29	UAM,			
Resource				
IP				
IPv4 O IPv6				
IP Address: 10. 8. 96.199	P Address: 10. 8. 96.199		255. 255. 255. 0	
SkipasSource except ActiveIP				
Replace IP Auto switch back I	Р			
Set Alias Resource				
Resource				
Alias Name:				
			OK	Cancel

[Note]: The virtual IP and the service IP of the active and standby machines must be the same network segment. Before setting, make sure that the virtual IP is not used to avoid IP address conflicts

Only the option of "Only send packets using the active IP as the source address" is selected here, which is configured according to the actual environment requirements. The virtual Mac address, replacement IP address and alias are configured according to the actual situation.



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IP Resource	×
NIC	
Server Name:         NB-HZ20219289           NIC List            以太网 2 0.0.0.0            WLAN 2 DHCP         Up           Npcap Loopback Adapt            WI AN 169 254 93 9	Server Name: PC-PUBGJCP29 NIC List ☑ 以太网 10.8.96.156 Up Down
Auto replace MAC 0C-02-07-16-04-59 NIC group detail information:	
Server	NIC
NB-HZ20219289 以太网; PC-PUBGJCP29 以太网;	
Resource IP IP IPv4 O IPv6	
IP Address: 10. 8. 96. 199	IP Mask: 255.255.255.0
SkipasSource except ActiveIP	
Set Alias Resource     Resource     Alias Name:	
	OK Cancel

## 2.5.2.8 Setting NT Service

Continue to click 'Next' to enter the NT service setting interface


02	120	122
03	/20	123

R Configuration Wizard					×
Configuration Wizard	NT Service Resour	rce			
Standby Server	Configure NT Service Resource				
OL ink Configuration	Display Name	Service Name	Start Time out	Stop Timpout	Priority
Resource Group Name	Display Name	Service Marine	Start Hilleout	Stop Timeout	Filolity
Local Bind Data					
Local Application Policy					
O IP Resource					
ONT Service Resource					
Configuration Detail					
	<u>P</u> arallel <u>U</u> p	Down	<u>A</u> dd	<u>Remove</u> Bate	th impo
			Prev Next	<u>F</u> inish	<u>C</u> ancel

Click Add, add NT services according to the following list, and then click OK

NT Service Name	Priority	remarks
StateService	1	
		Configure the active and
		standby machines to start at
BeeAgent Service	2	the same time, and stop at
		the same time when they
		are brought out





You can select it here and adjust the order according to the actual priority. Here, the priority of StateService is higher.

#### 2.5.2.9 Configuration details

After configuring the NT service, click Next to go to the configuration details interface, where you can see the configured details. Please check whether they are correct, and then click Finish to complete the configuration.





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#### 2.5.2.10 BeeAgentNT Service Attribute Configuration

After clicking Finish in the wizard, the normal Rose client will display the following

status



2023-03-07 15:42:17 | Create the resource (NT-BeeAgent) in the resource group (TEST) successfully. [NB-HZ20219289]
 2023-03-07 15:42:17 | Create the resource (NT-StateService) in the resource group (TEST) successfully. [NB-HZ20219289]

Find the NT service and BeeAgent service in the upper right corner. Right click, select

Properties, and select Resource Parameters



Modify the NT service attribute to start the primary and standby machines at the same time, and stop them when they are brought out



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NT Service Resource		×	:
NT Service Resource Parameter Additional Script			
Resource Parameter			
Start Timeout(s): 240	•	s	
Stop Timeout(s): 240	•	s	
Start Delay: 0	•	s	S
Monitor Param			
Detect Interval: 5	÷s	3	
Resource error, delay time: 5 S			
Resource restart configuration of active server The max restart counts of resource: 3 ; reset over 10 = minutes.			
Auto clear resource error flag Auto clear resource error flag every 60 — minutes. Max clearing count 3 —			
Active and standby server start simultaneously			
ОК С	ancel		

# **3** HikCentral Platform Configuration

# 3.1 Establishment of database hot standby relationship

 Enter Rose, enter the service IP of the standby machine in the watchdog interface of the host machine (or enter the service IP of the host machine in the watchdog interface of the standby machine), and enter the service IP of the host machine in the watchdog interface of the standby machine.(<u>The standby machine will display</u> the password by default, as shown in the figure below)

HIKVISIO	<b>DN</b>	Rose Fa	ilover Solution HikCer	ntral V2.4	03/202
	an a		Z 🖉 Everyanny		0.0 33.2 10 0 0
	业 下载日志	しん しゅうしゅう しん しゅうしゅう しゅう	- 性能监测 🛛 影 数据库异常自恢复	配置 🕕	,
服务管理器	服务名称		端口号	状态	操作
HikCentral Professional	> System Management	Service(SYS)	8686;7664;7662;15310;15443	⊘ 已启动	$\square$ $\Theta$
	HikCentral Profession	nal Management Service	80;443;18001-18020	⊘ 已启动	
	Streaming Gateway		554;16003;16000;16001;6678	⊘ 已启动	$\Box \Theta$
	3rd Party Device Acc	ess Gateway		⊘ 已启动	ΞΘ
う 全部重启	Extended Device Acc	ess Service		⊘ 已启动	$\square$ $\Theta$
运行时间:					
0 天 06:02:09					

2) Configure the IP information and password of the standby machine on the host

热备服务器			×
	Ø	2	
	基本信息	设置密码	
密码 *			
•••••	•		Ŕ
			强
ConfirmPa	ssword *		
•••••	Þ		Ŕ
上一步		完成	取消

3) Enter the IP address of the host in the watchdog interface of the standby machine



热备服务器IP 10.8.96.156 密码 ★	器IP 156 ●● \@
10.8.96.156 密码 *	•• 🕸
密码 *	••
	•• ه
•••••••	

[Note]: The standby machine only needs to configure the IP address, and does not need to manually configure the password. After the password configuration is synchronized by Rose, it is automatically filled in the interface. After the standby machine is configured, confirm whether the hot standby relationship is established normally through the hot standby status on the interface. Hot standby status is as follows:

State	Describe	Occurrence location
	The database hot standby relationship is	Main and
🗐 Hot Spare Database 🕑	normal. That is, the host data is synchronizing	standby
	with the standby machine	units
	The database hot standby relationship is being	Ctore Illege
🗐 Hot Spare Database 🔆	established. The standby machine is acquiring	Standby
	data from the host	machine
	The database hot standby relationship is	Main and
🗐 Hot Spare Database 😣	abnormal.Namely, the query of hot standby	standby
	status failed	units

The status displayed by the host after configuration is completed is as follows:

HIKVISI	ON Rose Fa	ailover Solution HikCer	ntral V2 4	03/2023
		anover Solution Theeer	11101 12.4	03/2023
				×
	达 下载日志 💿 热备数据库 🔍 🔮 🖯	🖓 性能监测 🛛 🕄 数据库异常自恢复	配置 🕕	
服务管理器	服务名称	端口号	状态	操作
HikCentral Professional	> System Management Service(SYS)	8686;7664;7662;15310;15443	⊘ 已启动	$\square$ $\Theta$
	HikCentral Professional Management Servic	e 80;443;18001-18020	❷ 已启动	$\square$ $\Theta$
⊖ 全部停止	Streaming Gateway	554;16003;16000;16001;6678	❷ 已启动	$\square$ $\Theta$
	3rd Party Device Access Gateway		❷ 已启动	$\square$ $\Theta$
▶ 全部重启	Extended Device Access Service		❷ 已启动	$\square$ $\Theta$
运行时间:				
1 大 02:55:03				
			×	开机启动 📥 本机部署

# **3.2 License Activation**

Ensure that the virtual IP login platform can be used after the service runs normally (the password needs to be reset first)

Activate the license, check Hot Spare, select the host and fill in the standby IP, or select the standby and fill in the host IP

Activa	te License	
Activation Ty	pe	
	Online Activation The SYS to be activated can connect to the Internet.	
	Offline Activation The SYS to be activated cannot connect to the Internet.	
Activation Co	ode	
✓ I accept t Machine Env	the term Hikvision Software User License Agreement	
Physical Ma	achine	
Hot Spar	e st 💿 Spare	
*Host IP Add	Iress	
10.8.96.17		
Activate	Cancel	

[Note]: HikCentral only needs to activate the host or standby machine. The active and standby machines share the license code. Multiple licenses only need to be activated on the host or standby machine.

#### 3.3 Active and standby server configuration

#### 3.3.1 Hot standby configuration

 Open the HCP server, click Basic Configuration system configuration, and click System to enter the system configuration interface

<b>^</b>	Video Access Control	Parking Lot Visitor	Intelligent Analysis	Attendance	Event and Alarm	Person	Account and Security
ral I	Quick Start	Enter the product na	me to quickly find the pro	duct.			Q
(\$)	You can customize navigation menu.	Basic Management					
5	Access Control	📖 Device		*	Q Person		*
grou	Parking Lot	🕮 Vehicle			Account and Security	ity	*
Gro	Visitor	දිල්} System			X Maintenance		*
	Intelligent Analysis	Security Monitorin	g				
	Attendance	▶ Video		*	🕞 Visual Map		
	Event and Alarm	Event and Alarr		*	🔬 Evidence Managen	nent Center	
	Person	Passing Manageme	ent				
	Device	Access Control		*	R Visitor		*
	Maintenance	P Parking Lot		*			
	Menu Settings	Video Intercom					
00		Operation Analytic	s				
	Icon Menu	Intelligent Anal		*			
		Integrated Service					
0		Attendance		*			

#### 2) Find Advanced on the left, select Hot Spare, and open the hot spare configuration

♦ HikKentral Professional ↑ ** Video Access Control Parking Lot Visitor Intelligent Analysis Attendance Event and Alarm Person Account and Security Or   System Image: Control Cont	IKVISI	0	N	Ro	se Failo	ver Solutior	n HikCentral V2.	4	03/202
System Image: Provide the system has been configured with hot spare with other system, after setting the related hot spare settings, you can find out that the server running is host or spare server in Health Monitoring.   Image: I	🎯 HikCentral Professional 🛛 🏦	::	Video A	ccess Control Parking Lo	ot Visitor	Intelligent Analysis	Attendance Event and Ala	rm Person Accou	nt and Security Device
<ul> <li>Normal</li> <li>Network</li> <li>Storage</li> <li>Email</li> <li>Scurity</li> <li>Server Name (Running)</li> <li>Diagnosis &amp; Maintenance</li> <li>Diagnosis &amp; Maintenance</li> <li>Workbench Management</li> <li>Workbench Management</li> </ul>	System	Ē	Hot Spare						
<ul> <li>Network</li> <li>Network</li> <li>Storage</li> <li>Enal</li> <li>Security</li> <li>Security</li> <li>Server Name (Running)</li> <li>pc-pubgicp29</li> <li>Advanced</li> <li>Available IP Address</li> <li>10.8.96.196</li> <li>192.168.1.3</li> <li>192.168.2.3.1</li> <li>193.168.2.3.1</li> <li>193.168.2.3.1</li> <li>193.168.2.3.1</li> <li>194.168.2.3.1</li> <li>194.168.2.3.1</li> <li>194.168.2.3.1</li> <li>195.168.2.3.1</li> <li>194.168.2.3.1</li> <li>194.168.2.3.1</li></ul>		~							
<ul> <li>Storage</li> <li>Storage</li> <li>Insil</li> <li>Ensil</li> <li>Security</li> <li>Server Name (Running) pc-pubgicp29</li> <li>Advanced</li> <li>Advanced</li> <li>Dagnosis &amp; Maintenance</li> <li>Event Tracking Information</li> <li>Hot Spare Property</li> <li>Hot Server</li> <li>Spare Server</li> <li>Spare Server</li> <li>After configuration, the server that is not running is the spare server.</li> </ul>		~			If HikCentra other syste out that the	al Professional system h ms, after setting the rel	as been configured with hot spar ated hot spare settings, you can f	e with ind	
Image: mail   Image: mail </td <td></td> <td>~</td> <td>Г</td> <td></td> <td></td> <td></td> <td>or spare server in ricard monitor</td> <td>- ig.</td> <td></td>		~	Г				or spare server in ricard monitor	- ig.	
Security       Server Name (Running)       pc-pubglcp29         Third-Party Integration       Available IP Address       10.8.96.156         Advanced       10.8.96.199       10.8.96.13         Hot Spare       192.168.1.3       192.168.23.1         Diagnosis & Maintenance       192.168.74.1       192.168.74.1         Event Tracking Information       Hot Spare Property       Hot Server         Spare Server       Spare Server       Spare Server         Workbench Management.       After configuration, the server that is not running is the spare server.		~	L	Hot Spare Configuration					
Notestand       ✓         Advanced       No.896.156         Dolagnosis & Maintenance       10.896.199         Event Tracking Information       192.168.1.3         Reset Network Information       Hot Spare Property         Workbench Management.       ● Anter configuration, the server that is not running is the spare server.		~		Server Name (Running)	pc-pubgjcp29				
Advanced       10.8.96.199         Hot Spare       192.168.1.3         Diagnosis & Maintenance       192.168.74.1         Event Tracking Information       Hot Spare Property         Reset Network Information       Hot Spare Property         Workbench Management       Spare Server         Workbench Management       After configuration, the server that is not running is the spare server.		~		Available IP Address	10.8.96.156				
Hot Spare     192.168.1.3       Diagnosis & Maintenance     192.168.233.1       Event Tracking Information     Hot Spare Property       Reset Network Information     Hot Spare Property       Workbench Management     Spare Server		^			10.8.96.199				
192.168.233.1       Diagnosis & Maintenance     192.168.74.1       Event Tracking Information     Hot Spare Property       Reset Network Information     O Spare Server       Workbench Management     O After configuration, the server that is not running is the spare server.	Hot Spare				192.168.1.3				
Diagnose & Maintenance     192.168.74.1       Event Tracking Information     Hot Spare Property       Reset Network Information     O Spare Server       Workbench Management     O After configuration, the server that is not running is the spare server.					192.168.233.1				
Event Tracking Information     Hot Spare Property     Hot Server       Reset Network Information     O Spare Server       Workbench Management     O After configuration, the server that is not running is the spare server.	Diagnosis & Maintenance				192.168.74.1				
Reset Network Information     O Spare Server       Workbench Management     O After configuration, the server that is not running is the spare server.				Hot Spare Property	Host Serve	r			
Workbench Management     O After configuration, the server that is not running is the spare server.					O Spare Serve	er			
					After config	guration, the server that	is not running is the spare server		
E Company Information Save					Save				

 Click the hot standby attribute, and select the machine that does not run as the host/standby machine according to the actual situation

Hot Spare Property	◯ Host Server
	Spare Server
	① After configuration, the server that is not running is the host server.

# 3.3.2 Configure server address

Click Network, select Address for Receiving Device Info, and then manually enter the virtual IP of Rose previously configured. Otherwise, the local file storage function will be abnormal

IKVISI	0	$\mathbf{N}$	Ro	ose F	ailover So	olution H	IikCentra	1 V2.4	ļ		03/20	023
🙆 HikCentral Professional 🛛 🏠		Video Access Control	Parking Lot	Visitor	Intelligent Analysis	Attendance	Event and Alarm	Person	Account and Security	Device	Maintenance	
System	₫	Address for Receiving	Device Info									
🛞 Normal	~											
🖉 Network	^		IP Address O	Set from N	vic ually							
NTP								_				
Active Directory			10.8	8.96.199								
Device Access Protocol				Save								
Hik-Partner Pro Access												
WAN Access			Man	uall	y enter the	vitural :	ip address	here.				
Address for Receiving Device Info												
🗒 Storage	~											
🖗 Email	~											
Security	~											
Third-Party Integration	~											
	~											
Workbench Management												
Company Information												

# 4 HikCentral deployment after installation

# 4.1 HCP 2.4 single machine is configured as Rose dual machine

# hot standby

This situation applies to HCPs that have been in normal use for a period of time and then want to deploy Rose

#### [Note]:

- The active and standby computers must ensure that the system disks are under the same drive letter. If the system disks of the active and standby computers are under different drive letters, the paths of the fnood of the active and standby computers will be different, which will cause the data backup of fnood to fail.(The default fnood folder is in the C directory of the system disk)
- Do a good job of the original data backup of the host to avoid the loss of the original platform data caused by the mis-operation of the backup machine's data to the host when Rose brings it in later.

Platform database storage path: X: HikCentral VSM Servers PGData

Run the HikCentral installation package on the standby machine and select Custom mode for installation. Select the installation directory and ensure that it is the same as the installation path of the host. During installation, check the "Mirror Hot Spare" mode and click Install. After the installation is completed, run the BeeAgent Service for the first time to bring all the services of the platform together, and ensure that the fnood folder is generated in the root directory of disk C; Then enter the BeeAgent client to stop all services and exit the BeeAgent client; enter the service page, stop the BeeAgent Service and change the startup mode to manual

#### **4.1.1** Host configuration

 Open CMD with administrator permission, cd to the following path: X: Hik Central VSM Servers BeeAgent META\_INFO (disk D is taken as an exam ple here, and the default HCP is installed on disk C), and then execute Up dateRoseDeploy.bat

```
C:\Windows\system32>d:
D:\>cd HikCentral\VSM Servers\BeeAgent\META_INFO
D:\HikCentral\VSM Servers\BeeAgent\META_INFO>UpdateRoseDeploy.bat_
```

[Note]: If HCP and SAC are installed together or HCP and OpenAPI are instal led together, you need to manually modify the "UPDATE" "0\_0" "0\_0" "" 1 "> null 2>null in the UpdateRoseDeploybat script. There are three fields," 0\_0 "" 0\_0 "" "" 1 ", and the second word" 0 "\_0 "is changed to HikCentral VSM S ervers BeeAgent META\_INFO\BeeAgentGUI\runtime\_<ServiceType>0 in Setup.x ml under script path\_0</ServiceType>the same field, then restart the BeeAgent service and execute the script UpdateRoseDeploy.bat



🧊 UpdateRoseDeploy.bat - 记事本									
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)									
@echo off echo begin upgrade rose deploy . ::update rose deploy mode									
call ".//Preinstall.exe" "UPDATE" "0_0" "0_0" " "1" >nul 2>nul									
<pre>::query result sc query StateService &gt; nul 2&gt; nul if "%errorlevel%" EQU "0" (</pre>									
) else (									
echo upgrade rose deploy mode failed, please upgrade rose manually.									
*D:\Work\CodeRepo\Bumblebee\service\BeeAgent\trunk\META_INFO\BeeAgentGUI\runtime_script\Setup.xml - Notepad++ [Administrator]									
e Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?									
🖶 🖶 🖫 🕼 🍐 🎸 🐚 ங   ⊃ ⊂⊂  /# 🎭   🤏 👒   🖳 🖳 🔜 1 🎼 🖉 💹 🖉 📼 ⊙   • ● 🗉 🕨 🔤   型 💕									
MultipleLanguage. xml区 🔚 new 1区 🔚 BeeAgertRoseBusiness. txt区 🔚 Setup. xml区 📑 Setup - 副本. xml区 🔚 Setup. xml区									
<pre>1 &lt;2xml version='1.0' encoding='UTF-8'?&gt; 2 = <configs version="4.0.0.0"></configs></pre>									
3 ⊂ <autolaunca> 4 &lt; (=-auto login node&gt;</autolaunca>									
5 <value>1</value>									
6 -									
7 C <rose></rose>									
8 == rose 1-rose									
(!0 0:SYS,0 3:数据库服务器,1 x:(取消),2 0:SMS,3 0:OpenAPI,4 0:SAC,5 0:HCP-AC>									
.2 C <installnode></installnode>									
<pre>.3 <servicetype>0_0</servicetype></pre>									
<pre>// / / / / / / / / / / / / / / / / / /</pre>									
l6									

2) The following words indicate that the hot standby service has been successfully installed



3) View the service list. If you see StateService, it indicates that the hot standby service

has been successfully installed



闷 任务管理器					-	
文件(F) 选项(O) 查看(V)						
进程 性能 应用历史记录	启动 用户	详细信息 服务				
名称	PID	描述	状态	组		
🔍 smphost		Microsoft Storage Spaces SMP	已停止	smphost		
🔍 SmsRouter		Microsoft Windows SMS 路由器	已停止	LocalService		
SNMPTRAP		SNMP 陷阱	已停止			
SogouSvc		搜狗輸入法基础服务	已停止			
🔍 spectrum		Windows 感知服务	已停止			
🔍 Spooler	5092	Print Spooler	正在运行			
🔍 sppsvc		Software Protection	已停止			
SQLBrowser		SQL Server Browser	已停止			
SQLSERVERAGENT		SQL Server 代理 (MSSQLSERVER)	已停止			
SQLTELEMETRY	7328	SQL Server CEIP 服务 (MSSQLSE	正在运行			
🔍 SQLWriter	6168	SQL Server VSS Writer	正在运行			
SSDPSRV	43484	SSDP Discovery	正在运行	LocalService		
🛸 ssh-agent		OpenSSH Authentication Agent	已停止			
🔍 SstpSvc	6440	Secure Socket Tunneling Protoco	正在运行	LocalService		
StateRepository	2652	State Repository Service	正在运行	appmodel	_	
StateService	44524	StateService	正在运行			
👫 stisvc		Windows Image Acquisition (WIA)	已停止	imgsvc		
StorSvc	17764	Storage Service	正在运行	LocalSystem		
STREAM	14620	BeeStream Media Service	正在运行			
🔍 SunloginService		SunloginService	已停止			
🔍 svsvc		Spot Verifier	已停止	LocalSystem		
🔍 swprv		Microsoft Software Shadow Cop	已停止	swprv		
🔍 SYS	35312	BeeSYS	正在运行			
🔍 SysMain	3668	SysMain	正在运行	LocalSystem		
🔍 SystemEventsBroker	1000	System Events Broker	正在运行	Dcoml aunch		

4) Open the service manager and change the HCP related services such as the BeeAgent service to manual (BeeSYS, BeeAgent, BeeStream Media Servic e, PostgreSQL, 3rd Party Device Access Gateway, Extended Device Access Service;). If it is OpenApi, you need to change the artemis and OpenDataS erver services to manual. If it is SAC, you need to change the BeeSacCom monServer, BeeSacSamServer, and sac\_Change the mdb service to manual

()营理(本約)	() 82.0L										
系统工具	Restaurt familes	4 Pr	100.0	-	(DODA)						
)任务计划程序	BeeAgent Service		19922	80D	111-3/19/52	1 10.00					
事件查看器	(四)()()()()()()()()()()()()()()()()()()	Microsoft Edge 更新 服	125Fait		日37)(昭	5 本地系统					
其事文件夹	原启动此服务	Microsoft Edge Egit Me-	使何~~		手动(数	史 本地系统					
基本地用户和组		An Active X Installer (Axinstsv)	75.0	Ter	手切	中国新的					
住範	and a	Agent Activation Runtime	Runt.	ILC	(PN)	4.55.01					
设备管理器	distributed deployment and	Alboyn Router Service	1000		±30)0	BeeAgent Servic	ce 的属性(本地计算机)				×
B	upgrade service.	App Readiness	14/0								
<b>截量管理</b>	177000000000	an Application Identity	(#E)	The	±300	常規 登录	恢复 依存关系				
12/10/12/19		Application Information	TEPE-	ILC."							
MAAL STUFF		Capitation Layer Gatewa	25 In		(	服务名称:	BeeAgent				
COL Canvar BURGTER		Con Application Management	75/2-	10.00	+-4) ======	8246.	Restant Cani				
A prin perver MUERIEN		Contract of the services	Assi.	TIG.		W. C. Baby	beengent servi	ue.			
		Aucto Bitt	10 1	TTT	- 303(R	(第)年:	distributed dep	loyment ar	nd upgrade s	ervice.	
		Anural Hart Capita	10.20.1	TFE							
		Rackaround Intelligent T	(#III	TE	m =====						
		Background Tasks Infras-	10.01	THE.	<b>田</b> 切	可执行文件的制	新圣				
		C. Rase Filtering Engine	25.2	TA	(D 50)	*D:\HikCentra	al\VSM Servers\BeeA	gent\BeeA	gent\BeeAge	nt.exe* "-servi	ń
		BeeAgent Service	distr IEE	IFT.	重动	DON NO.	<b>X</b> 24			7.94	_
		BitLocker Drive Encryptio	BDF	10.00	王印度	10120396222(E):	手切			· · · ·	1
		Block Level Backup Engl	Win-		#3D						_
		Bluetooth User Support	The		≣sha						
		BranchCache	e#		手动	-	1000 C				
		CaptureService 16d642	为酒		手动	服务状态。	正任認行				
		Certificate Propagation	終用	正在	手动的	ER PAYON	のため	270	5/21	10-107/01	1
		CGEDataService	CGE	正在	自动	2000	(7.11.07)	6215	ry y	10610	6
		Client License Service (Cli	提供		手动体	当从此处启动制	<b>最多时,你可指定所适</b> 时	制的自动争奏	α.		
		CNG Key Isolation	CNG	正在	手动的						
		COM+ Event System	支持	正在	自动						
		COM+ System Application	<b>11</b> 39		手动	启动参数(M):					
		Connected User Experien	日连	正在	自动						
		ConsentUX_16d642	允许		手动						
		Contact Data_16d642	为既…	正在	手动			10.00	Rolas	(中田)人	
		CoreMessaging	Man	正在	自动			PERE		3451125	
		Credential Manager	为用	正在	手动	本地系统					
		CredentialEnrollmentMan	凭缀		手动	本地系统					
		Cryptographic Services	提供	正在	自幼	网络服务					
		Data Sharing Service	提供		手动(触	党 本地系统					
		In DCOM Samer Process I a	000	17.22	m eh	<b>太陽茶絵</b>					

#### 4.1.2 Rose installation and deployment

Deploy and install Rose on the standby machine of the host according to the above configuration. At this time, there is no difference between the steps of deploying Rose and installing HCP. Please refer to <u>Sections 2.5.1 and 2.5.2</u>.

[Note]: Just run the Rose configuration wizard on one of the hosts or standby machines, run Rose on the hosts or standby machines, and log in to the Build in Account of the active and standby machines.

The configuration is completed as shown in the figure below:



#### 4.1.3 HCP Configuration

- ✓ Log in to HCP using the host IP, record and deactivate the license
- ✓ Reference Section 3.2 When the license is activated again, select the hot standby mode and specify the active and standby IP addresses as appropriate.
- ✓ Reference <u>Section 3.3</u>, complete the configuration on the HCP.(There is no difference between the configuration in step 2 and that in the newly installed platform)

# 4.2Upgrade the low version hot standby to HCP 2.4 hot standby

Open the Rose client, right click Bring out to bring out Rose, and upgrade the HCP on

the active and standby machines respectively. For specific upgrade steps, please refer to HCP Platform Upgrade and Data Migration Operation Guide

Hiknow link is as follows:

https://hiknow.hikvision.com.cn/kms/kms/multidoc/kms\_multidoc\_knowledge/kmsM\_ultidocKnowledge.do?method=view&fdId=183440d426a7d4f3eba68ac44cb86fef

#### 4.2.1 Upgrade HCP 1. X hot standby to HCP 2.4 hot standby

Because the overall architecture of HCP version 1. X is quite different from that of HCP version 2.4, you need to manually modify the Rose configuration item after upgrading to version 2.4. The 1. X database uses PostgreSQL version 9.6.13, while the 2.4 database uses PostgreSQL11.8. Therefore, if you are upgrading to version 1. X hot standby, please contact the delivery colleague of the corresponding research and development center.

#### To view the HCP PostgreSQL version:

Open the task manager, find the PostgreSQL process, right-click to open the system service manager, find PostgreSQL in the service list, right-click to open the properties, and view the executable path: if PostgreSQL9.6 is displayed, the old version of PG will be used; if 11.8 is displayed, the new version of the database will be used.

() BOAY minutes								
(CC-91/4-702)	-	-	10		-			
PostgreSQL	名称	推送	1	(否) 启动类	2		登录为	
The state of the s	Peer Name Resolution Pr	使用对等名称解析协议(PNRP)在 Interr	et 上启用无服务	手动			本地服务	
711.0L4099 [明計編集	Reer Networking Groupi	使用对導分弧但用多方邊信。如果發用	§功能,夏些应用	手动			本地服务	
自动此服务	Peer Networking Identity	向对等名称解析协议(PNRP)和对等分组	服务提供标识服务	手动			本地服务	
	Performance Counter DL	使远程用户和 64 位进程能够查询 32 位	EDLL 提供的性能	手动			本地服务	
	Performance Logs & Aler	. 性氣日志和醫报根擬發配置的计划多数	1.4.44.0000.021.1.98	16.04			本地服务	
	Phone Service	在设备上管理电话服务状态	PostgreSQL 83團性(本	地は貫む)		×	本地服务	
	Q Plug and Play	使计算机在极少或没有用户输入的情况	9710 mm (	ARME			本地系统	
	PNRP Machine Name Pu	此服务使用对等名称解析协议发布计算		1 10行大会	117.X.36		本地服务	
	Rortable Device Enumera	强制可移动大容量存储设备的组策略。	服务全约	lortore 501			本地系统	
	Q PostgreSQL		00.994-104	osigresiąc			本地系统	
	Power	管理电源策略和电源策略通知传递。	显示名称:	PostgreSQL			本地系统	
	Chief Print Spooler	该服务在后台执行打印作业并处理与打					本地系统	
	Printer Extensions and N	此服务可打开自定文打印机对话框并处	編述:		1 /	~	本地系统	
	PrintWorkflow_d87e969a	提供对打印工作流应用程序的支持。刘		1		W.:	本地系统	
	Problem Reports Control	此服务支持查看、发送和删除"问题报(		1			本地系统	
	Regional Compatibility A	此服务为程序兼容性助手(PCA)提供支	CIRCI-0745807836-				本地系统	
	pStor-postgresql-x64-11		*D:\HikCentral\VSM	A Servers\Pos	tgreSQL11.8\bin\pg	ctl.exe" runservice	本地系统	
	Quality Windows Audio V	优质 Windows 音频视频体验(gWave	data and the	man			本地服务	
	Realtek Audio Universal	Realtek Audio Universal Service	ant way with ( c.) -	in an			本地系统	
	Remote Access Auto Con	无论什么时候,当某个程序引用一个进					本地系统	
	Remote Access Connecti	管理从这台计算机到 Internet 或其他					本地系统	
	Remote Desktop Configu	近程桌面配置服务(RDCS)负表需要 SV	and the second s	Trans and a state			本地系统	
	Remote Desktop Services	5 允许用户以交互方式连接到远程计算机 。 允许为 RDP 连接重定向打印机/驱动机	1859-012:	DELIBIT			网络服务	
	Remote Desktop Service		90000	備計四	97 (B/D)	00000	本地系统	
	Remote Packet Capture	Allows to capture traffic on this me	analytics)	(Pan(I))	mary 1	STATUTE.	本地系统	
	Remote Procedure Call (	RPCSS 服务是 COM 和 DCOM 服务	前从世外思想服务时	你可能学校的	用的应动参数。	网络服务		
	Remote Procedure Call (	在 Windows 2003 和 Windows 的項					网络服务	
	C Remote Registry	使這程用户關係改出计算机上的注册是					本地服务	
	Routing and Remote Acc	在局域网以及广域网环境中为企业提供	启动)参数(M);				本地系统	
	SRPC Endpoint Mapper	解析 RPC 接口标识符以传输就师。如					网络服务	
	Sangfor VPN Security Pr	Sangfor VPN Security Protect Servi					本納系统	
	SangforSP				14.01	and an and a second second	本的系统	
	S sDlpSvc	sDipSyc器等			aert, ak	(urutity)	本的系统	
	SecoDaemon		Ĩ	F在 自动			本的系统	
	Secondary Logon	在不同使權下自用自动过程。如果出現)	5.86像止,这种做… 了	F在 自动			本的系统	
	SecoVNC	and the second s	1	FAT_ ESD			本地影響	
	Secure Socket Tunneling	操作使用 VPN 法接到远程计算机的中心	● 標序目前の() 「	Eff. Esh			本地服务	
	Security Accounts Mapag	自动此服务编向其他服务为出信号·安全	新白管理器(SAM_ I	FAT_ FIN			本地系统	
	Security Center	Monitors system security settings a	d configurations.	F7F_ B3h(8)	Ret		本地服务	
	Sensor Data Senire	以各种传感器传祥教育	a companyous 1	王:()()	1925 (BRM)		大地至终	
	Sensor Monitoring Sensice	送现各种传感器。四公开数据和16应至6	\$10用户分本。如	重动体	学問目的		本地服务	
	Censor Senice	一项用于管理各种传感器的功能的传感	第二日 日本	王动体	1446 (R. 20)		大地王统	
	and a second sec	A DECEMBER OF THE PARTY OF THE PARTY.					Sector pro-	

#### 4.2.2 Upgrade HCP 2. X hot standby to HCP 2.4 hot standby

Since the data synchronization form of hot standby has changed from the previous full database hot standby to the more convenient way of establishing database hot standby through the watchdog since HCP version 2.3, there are two data synchronization sets in this case:

- After the upgrade, the parameters of Rose's synchronized dataset are not modified, and the synchronized PGData is still used. In this case, Rose can be imported directly after upgrading to version 2.4.
- Use the method of establishing database hot standby relationship, click Modify after upgrading, modify the dataset to be synchronized, and <u>Chapter above</u>The consistency mentioned in, and then brought into Rose

[Note]: After upgrading to HCP version 2.4, you need to re register PG services. Please contact the delivery colleagues of the R&D Center for specific steps.

# 4.3 Upgrading a low version stand-alone to HCP 2.4 hot standby4.3.1 Upgrade HCP 1. X to HCP 2.4

Upgrade the lower version to HCP 2.4 first. As mentioned above, if the database version is 1. X, the PG version needs to be upgraded first. In this scenario, please contact the delivery colleagues of the corresponding R&D center. After the database upgrade is completed, refer to Section 4.1, complete the hot standby switch when the single machine is running.

#### 4.3.2 Upgrade HCP 2. X to HCP 2.4

In this scenario, the only difference from HCP 2.4 single machine deployment of hot standby is that an upgrade operation has been added to ensure the smooth completion of the upgrade process. <u>Section 4.1</u>, complete the hot standby switch when the single machine is running.

[Note]: After upgrading to HCP version 2.4, you need to re-register PG services.

Please contact the delivery colleagues of the R&D Center for specific steps.

# 5 HCP 2.4 External Streaming Media Deployment Rose Hot Standby

## 5.1 Preparation before installation

External streaming media requires two additional servers. The server hardware, system and network configuration should be the same as the above sections. Two additional Rose licenses are required to be used on the active and standby machines of the streaming media server.

### 5.2 Installation and deployment of HCP external streaming media

Run the HCP 2.4 installation package with administrator privileges on the active and standby machines of the streaming media server. Select the streaming media service during installation, and select the normal installation mode.(Streaming media does not need to be installed in hot standby mode)

系统管理服务	🗌 客户端	
🗹 流媒体服务	数据库服	服务管理器
安装模式		
🧿 普通	· 镜像热备	● 共享存储热备
选择数据库安装位置:所需	空间3GB 可用空间12GB	
C:\Program Files (x86)\Hik	Central\VSM Servers\PGData	
选择数据库排序规则:选择	语言	
简体中文		
选择程序安装位置:所需空	间3GB 可用空间154GB	
SUDIA DI		

After installation, open the watchdog interface, and the status diagram shall be shown as follows



	⊥ 下载日志 🗠 性能监测			
服务管理器	服务名称	端口号	状态	操作
HikCentral Professional	HikCentral Professional Management Service	80;443	⊘ 已启动	$\Box \Theta$
	Streaming Server	554;16003;16000;16001;6678	⊘ 已启动	$\Box \Theta$
⊖ 全部停止	BeeAgent	9208;8208	⊘ 已启动	
● 全部重启				
③ 安全认证 🚺				
运行时间:				
0 天 00:08:40				
				✓ 开机 户动

> Open cmd with administrator permission, cd to X:\HikCentral\VSM Servers\

BeeAgent directory, run install.bat, as shown in the following figure



Copy X: HikCentral VSM Servers BeeAgent META\_INFO\BeeAgent\runtim e\_script\Services\_StateService.svc.config file in Pro path to X: HikCentral VSM Servers BeeAgent META\_INFO\BeeAgent\runtime\_Script Services dire ctory



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		组织	85	健 打开	选择		筋贴板	组织		新建	打开	选择				
本地	磁盘 (D:) → H	ikCentral > VSM Servers >	BeeAgent →	META_INFO > BeeAger	t > runtime_script > !	Se ← → * ↑	<mark>。</mark> 《 本	は抱磁曲 (D:) > HikCentral > VSM	Servers > Be	eAgent → META_INFC	) > BeeAgent	> runtime_script >	Services	~	0 )	)在 Services 4
^	名称	^	修改日期	02	大小	Desktop	* ^	名称 ^		取日期	英型	大小				
	artemis.s	vc.conng	2023/2/24 1	CONFIG 201	- 2 NB	🕹 下戦	1	Beed gest sur config	,	023/2/24 16:30	CONFIG THE	2 KB				
	📓 ArtemisPe	ortal.svc.config	2023/2/24 1	6:30 CONFIG 文件	‡ 1 KB	◎ 文档	1	NewExternalStreamServer	w confin 3	022/2/10 0.51	CONFIG TH	2 1/2				
	📓 ArtemisW	eb.svc.config	2023/2/24 1	6:30 CONFIG 文件	‡ 1 KB	同時		Noise out config	reaconing 2	023/3/10 9:51	CONFIG THE	2 KD				
	📔 BeeAgent	t.svc.config	2023/2/24 1	6:30 CONFIG 文件	⊧ 2.KB			State Service and seaf-		022/2/24 16:20	CONFIG THE	1 1/2				
	Common	Server.svc.config	2023/2/24 1	6:30 CONFIG 文件	‡ 1 KB	pstor		atateservice.svc.comig		023/2/24 10:30	CONTIO 23+	1 ND				
	Z Extended	DeviceAccessServer.svc.conf	2023/2/24 1	6:30 CONFIG 文件	‡ 1 KB	RCC		/								
	Minio.svc	.config	2023/2/24 1	6:30 CONFIG 文件	⊧ 1 KB	新建文件	ŧ									
	VewExter	nalStreamServer.svc.config	2023/2/24 1	6:30 CONFIG 文件	‡ 2 KB	新建文件	ε .									
	VewInter	nalStreamServer.svc.config	2023/2/24 1	6:30 CONFIG 文件	± 3 KB											
	Nginx.svo	.config	2023/2/24 1	6:30 CONFIG 文件	= 4 KB	<ul> <li>OneDrive</li> </ul>	Persi		Conv the	StateService	sve confi	a here				
	Vinx1.s	c.config	2023/2/24 1	6:30 CONFIG 文件	5 KB	此电脑			copy the	oraccoci (ice.	570. Com 1	8 nore.				
	Viginx2.sv	c.config	2023/2/24 1	6:30 CONFIG 文件	5 KB	3D 252										
	Nginx3.sv	c.config	2023/2/24 1	6:30 CONFIG 文件	5 KB	Desister										
	Vainx4.s	rc.config	2023/2/24 1	6:30 CONFIG 文件	5 KB	Desktop	1									
	Nainx5.sa	r. config	2023/2/24 1	6:30 CONFIG 文化	5 KB	12 视频										
	OpenDat	aServer.svc.config	2023/2/24 1	6:30 CONFIG 文法	1 KB	図片										
	PostareS	OL svc.config	2023/2/24 1	6/30 CONFIG \$28	1 KB	📄 文档										
	Redis sur	config	2023/2/24 1	6/30 CONFIG 24	1 KB	➡ 不能										
	SacMdb	we confin	2023/2/24 1	6-30 CONEIG 12/2	1 KB	<u>**</u> *										
	CamSenu	r svc confin	2023/2/24 1	6:30 CONEIG 12/1	2 KB	1 1070	~									
	Ctate Cen	ice pus confin	2022/2/24 1	620 CONFIG \$1	1 /2	4-7562M	(C:)									
	SVS out of	nefin	2023/2/24 1	6-20 CONFIG 32H		本地磁盘	(D:)									
	ThirdDian	informer our confin	2022/2/24 1	6-20 CONFIG 254	- 1/2	文件资料;	7) 事:									
~	Tomcat85	iac.svc.config	2023/2/24 1	6:30 CONFIG 文相	2 KB	💣 网络	~									

> Restart the BeeAgent service

I.

进程 性能 应用历史记录 启	动用户	详细信息	服务				
名称	PID	描述		状态	组		
🔍 AarSvc		Agent Acti	vation Runtime	已停止	AarSvcGroup		
AarSvc d964ecbb	27248	Agent Acti	vation Runtime d964ec	正在运行	AarSvcGroup		
AJRouter		AllJoyn Ro	uter Service	已停止	LocalService		
ALG		Applicatio	n Layer Gateway Service	已停止			
AppIDSvc		Applicatio	n Identity	已停止	LocalService		
🕼 Appinfo	35036	Applicatio	n Information	正在运行	netsvcs		
🕵 AppMgmt	2008	Applicatio	n Management	正在运行	netsvcs		
🔍 AppReadiness		App Read	iness	已停止	AppReadiness		
AppVClient		Microsoft	App-V Client	已停止			
AppXSvc	16180	AppX Dep	loyment Service (AppX	正在运行	wsappx		
🗟 ArcGIS License Manager	17136	ArcGIS Lic	ense Manager	正在运行			
🔍 AssignedAccessManager		AssignedA	AccessManager 服务	已停止	AssignedAcc		
🔍 AudioEndpointBuilder	4120	Windows	Audio Endpoint Builder	正在运行	LocalSystem		
🔍 Audiosrv	4684	Windows	Audio	正在运行	LocalService		
autotimesvc 🌐		手机网络时	间	已停止	autoTimeSvc		
🔍 AxInstSV		ActiveX In	staller (AxInstSV)	已停止	AxInstSVGro		
🔍 AzureAttestService	5408	AzureAttes	stService	正在运行	AzureAttestS		
BcastDVRUserService		GameDVR	和广播用户服务	已停止	BcastDVRUs		
BcastDVRUserService_d9 GameDVR			和广播用户服务_d964e	已停止	BcastDVRUs		
BDESVC		BitLocker	Drive Encryption Service	已停止	netsvcs		
BeeAgent	+0070 ⇒(S)	D 4 .	Gervice	正在运行			
品 BFE /1×	-(T)		ng Engine	正在运行	LocalService		
BITS	L(リ E自动(R)		d Intelligent Transfer	已停止	netsvcs		
BluetoothUserSer			<b>寺服务</b>	已停止	BthAppGroup		
🤮 BluetoothUserSer 打チ	f服务(V)		导服务_d964ecbb	已停止	BthAppGroup		

> Manually start the StateService service



~ ~	-	
112	171	173
U.J.	120	120

进程 性能 应用历史记录	启动 用户	详细信息 服务			
				1	
名称	PID	描述		状态	组
🔍 SQLBrowser		SQL Server Brow	wser	已停止	
SQLSERVERAGENT		SQL Server 代理	(MSSQLSERVER)	已停止	
SQLTELEMETRY	7328	SQL Server CEIF	P服务 (MSSQLSE	正在运行	
SQLWriter	6168	SQL Server VSS	Writer	正在运行	
SSDPSRV	43484	SSDP Discovery		正在运行	LocalService
🔍 ssh-agent		OpenSSH Authe	ntication Agent	已停止	
🔍 SstpSvc	6440	Secure Socket T	unneling Protoco	正在运行	LocalService
StateRepository	2652	State Repositor	y Service	正在运行	appmodel
StateService	30976	StateService		正在运行	
🔍 stisvc	开始(9	5)	Acquisition (WIA)	已停止	imgsvc
🔍 StorSvc	停止(1	)		正在运行	LocalSystem
🔍 STREAM	重新启	动(R)	1 Service	正在运行	
🔍 SunloginService	打开服	务(V)		已停止	
🔍 svsvc	在线搜	宝(O)		已停止	LocalSystem
🔍 swprv	转到诗	細信息(D)	re Shadow Cop	已停止	swprv
🔍 SysMain		aysiviani		正在运行	LocalSystem
🔍 SystemEventsBroker	1000	System Events E	Broker	正在运行	DcomLaunch
🔍 TabletInputService	4776	Touch Keyboard	d and Handwritin	正在运行	LocalSystem
🕼 TapiSrv		Telephony		已停止	NetworkServ
🔍 TeamViewer	6816	TeamViewer		正在运行	
🔍 TermService	1520	Remote Deskto	p Services	正在运行	NetworkServ
🔍 Themes	3708	Themes		正在运行	netsvcs
🔍 TieringEngineService		Storage Tiers N	lanagement	已停止	
🔍 TimeBrokerSvc	1912	Time Broker		正在运行	LocalService
TMBMServer		Trend Micro Un	authorized Chan	已停止	

Open the system service manager, and change the startup type of the BeeS tream Media Service and BeeAgent service to manual

操作(A)	查看(V) 報助(H)						
<b>a</b>	Q 🕞 🛛 📰 🕨 🖩 🕸 🕨						
本炮)	③ 服务(本地)						
	BeeAgent Service	名称	描述		状态 启动类型		登录为
		Agent Activation Runtime	Runtime for activating conversation	nal agent applicati	正在 手动		本地系统
	停止此服务	AllJoyn Router Service	路由本地 AllJoyn 客户講的 AllJoyn 消	嗯,如果停止此服	手动(触发器启动)		本地服务
	<u>里用司</u> 比服务	App Readiness	当用户初次登录到这台电脑和添加新点	用时,使应用进入	手动		本地系统
		Application Identity	确定并验证应用程序的标识。萧用此服	务将阻止强制执行。	- 手动(触发器启动)		本地服务
	描述:	Application Information	使用辅助管理权限便于交互式应用程序	663年4月1日1日	正左 手动体的暴力动		本地系统
	distributed deployment and	Application Layer Gatewa	为 Internet 连接共享提供第三方协议	BeeAgent Service	的庫性(本地计算机)	×	本地服务
	upgrade service.	Application Management	为通过组策略部署的软件处理安装、景	常招 西平	他每 法定法承认		本地系统
		AppX Deployment Servic	为部署 Microsoft Store 应用程序提供	ALS.	FOR BATESOR		本地系统
		ArcGIS License Manager		服务名称	BeeAgent		本地系统
		AssignedAccessManager	AssignedAccessManager 服务支持				本地系统
		QAVCTP 服务	这是音频视频控制传输协议服务	显示名称	BeeAgent Service		本地服务
		AzureAttestService		1010	distributed deployment and upgrade se	ervice.	本地系统
		Background Intelligent T	使用空闲网络带宽在后台传送文件,刘	10025			本地系统
		Background Tasks Infras	控制哪些信旨任务可以任美统上运行的			~	本地系统
		Base Filtering Engine	基本调选引擎(BFE)是一种管理初次相)	可执行文件的路	径:		本,因服务 + 14 不分
		BeeAgent Service	distributed deployment and upgra	*D:\HikCentral	VSM Servers\BeeAgent\BeeAgent.exe* *-se	rvice*	本,四系统 本地系统
		Deestream media service     Della selvas Deiva Essenatio	PDESVC 32th Pal askes 32 shiftents				
		Block Level Backup Epoi	Windows 餐份使用 WRENGINE 認識	/启动类型(E):	目初	~	本地至终
		BranchCache	此服务保存来自本地子网上对集方的网		日初(站达旧初) 自动		网络服务
		CaptureService d964ecbb	为還用 Windows.Graphics.Capture	1	手动		本地系统
		Certificate Propagation	将用户证书和根证书从智能卡复制到当	87.47.43.+F	熱用		本地系统
		CGEDataService	CGEDataService服务	服用 大心:	LEASEA		本地系统
		Q Client License Service (Cli	提供对 Microsoft Store 的基础结构3	启动(S)	停止(1) 暫停(2)	恢复(R)	本地系统
		CNG Key Isolation	CNG 密钥隔离服务宿主在 LSA 进程中				本地系统
		COM+ Event System	支持系统事件通知服务 (SENS),此服	当从此处启动服	务时,你可指定所适用的启动参数。		本地服务
		COM+ System Application	管理基于组件对象模型 (COM+) 的组				本地系统
		CommonHKFPModuleSvr		000400000			本地系统
		Q Connected User Experien	已连接的用户体验和湿爽服务所启用的	1004238-300((41)1			本地系统
		ConsentUX_d964ecbb	允许 ConnectUX 和电脑设置连接 WI				本地系统
		Q Contact Data_d964ecbb	为联系人数据编制索引以进行快速联系				本地系统
		Q. CoreMessaging	Manages communication between		确定 取消	应用(A)	本地級勞
		Credential Manager	バー、世内をすれる主体のではない。 (A #2:+000000000		IC IN		今 把 亲统 本 地 系统
		Credentialchrolimentivian	光确注册目理解 担州二种管理系统。油具新提供系统	ETHEL Wordson	(手切) 正在 自动		4-10.04M
		Data Sharing Services	提供应用程度之间的数据(ATB	DJ Wer, Windows.	- 山(1 日本) 正在 Fith/始分路向3h		*1410055 本他系统
		COM Server Process La	DCOMLAUNCH 服然可启动 COM 和	DCOM 18558	正在 自动		本地系统
		Delivery Optimization	执行内容传递优化任务		正在		网络服务
		Device Association Service	在系统与有能成无线设备之间启用匹配		正在 手助(触发器启动)		本地系统
		Device Install Service	便计算机在极少或没有用户输入的情况	 下能识别并适应硬	自动(触发器/启动)		本地系统
		Chevice Setup Manager	支持检测、下载和安装与设备相关的新	件。如果此服务被	自动(触发器/启动)		本地系统
		DeviceAssociationBroker	Enables apps to pair devices		手助		本地系统

**5.3 Rose Installation and Deployment** 



The installation of Rose is completely consistent with the HCP deployment hot standby in the above, please refer to Section 2.5.

# 5.3.1 Rose deployment

Specify the IP addresses of the active and standby streaming media servers respectively, and enter the account password. The default is admin

Configuration Wizard	
	Active Server
Slandby Server Link Configuration Resource Group Name Local Bind Data Local Application Policy File Resource Configuration Detail	Active server is a server whose application service is in active state. At first bringin, you can select an existing server or a new server as Active server. If it is a new server, the configuration wizard will add it to control center.
	Prev Next Finish Cancel
R Configuration Wizard	×
Configuration Wizard     Active Server	Standby Server
Standby Server	Standby server is a server which application service is in standby state. At first bringin, you can select an existing server or a new server as standby server. If it is a new server, the configure wizard will add
<ul> <li>Clink Configuration</li> <li>Resource Group Name</li> <li>Local Bind Data</li> <li>Local Application Policy</li> <li>IP Resource</li> <li>NT Service Resource</li> <li>Configuration Detail</li> </ul>	It to control center automatically. Select a server Server: PC-PUBGJCP29 Login X Server(E): PC-PUBGJCP29 Login Type: Built-in Account V User Name: admin Password:

> Manually activate the license and import the soft license file



🕂 Configuration Wizard		×
Configuration Wizard	License	
Standby Server	NB-HZ20219289	PC-PUBGJCP29
© License		A
O Link Configuration	The product node is not authorized	The product node is not authorized
Resource Group Name		
O Local Bind Data	ID: (Host)	ID: (Host)
Local Application Policy		
O IP Resource	EXP.:	EXP.:
ONI Service Resource	License (S)	License (S)
Conliguration Detail	Election (0)	
		Prev Next Finish Cancel

Link configuration, consistent with the above

🕂 Configuration Wizard				×
© Configuration Wizard Link	Configuration			
Standby S Net Config			×	
© License © Link Cont © Resource © Local Bin © Local Bin © Local Apt ND UZ00040000	IP addr hbt port	link port	1	<b>I(A)</b> fy(M)
OIP Resou		7320	Delete	te(D)
© Configura				
Add Server				
HBT Check interval(s)	2 Max miss package count 2			
Data(K) Check interval(s)	2 Max miss package count 2			
		ОК	Cancel	
		Prev Ne	ext Finish	Cancel

Custom resource group name



02	120	122
03	/20	123

Configuration Wizard Active Server Shandby Server Link Configuration Resource Group Name Local Application Policy P Resource Configuration Detail	Configuration Wizard	_					2
Standby Server         Link Configuration         Resource Group Name         Local Application Policy         IP Resource         Configuration Detail         Image: Standby Server         Configuration Detail         Image: Standby Server         Simple Wizard	Configuration Wizard Active Server	Resource Grou	p Name				
Link Configuration Resource Group Name Local Bind Data Local Application Policy IP Resource Configuration Detail	Standby Server						
Resource Group Name   Local Bind Data   Local Application Policy   IP Resource   NT Service Resource   Configuration Detail	Link Configuration	Please specify the name					
Local Application Policy IP Resource Configuration Detail	Resource Group Name						
Local Application Policy IP Resource NT Service Resource Configuration Detail       Resource Group Name: TEST_JJ         ☑ Simple Wizard	Local Bind Data						
IP Resource NT Service Resource Configuration Detail Simple Wizard Prov. Nat. Date. Concel	Local Application Policy	Resource Group Name:	TEST_JJ				
NT Service Resource Configuration Detail	IP Resource	Simple Wizard					
Prov. Next. Cancel							
Prov. Next. Einist. Concel							
Prov. Next Circlet. Concel							
Prov. Novt Cinich Concel							
Prov. Novt Cinich Concel							
Prov Novt Einich Concel							
Dray Novt Cinish Concel							
				Prov	Next	Finish	Cancel

> To set the data synchronization set, just select Stream Mdeia Server

🕂 Configuration Wizard			×
Configuration Wizard	Local Bind Data		
O Standby Server	Set Bind Data whose application service is controlled		
O Link Cont 🔣 Select Data Rule		×	
@Resource File		Attribute	
O Local Bin	es		
● Local App 由 □ ■ 帧分析 ]	.具		
@IP Resou 🖶 🗆 🔤 ip Speal	er网络搜索工具		
ONT Servic			
Configura	Buf		
□ □ □ hiklink接	收文件		
	al -		
	Servers		1
t∎⊻ Strea	m Media Server Recurse - NotExcluding LargetLock		dify
	ilation log		immer
	11 2 5 1 0		impor
	5.51.0		
	g		
	lemo		
	ite		
		~	
Wildcard Exclusion	n Rules If more than one, separate them by ',', eg: *log\;lic*	۲;*.tmp	
		OK Cancel	
	🗹 Auto Snapshot		
	Pr	rev Next Finish	Cancel

 $\succ$  Set the local application policy, and choose to take over when the data is



#### inconsistent

<ul> <li>Standby Server</li> <li>Link Configuration</li> <li>Resource Group Name</li> <li>Local Application Policy</li> <li>IP Resource</li> <li>Orake over when data logic is consistent</li> <li>Take over when data logic is consistent</li> <li>Take over by data difference</li> <li>When data difference info update time 30 s, standby server won't take over applications</li> <li>aunch reverse data backup connection</li> <li>Take over unconditionally and launch reverse data backup connection</li> </ul>	Configuration Wizard	Local Application Policy
It Service Resource         Configuration Detail         When data difference of active server         1       KB,standby server won't take over applications         Launch reverse data backup connection when data logic is consistent         Take over unconditionally and launch reverse data backup connection	Standby Server Unix Configuration Resource Group Name Local Bind Data Local Application Policy IP Resource	Shutdown takeover  When HBT timeout, after wait 45 S shut down take over operation.  Take over when data is completely consistent and launch reverse data backup connection  Take over when data logic is consistent
	Configuration Detail	When data difference of active server 1 KB,standby server won't take over applicatio When data difference info update time 30 s,standby server won't take over applications Launch reverse data backup connection when data logic is consistent Take over unconditionally and launch reverse data backup connection

> Set the NT service. Note that the priority of BeeAgent service is 2, and the priority

of StateService is 1

₽ 配置向导					×
<ul> <li>◎ 配置向导</li> <li>◎ 活动主机</li> <li>◎ 备用主机</li> </ul>	NT服务资源 <sup>配置NT服务资源。</sup>				
③配置链路	显示名称	服务名称	启动超时值(s)	停止超时值(s)	优先级
② 资源组名称	StateService	StateService	240	240	1
②本地绑定数据	BeeAgent Service	BeeAgent	240	240	2
◎ 本地应用策略					
の NTIII A Y NTIII A Y NTIII A Y N Y					
②配置详细信息					
	并发(P) 上移(U)	下移(D)	添加(A)	移除(R) 批	<b>聖</b> 导入(L)
		上一步 (P)	下一步 (N)	完成 (F)	取消 (C)



Click finish to complete hot standby

? 配置向导	×
<ul> <li>◎ 配置向导</li> <li>◎ 活动主机</li> </ul>	配置详细信息
<ul> <li>备用主机</li> <li>配置链路</li> <li>资源组名称</li> <li>本地逆用策略</li> <li>IP资源</li> <li>NT服务资源</li> <li>配置详细信息</li> </ul>	详细配置信息如下: 
	<ul> <li> <sup>1</sup> (本) (10,100,000)         <sup>1</sup> (10,100,000,000,000,000,000,000,000,000,</li></ul>
	占土今成五色分成
	上一步 (P)

After configuration, Rose interface is shown as follows

					Distantion of the second se
E DEFINITION OF CONTROL OF CO	á	Group: TEST Adavig: 128.98.19 Aground Host:NE-H220219299	89445 085 Let 00	Group: TEST	Portacionaria     Portaci
.023-03-10 14:58:44   Receive the s 2023-03-10 14:58:43   The verification	signal of finishing synchronization in job (TEST ion of the connection TEST is completed, time c	). [PC-PUBGJCP29] ised:20s. [NB-HZ20219289]			
123-03-10 14:58:23   Bring in the ju	job (TEST) successfully. [NB-HZ20219289]				
23-03-10 14:58:23   Start resourc	ce <test> ok.cmd/0ra data/C [NB-HZ202193</test>	89]			
23-03-10 14:58:23   Begin to exec	cute verification of the connection(TEST), verify	mode : Always BCS [NB-HZ20219289]			
23-03-10 14:58:23   HA Start conr	inection or connection group (TEST) success. If	ag.onn:1(normalStart):1(normalVertly):3(srcOwner)	[NB-HZ20219289]		
23-03-10 14 58-23   SHRTI Briste	as starting resource (SAIIResource) of the resource	ros moun (TEST) [NB-H720219289]			
J3-10 14:58:23   [HBT] finishe	es starting resource (\$AllResource) of the resource	arce group (TEST). [NB-HZ20219289]	Tue areas and 1		
-03-10 14:58:23   Bring in the ju -03-10 14:58:23   Start resourc -03-10 14:58:23   Begin to exec -03-10 14:58:23   HA Start conr J-03-10 14:58:23   JHBT] finishe	Job (TEST) successfully. [NB-HZ20219289] cs <test> ok.cmd tha data:C [NB-HZ202192 coute verification of the connection(TEST), verify inection or connection group (TEST) success. ft es starting resource (SAIIResource) of the resource</test>	89] mode: Always BCS [NB+K220219299] ag.com: t(normalStart):t(normalVerts):3(srcOwner) ince group (TEST). [NB-H220219289]	[NB-HZ20218289]		

# 5.4 Configure hot standby streaming media server on HCP

Open HCP 2.4, click System Configuration, Security, Service Component Certificate, and fill the generated key into the watchdog service of the active and



standby streaming media servers for verification.

ı	ikCentral Professional 🏠	Video	Access Control Parking Lot	Visitor Intelligent Analys	Attandanca On Roard Monitor	ina F	vent and Alarn
Syst	em	Service 0	Component Certificate		Operation completed.	-	
		^					
				<ol> <li>Select the correct certification.</li> </ol>	te according to the server type for identity		
			<ol> <li>Certificate between Services in</li> </ol>			Ø	
			System	Generate Again			
				ZK0n4NI3MXVd			
		~	-				]
		~	Certificate between System and Recording Server	Export			
		~		Digest Algorithm Name: sha256			
Ð	Security	^		Secret Key Component:			
				9728284E217441FA			
	Service Component Certificate			Secret Key Salt Value:			
				9728284E217441FA			
		~		Security Level:			
		~		2			
		▲ 服务器未进行	于安全认证,请告进行安全认证。	否则无法正常使用。			×
	服备管理哭	⊥ 下载日志	♀ 性能监测				
	HikCentral Professional	服务名称	请输入认证信息	×	状态	操作	
		HikCentral Prof	e		⊘ 已启动		Θ
	▲ 全部值止	Streaming Serv	e	ŝ	🥝 已启动		Θ
	- Thur	BeeAgent			❷ 已启动		
	▶ 全部重启			<b>前定</b> 取消			
	③ 安全认证 🕕						
	运行时间:						
	0天 01:11:22						
						<b>~</b>	开机 自动

Open HCP 2.4, select Device, Streaming Server, and ADD, where the IP of the streaming media server should be filled in with the virtual IP generated by Rose



•	HikCentral Professional 🏠 🏭	Video Access Control	Parking Lot	Visitor	Intelligent Analysis	Attendance	On-Board Monitoring	Event and Alarm	Person	Account
De	vice \Xi	(-) Test Streaming Serv	ver							
I		<u> </u>								
		ſ	*Name 1	Test_Streaming	g Server					
		L								
		Network	k Location	LAN IP Addr WAN IP Add WAN IP Add	ress dress					
			*Address 1	10.8.96.198						
	UVSS									
	Security Control Device	*Real Time Strea	ming Port	554						
	Fire Protection Device	*Net	twork Port	6678						
	Dock Station	*Web Client Strea	ming Port	559						
	Digital Signage Terminal									
	IP Speaker	* Management	Port (SSL) 8	8208						
	Security Inspection Device	*Web Client Streaming	Port (SSL)	443						
	Network Transmission Device	*RTMP Strea	ming Port 1	1935						
	Recording Server									
	Streaming Server	*HLS Strea	ming Port 8	83						
	DeepinMind Server	Enable W/	AN Access							
	Area 🔶		Hot Spare							
Z	Firmware Upgrade									

#### $\succ$ As shown in the figure after adding

🤨 HikCentral Professional 🏦 🔡	Video Access Control Parking	Lot Visitor Intelligent Analysis	Attendance On-Board Monitoring	Event and Alarm Person Account an	d Security Device 🗘	··· BD (	Q Ø ≡ ad
Device 📃	+ Add 🗇 Delete					Search	
Chroning Derice	Name   Address	Total Streams ‡ Outgoin	ng Stream ‡ Incoming Stream	Network Status	Hot Spare Status ≑	CPU Status ‡	RAM Usage 🗧
Query Terminal	Test_Stream 10.8.96.198	0 0	0	Online	Disabled	18%	63%
Entrance/Exit Control Device							
Guidance Terminal							

[Note]: After hot standby is configured, the performance of streaming media service will remain unchanged, which is still the scenario marked in the official website spec. Please refer to HikCentral Professional System Requirements&Performance



#### 2.3 Streaming Server

	Configurations	
Feature	Low-End	High-End
CPU	Intel <sup>®</sup> Core™ i5-4590 @ 3.30 GHz	Intel Xeon <sup>*</sup> E-2124 @ 3.30 GHz
RAM	8 GB	16 GB

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HikCentral Professional System Requirements & Performance

NIC	GbE Network Interface Card	GbE Network Interface Card
HDD Type	SATA-II 7200 RPM Enterprise Class Hard Drives	SATA-II 7200 RPM Enterprise Class Hard Drives
HDD Capacity	10 GB for Streaming Server Log Files	10 GB for Streaming Server Log Files
	Maximum Performance	
Input and Output	200 streams × 2 Mbps input and 200 streams × 2 Mbps output	300 streams × 2 Mbps input and 300 streams × 2 Mbps output

# **6** Operation after Rose deployment

# 6.1 Application Service Resources (JOB) - Status Display



# 6.2 Application service resources (JOB) - brought in

Carry out the import operation: mount the virtual IP  $\rightarrow$  start the NT service  $\rightarrow$  start

the data synchronization connection





#### 6.3 Application service resources (JOB) - transfer/takeover

To perform a transfer/takeover operation:

Host: Stop NT service, uninstall virtual IP, and stop data synchronization connection Standby machine: attach the virtual IP, start the NT service, and start the data synchronization connection

[Note]: The roles of the host and the standby machine are opposite. The machine running the application is the host



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RoseReplicat	orPlus for oversea 控制中心 - WIN-70-67	-	
系统(E) 主机(S) 数据(D) 应用服务(A) 视图(V) 工具(T) 帮助(H)			
A      A  A     A			
① (1) 主机列表     ②     ③     ④     ③     ④     ④     ④     ④     ③     ③     ③     ③     ④     ③     ④     ③		属性	值
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UserDefir		- 🥷 IP-UserDefine	10.12.70.6
E- WIN-70-68		- MT-postgresql-x.	. postgresql
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😚 2021-09-14 10:16:17   启动资源 <userdefine>完成。cmd:0xd data:E</userdefine>	3 [WIN-70-68]		=
① 2021-09-14 10:16:17   [HBT]启动资源组(UserDefine)中的资源(\$AIIR)	esource)完成。 [WIN-70-68]		
① 2021-09-14 10:16:17   [HBT]启动资源组(UserDefine)中的资源(NT-pi )	ostgresql-x64-93)成功。 [WIN-70-68]		
①      ①     ①     ①      ①      ①      ①     ①        ①	IN-70-68]		
f) 2021-09-14 10:16:14   进程("C:\Program Files\ReplicatorPlus\bin\pi	ostgresql.bat" "postgresql-x64-9.3")执行完毕。 [WIN-70-68]		
1 2021-09-14 10:16:14   目标连接 (WIN-70-68-UserDefine)启动成功。	[WIN-70-67]		

# 6.4 Application service resource (JOB) - offline

To perform an offline operation:

The virtual IP and service resources remain in the current running state, and Rose will

not continue to monitor the operation of resources.

The data replication connection can be stopped or not.

Execute the bring in operation to restore the hot standby state



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系統 E 主机 S 数据 O 应用服务 (4) 視图 O 工具 O 帮助 H	
□ 😥 主机列表	Ī
🖓 🕅 NR-70-67	IN-70-68
- P-UserDefine 10	0.12.70.69
	ostgresql-:
	serDefine
	uµ ser∏efine
相名: UserDefine 〈〉〉 速度: 0B/S 創会量: 0B (日本) 相名: UserDefine 中国 #2544 (日本)	K
送劫P 10.12.70.69 ● 速度 停… 0	
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□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	op
<	>
10221-09-14 10:27:57   帯出job (UserDefine)成功。 [WIN-70-67]	^
1 2021-09-14 10:27:57   停止资源≺UserDefine>完成。cmd:0x9 dataB [WIN+70-67]	=
😚 2021-09-14 10:27:57   [HBT]停止资源组(UserDefine)中的资源(\$AllResource)完成。 [WIN-70-67]	
😚 2021-09-14 10:27:57   [HBT] 厳憲逆源组(UserDefine)中的逆源(\$lpAbt)成功。 [WIN-70-67]	
⑦ 2021-09-14 10:27:57   [HBT]脱离资源组(UserDefine)中的资源(\$RepConn)成功。 [WIN-70-67]	
😚 2021-09-14 10:27:57   HA停止连接或连接组(UserDefine)成功。flag:cnn:2(ignoreDataStop):0(igtStb) DISCARD_DATA! [WIN-70-67]	~

# 6.5 Configuration check and modification during Rose operation

The following information can be directly observed on the right side of Rose interface

- Virtual IP address
- Bind NT service
- Binding data



Modify configuration:

[Note]: The configuration must be modified when the host or standby machine is



#### brought out

✓ Modify Virtual IP

The active virtual IP address can be detected on the main interface. To modify, right-click and click Properties to modify the virtual IP address.



✓ Modify heartbeat IP

Click Heartbeat Information on the main interface to view the currently used



#### heartbeat IP on the right.



If you need to modify, right click the host name and select Link Configuration to add or delete or modify the existing configuration.

		Propert	y	Val	ue		
		⊟- <mark>Hos</mark>	Link	Config			
			Statu	s Ok			
			🐶 Туре	Soc	ket		
			Priorit	ty O			
			- Interv	al 2			
			Max M	Miss 2			
			PC-H	Z2010 10.	9.99.170:300	0	
			WIN-	HMOV9 10.	9.99.171:300	0	
Application Service VIEW	I GOIS Help			×			
Config	Tools Help			X Eink Config		- a face	
Application Service view Config Ethernet Serval Port	I DOIS HEID	link port		X Eff Link Config Cluster, Local	iuster	·	
Application Service View Config Ethergiel Service Service PC-H220103926 WH-HM0/SPNDOCVR	IP addr 10.9.99.170 10.9.99.171	link port → 7320 → 7320	Dalete Delete	X	iuster PC-4220103928 10.9.93170	WH-HMOVINDOCVR 10.9 99 171	Add(A)
Apprication Service View Config Effected Serial Port Server PC-H220103926 Wei-HellOVIPNDOCVR	P addr 10.9.99.170 10.9.99.171	link pot √ 7320 √ 7320	Delete Delete	X Cluster Local Type Local-sta Local-M	PC-H220103926 10.9 99 170 10.9 99 170 10.9 99 170 3000	W84-HMOV9NDOCVR 10.9.99.171 10.9.99.1713000	Add(A) Modify() Delete((
Config Elegand Senar View Elegand Senar Port PC-H220103228 WN-H460V9NDOCVR	P addr 10.9.99.170 10.9.99.171	link pot √ 7320 √ 7320	Dalata Dalata	X	PC-H220103926 10.4 299.170 10.9 99.170.3000	W82-HMOV9NDOCVR 10/3 99 171 10/3 99 171 3000	Add(A) Modify(A Delete(C
Appication beince inter i config Ethergelenal Port Berer PC-H220103226 WNH-BIOVI9NDOCVR	P addr 10 9 99 170 10 9 99 171	link port ∨ 7320 ∨ 7320	Deiste Deiste	X	Pc-Hc20103926 10.9.99 170 3000	W#4+MOV#ND0CVR 10.9.90171 10.9.99.1713000 OK	Add(A) Modif(M Delete(C Cancel
Approach Service View Coonfg Ehergel Servial Port Server Neu-HanovandocvR	IP addr 10.999.170 10.999.171	link port ∨ 7320 ∨ 7320	Celate Delate	X Cluster Local Local colling Local colling Local colling	2- 2uster PC-H220103926 10.9.99.170 10.9.99.170 10.9.99.170 10.9.99.170 10.9.99.170 10.9.99.170 10.9.99.170 10.9.99.170 10.9.99.170 10.990.170 10.900.170 10.900.170 10.900.170 10.900.170 10.900.1700.1700000000000000000000000000	WH-HMOVINDOCVR 10.9.99.171 10.9.99.171.3000 OK	Add(A) Modif(N Delete(C Cancel
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Approximit bened view et config b Ethergel _ Serial Port Sener Port22010326 WeN-HMOV(RIDOCVR USERNAL Heat Interval(s) 2 Heat _ Ontar(s)	I ODIS HEEP I D a 99 170 10 9 99 171 Max miss package of	link port √ [732] √ [7320 0001t 2	Deliste Deliste	X	Auster PC-H220103926 103.959.170 103.959.170 103.959.170 3000	WH-HMOVIRDOCVR 103.99.173 103.99.173 00.99.171.3000	Add(A) Modfy(M Detete(D Cancel

✓ Modify NT Service



Click specific NT service to delete

- 💼 IP-UserDefine	10.9.99.150 / 255.25.
NT-Postares	8 PostoreSOI
MT-Hiko	Create Resource > K
MT-3rdF	Property
NT-ADS	Delete
- S NT-KPS	Opline
MT-SYS	Olimie
MT-SWI	Offline
- MT-Hiko	Detach
Data	Force Start
Connection	Clear Error Flag
- Link Group	OK
Sneed (h	0

Right click NT and select New to create a new NT service. Select a specific service name and click OK to add an NT service. It is usually unnecessary to add other NT services.

		Property	Value
		C . LlearDafina	DO U700102026
IT Service Resource			>
NT Service Resourc	e Resource Parameter	Additional Script	
Resource			
Name:	NT#1		
NT Service Name	(M):		Seject
Kill service wh	en stop time out		
Stop the deper	ndent NT service when the	e service is stopped	
Depend Resource	0		
P-UserDefine	1		
NT-PostgreS0	X.		
NT-HikCentra	IOpenSDK		
NT-3rdPartyD	eviceAccessGateway		
NT-ADS			
NT-KPS			
□ NT-SYS			
NT-SWMS			
NT-HikCentral	ProfessionalSTREAM		
Restart when	he depend resource is re	starting	
	and depend resource is re	our nul	

✓ Modify Binding Data

Right click the connection and select Modify View. Select data and modify to modify the binding data.

Bind data         Rule Path       Rule Attributes         D:\Program Files (x86)\HI       Include       Recurse         D:\Program Files (x86)\HI       Include       Recurse       ExcludingTargetLock         C:\VSM4.x_Picture\config\       Include       Recurse       ExcludingTargetLock	ity Application Service		
Data       Policy       Scheduled task         Image: Data       Bind data         Image: Display the second			
Bind data   Rule Path Rule Attributes   D:Program Files (x86)Hi Include   Recurse ExcludingTargetLock   D:Yrogram Files (x86)Hi Include   Recurse ExcludingTargetLock   D:Yrogram Files (x86)Hi Include   Recurse ExcludingTargetLock   C:WSM4.x_PictureIconfigi Include   Recurse ExcludingTargetLock	eneral Data Policy Schee	duled task	
Rule Path       Rule Attributes         D:Program Files (x86))Hi       Include       Recurse       ExcludingTargetLock         C:WSM4 x_Picture\config\       Include       Recurse       ExcludingTargetLock	Rind data		
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D:Program Files (x86)\Hi   Include   Recurse   ExcludingTargetLock D:Program Files (x86)\Hi   Include   Recurse   ExcludingTargetLock C:\frood\   Include   Recurse   ExcludingTargetLock C:\frood\   Include   Recurse   ExcludingTargetLock C:\VSM4.x_Picture\config\   Include   Recurse   ExcludingTargetLock	Rule Path	Rule Attributes	
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	C:\VSM4.x_Picture\config\	Include Recurse ExcludingTargetLock	Mo
Verify after Application Service Takeover	Verify after Application S	ervice Takeover	
Verify after Application Service Takeover	Verify after Application S	ervice Takeover	
Verify after Application Service Takeover Use Data Lock in Standby Server	□ Verify after Application S ☑ Use Data Lock in Stand	ervice Takeover by Server	
Verify after Application Service Takeover Use Data Lock in Standby Server Delete orphan files when verifying or mirror	<ul> <li>□ Verify after Application S</li> <li>☑ Use Data Lock in Stand</li> <li>□ Delete orphan files whe</li> </ul>	ervice Takeover by Server n verifying or mirror	

# 6.6 Rose Build in Account Password Modification

When Build in Account is selected but no operating system account is selected,

the default password is admin. If you need to modify it, the operation steps are as follows:

✓ Open the account.exe file under the path X: ReplicatorPlus bin and run it as an administrator.



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← → ~ ↑	此电脑 > 本地磁盘 (C:) > Program	m Files → ReplicatorPlus → bin		
	名称 ^	修改日期	英型	
◇ 📌 快速访问	abtdisk.dll	2019/12/10 10:20	成用程序扩展	93 KB
泉印 .	A account.exe	2020/11/11 15:19	应用程序	79 KB
🔶 下载 👘	AD.exe	2020/11/11 15:14	应用程序	315 KB
🦉 🔛 文档	🖈 📧 ag script.bat	2018/12/21 14:58	Windows 批处理	2 KB
■ 留片	* 🖬 agapi.exe	2020/11/11 15:14	应用程序	81 KB
2022-03	agfile.exe	2020/11/11 15:14	应用程序	98 KB
HCP平台迁移升级	g 🖬 agmssql.exe	2020/11/11 15:14	应用程序	145 KB
Rore	agmysql.exe	2020/11/11 15:14	应用程序	96 KB
\$72#++r/4++	agmysql-x86.exe	2020/11/11 15:23	应用程序	84 KB
新建又件头	agoracle.exe	2020/11/11 15:14	应用程序	95 KB
> 👝 OneDrive - Perso	ona 🖬 agpostgre.exe	2020/11/11 15:14	应用程序	96 KB
	agpostgre-x86.exe	2020/11/11 15:23	应用程序	85 KB
	agproc.exe	2020/11/11 15:14	应用程序	147 KB
> 🧊 3D 対象	agsoapmix.exe	2020/11/11 15:14	应用程序	1.176 KB
> 🚪 视频	agsymbiote.exe	2020/11/11 15:14	应用程序	85 KB
-> 📰 圏片	agtibero.exe	2020/11/11 15:14	应用程序	95 KB
> 🔮 文档	agweb.exe	2020/11/11 15:14	应用程序	93 KB
→ 📕 下戦	dientmg.dll	2020/10/22 20:14	应用程序扩展	144 KB
	CloseWindow.exe	2020/10/12 17:51	应用程序	60 KB
	duminfo.dll	2020/11/11 15:20	应用程序扩展	55 KB
	diffVerify.dll	2020/7/28 16:18	应用程序扩展	222 KB
> 📥 本地磁盘 (C:)	DisableArp.reg	2020/5/26 14:18	注册表项	1 KB
> 👝 本地磁盘 (D:)	dllReadWrite.dll	2020/11/11 14:33	应用程序扩展	123 KB
> 🚍 文件资料共享 (\\	hil 🧕 dnsdll.dll	2019/7/25 16:23	应用程序扩展	813 KB
Nationalia	Dqi-Exchange.dll	2020/11/11 15:23	应用程序扩展	258 KB
• Network	🔤 Dqi-IIS.dll	2020/11/11 15:23	应用程序扩展	268 KB
> DESKTOP-/NSV	O 🔄 Dqi-MSSQL.dll	2020/11/11 15:23	应用程序扩展	157 KB
> Resktop-hgc7	7B Dqi-Oracle.dll	2020/11/11 15:23	应用程序扩展	206 KB
> 💻 NB1-HZ2016980	<sup>06</sup> 🔄 drdll.dll	2020/11/11 15:20	应用程序扩展	93 KB
> 💻 PC-HZ20230053	drvkctrl.exe	2020/11/25 18:23	应用程序	156 KB
> 💻 PC-UNDEFINED	🖬 drvkparam.exe	2020/11/25 18:23	应用程序	183 KB
-	🖬 drvkstat.exe	2020/11/25 18:23	应用程序	185 KB
	🗟 EventCenterDll.dll	2020/11/11 14:34	应用程序扩展	1,377 KB

 $\checkmark$  Select 1 from the main menu in the pop-up command prompt, configure the client

management account, and then press Enter



 $\checkmark$  Continue to select 1, set the admin account, enter the user name as admin, and

press Enter




 $\checkmark$  Enter the new password to be set and confirm. After the prompt of successful

modification appears, the password has been successfully modified



# 6.7 Modification of SYS image storage path and system backup

## file storage path

 $\checkmark$  Take the active and standby machines out of the hot standby



W 114-AU3	ITTIOOTIAN	DESKTOP-VGJ4111
A HikCe		+ HikCentral
	Bring In	
	Bring Out	lines 6
	Detach	(James de
	Force Start	
	Take Over	
	Fail Over	
	Data	
	Resource	
	Modify / Preview	
	Link Config	
	Hbt Status	
	Delete	
	Backup Configuration	

 $\checkmark$  Open the system service on the host, find the BeeAgent service and start it

🛃 计算机管理						- 0	×
文件(F) 操作(A)							
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* 🜆 计算机管理(本地)	服务					操作	
	gent Service 쏟	称 ^	描述 壮	状态 启动类型	賓 ^	服务	•
		Microsoft Edge 更新 服	使你	自动(延迟.	. 4	更多操作	•
	服务	。Microsoft Edge 更新 服	使你	手动(触发.	. 4	BeeAgent Service	
V > 例 本地用户和组	Innussa.	ActiveX Installer (AxInstSV)	为从	手动	4	更多操作	•
自 > Ň 性能	Q	Agent Activation Runtime	Runt I	E在 手动	4	2.000	
· · · · · · · · · · · · · · · · · · ·	Q	AllJoyn Router Service	路由	手动(触发.	4		
└ > Contraction	outed deployment and	App Readiness	当用	手动	4		
☐ 磁盘管理 upgrad	ide service.	Application Identity	确定	手动(触发.	4		
▶ ▶ 服务和应用程序	10	Application Information	使用 I	E在… 手动(触发.	4		
1 服务	iQ.	Application Layer Gatewa	为 In	手动	4		
₩MI 控件	Q	Application Management	为通	手动	4		
> 📓 SQL Server 配置管理器	Q	AppX Deployment Servic	为部 I	E在… 手动(触发.	4		
	Q	AssignedAccessManager	Assi	手动(触发.	4		
	Q	AVCTP 服务	这是 I	E在… 手动(触发.	. 4		
	Q	AzureAttestService	Ī	E在… 自动	4		
	i.c.	Background Intelligent T	使用	手动	4		
	i.c.	Background Tasks Infras	控制 1	E在 自动	4		
	i.c.	Base Filtering Engine	基本 ]	E在 自动	4		
	10 N	BeeAgent Service	distr I	E在 手动	4		
	10	BitLocker Drive Encryptio	BDE	手动(触发.	. 4		
	Q	Block Level Backup Engi	Win	手动	4		
	Q	Bluetooth User Support	The	手动(触发.	. 4		
	9	BranchCache	此服	手动	M		
	10	CaptureService_16d642	为调	手动	4		
	9	Certificate Propagation	将用 I	E在… 手动(触发.	. 4,		
	<				>		
< > 扩展()	(标准)						

 ✓ After all the watchdog services are running normally, open the HCP server, click Storage, store on the SYS server, customize and modify the drive letter to be changed

KVISIO			]	Rose Fa	ilove	er Solution Hik	Central	V2.4	(	)3/2023
HikCentral Professional 🏠	::	Video	Access Control	Parking Lot	: Visit	or Intelligent Analysis	Attendance	On-Board Monitoring	Event and Alarm	Person
stem Normal	_⊑ _^	Storage	on SYS Serve	r		5				
		Loca	al Storage Configu DEnable L	uration .ocal Storage						
		Pict	ure Storage		<ul> <li>The s</li> <li>stored on</li> </ul>	tored pictures include pictur the local server.	res configured l	by users and pictures upload	ded by resources which	are
Network	~ ^		Stor	age Location	Disk (3)					
Storage on SYS Server						13 GB Free of 146 GB		124 GB Free of 17	70 GB	
	^					E:\ 96 GB Free of 159 GB				
Scheduled Keport Email Templ			Set Quot:	a for Pictures						
			*St	orage Quota						ЗB
	^	File	Storage		<ol> <li>File s</li> </ol>	torage: store video and audi	io files configur	ed on the platform.		

 Click Maintenance and Management on the upper right side of the home page to modify the storage path of the backup file to the path of the asynchronous dataset

		Ø Wizard
		License Expiry Date:
		2022-06-07(Trial Period)
		License Details
		( <sup>1</sup> ) Deactivate License
which are		Back Up and Restore System Data
		Export Configuration Data
		↓ Desktop Client(2.2.0)
		() About
GB		
	Remaining/Total Capacity (GB)	Operation
	135/276	Ū

Custom backup schedule



03/2023

Back Up Restore		$\times$
Туре		
Configured Data		
Configured Pictures		
Received Events		
Received Alarms		
Video Analysis Data		
🗌 Maintenance Data <sup>(1)</sup>		
Vehicle Entering/Exiting Records		
Payment Records		
Parking Records		
Third-Party Data		
How Often		
Monthly		~
Which Day		
1		~
When		
0:00		$\sim$
Save to		_
D) Hild Controlly (SM Son (cro) SVS) Realisin		
D:\mkCentral\vSivi Servers\S1S\backup		
Max. Number of Backups *		
3		
Save Save and Back Up Now	Cancel	

# 7 HCP function verification

#### ✓ Rose, pick up the host

In the Rose client, right click the host interface and select Bring in to view the service status of Services. HikCentral's services are brought by Rose and the platform is running normally

At this time, you can use the virtual IP to log in (under Rose hot standby, you will use the virtual IP to log in to the client. The virtual IP is equivalent to the IP of the active and standby machines. You can log in as long as any server on the active



and standby machines is running normally)

Services				-		×
File Action View	Help					
	G 🔒 🛛 📷 🕨 🖬 🖬 🕬					
Services (Local)	Services (Local)					
🥁 Services (Local)	Services (Local) HikCentral Professional 3rd Party Device Access Gateway Stop the service Restart the service Description: Provide HikCentral Professional 3rd Party Device Access Gateway.	Name Name Function Discovery Resource Publication Geolocation Service Georp Policy Client HikCentral Professional 3rd Party Device Access Gateway HikCentral Professional Stream Media Service HomeGroup Distener	Descriptio Publishes This servio The servio Provide H HikCentra Forward a Makes loo Performs	n Status th ce Running ce Running Running al Running tal ne	Startup Tyj Manual Manual (Tr Automatic Manual Manual Manual Manual Manual Manual	ж ^ ig (Т
		A Human Interface Device Service	Activates	an	Manual (Tr	ig
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E-W WIN-70-67				周田 日本 日本 日 日 日 日 日 日	ne	18 WIN-70-F
T C UserDe	fir				orDofino	10 12 70
R	Rosef	ReplicatorPlus for oversea 控制中心 - WIN-70-67			_	
系统(E) 主机(S) 数据	&(D) 应用服务(A) 视图(V) 工具(T) 帮助 ♪ 🎲 🔜 🔜 🕋 🕋 🥮 🥔 (	(H) 2		同社		(B)
G ╬ WN-70-67 ↓ G UserDe G ╬ WN-70-68 ↓ WserDe	fir fir fir 活动IP: 10.12.70.69 应用在此运行 陳	速度: 0B/S 剩余量: 0B 组名: Use 题: 题: 题: 题: 题: 和名:WIN-70-68	rDefine	日         UserDef           日         IP-U;           IP-U;         IP-U;           IP-U; <th>ne erDefine ostgresql-x 提规则集 ) 速度 (字 nk-0 nk-1 徐守节 徐时间 否校验</th> <th>WIN-70-6 10.12.70. postgrese UserDefii OK USERDefii OK OK OK OK OK OK OK OK OK OK OK OK OK</th>	ne erDefine ostgresql-x 提规则集 ) 速度 (字 nk-0 nk-1 徐守节 徐时间 否校验	WIN-70-6 10.12.70. postgrese UserDefii OK USERDefii OK OK OK OK OK OK OK OK OK OK OK OK OK
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<ol> <li>2021-09-14 10:00</li> <li>2021-09-14 10:00</li> </ol>	:57   连接UserDefine的校验完成,使用的 :34   连接UserDefine的删除孤儿文件结约	时间: 258。 [WIN-70-67] 東。 [WIN-70-67]				
<ul> <li>2021-09-14 10:00:</li> <li>2021-09-14 10:00:</li> <li>2021-09-14 10:00:</li> </ul>	:33   连接(UserDefine)开始执行删除孤儿 :32   目标连接 (WIN-70-67-UserDefine), :32   夢 ) iob (UserDefine)感动。 (Wil	L文件,触发原因: ByVerify [WIN-70-67] 启动成功。 [WIN-70-68] +-70-671				
	132   自动资源 <userdefine>字成。cmd</userdefine>					

✓ After the host is shut down (shut down or disconnected), Rose takes the initiative (1 + 1)

to bring up the standby service



At this time, you can verify whether the following functions are normal: (Preview alarm



## playback TV wall)

88	G HikCentral Professional Con	trol Client 📑 Monitoring							
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1									
☆		Map Map							
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88	G HikCentral Professional Con	trol Client 🔤 Monitoring							
=		Monitoring				Live	View Playback		
۲									
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B		↓ Map ✓ III 1234 (1/1)							
		Camera							





## 8 Description of automatic switching scenarios

Rose will automatically switch businesses in the following scenarios:

- Host downtime
- Host service network disconnection
- The NT service of the host fails to start for three consecutive times

[Note]: When the heartbeat connection is interrupted, as long as the service networks of the active and standby machines can ping each other, the switch will not occur. The switching time is about 1min. The switching time is different under different

# **HIKVISIO**N

abnormal conditions. When the host goes down, the standby does not need to wait for the host service to stop, so the time will be slightly less. When the switch is executed, the platform cannot log in, and all business data such as alarms reported by the device will be lost. In the project, the normal operation of the server should be ensured as far as possible, and the server with higher configuration should be used to reduce the switching time.

1. If the heartbeat network cable is disconnected, it will not be switched because it is used to save heartbeat and data synchronization. If the network cable is disconnected, it will not affect service access. Even if it is switched, data synchronization will not be performed, so it will not be switched

2. The re-establishment of the database hot standby needs a certain amount of time. The larger the data volume, the poor disk performance, and the poor network will lengthen the establishment time of the database hot standby (the time when the hot standby status on the watchdog interface turns green)

## 9 Common exception handling

## 9.1 The image is always in the verification state



As shown in the figure, sometimes this exception occurs. The image verification is always in the "writing" state, which means that a process occupies a file to be synchronized, and Rose cannot access the file, so it cannot be verified all the time.

#### Solution:

1) If it is a normal file



12	_		2% CPU 使用本	■ 49% 量大版率				<ul> <li></li></ul>
8R	PID	推进			ND C	114	R CPU	平均 CPU 个
SearchULexe	2192	Search and	6 Cortana application		已暂停		4 0	0.00
SoftupNotify.exe	8640	360款件會	R		正在运行	1	5 3	2.55
sychost.exe (LocalServiceN	1592	Windows	<b>田务主进程</b>		正在运行	,	2 0	0.05
perfmon.exe	1404	资源和性能	二代語		正在运行	,	9 0	0.05
sychost.exe (termsycs)	5900	Windows	最务主进程		正在编行	12	0 0	0.02
Isass.exe	972	Local Secu	rity Authority Process		正在编行		8 0	0.02
WmiPrvSE.exe	13832	WMI Provi	der Host		正在编行		7 0	0.01
系统中断		Readed.	用和中新股务例释		正在信行	\	- 0	0.01 🗸
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ysold eve	3364	File	C1Program Files 0:060/HikCentra/VSM Servers/StorageAccessComponent/undb/data/sac web/nvr hdd.ibd					
ysold.exe	3364	File	C1/Program Files (x86)/HikCentral/VSM Servers/StorageAccessComponent/mdb/data/sac_web/domain.ibd					
vsald.exe	3364	File	C1Program Files (x86)/HikCentral/VSM Servers/StorageAccessComponent/undb/data/sac_web/device.ibd					
ysqld.exe	3364	File	C:\Program Files (x86)\/HkCentral\VSM Servers\StorageAccessComponent(mdb)data(sac_web);c_vs.ibd					
ysqld.exe	3364	File	C:\Program Files (x86)\/HikCentral\VSM Servers\StorageAccessComponent(m8b\data\sac_web\c_volume3.ibd					
ysqld.exe	3364	File	C1/Program Files (x86)/HikCentral/VSM Servers).StorageAccessComponentlymdb\data\sac_webig_volume2.ibd					
ysqid.exe	3364	File	C1/Program Files (x86)//HikCentral/VSM Servers/StorageAccessComponent/mdb\data\sac_web/c_volume1.ibd					
ysqld.exe	3364	File	C:\Program Files (x86)\HikCentral\VSM Servers\StorageAccessComponent\mdb\data\sac_web\c_vm.ibd					~
TV AD LET LA								
- 积累积103%								<b>.</b>

Find the corresponding process in the performance monitor of the standby machine and kill it temporarily. In this way, the file is released and rose can synchronize. After synchronization, ensure that the service just killed is started.

2) If it is an. exe file, restart the Windows event log service of the standby machine.



## 9.2 Server migration

Recommended steps for server relocation:

Start the host "RoseReplicatorPro Control Center", log in to the cluster host, select the application service,

Open the right-click menu and execute the "Bring Out" command

- Shut down the operating systems of the host and standby. Move the physical hardware of the primary and standby machines to the new machine room.
- First, check whether the network and other physical links are fully connected, start the active and standby operating systems, and confirm that the active

The network communication between the standby computers is normal, and whether the business applications work normally.

After confirming that the previous steps are normal, start the "RoseReplicatorPro Control Center" and log in to the cluster host,

Select the application service, click the right-click menu, and execute the "Bring in" command

#### 9.3 Reasons for Failed Resource Switching

Manually execute the resource switching operation. The main reasons for the resource switching failure are as follows

The automatic synchronization of data has not been completed yet. The switch can be successfully executed only after the automatic synchronization of data is completed

Resource operation.

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- Data synchronization is automatically started. For example, data synchronization is automatically started when resources are brought in;
- Data synchronization will be automatically started when some read/write failures occur.
- The resource startup of the standby host failed, causing the resource to fail back to the original host.By viewing the standby machine log,

Analyze and check what resources failed to start on the standby host side.

The data replication connection of dual computers is stopped (the data replication connection is "gray")

#### 9.4 How to configure the system's own firewall

> In the actual application environment, if the server is in the intranet, it is not

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required that the server must be set with anti

Firewall and other network security software can be turned off and set to never start.

To start the firewall of the operating system, please open the following ports and network communication permissions:

**TCP:** 7320, 7330

UDP: 7340, 7350 and heartbeat network heartbeat port

ICMP: Open ICMP (ping) packets of all network interfaces.

Windows system: Start ->Management Tools ->Windows Firewall with Advanced Security ->Inbound Rules

-Public ICMP, just start it.

Linux system: edit/etc/sysctl.conf to adjust net.ipv4.icmp\_echo\_ignore\_all=1

(1 means that 0 is prohibited. It means that you are allowed to save and exit the execution of sysctl after modification. - p enables the configuration to generate Effective)

#### 9.5 Heartbeat icon status is error

Check the following possible factors:

1) Check whether the heartbeat IP communication of the two hosts is normal.

2) Check whether network security software such as firewall is installed on the two hosts, and close it if any

3) Firewall or modify the network security configuration to allow heartbeat port communication.

 When setting some necessary network communication ports for RoseReplicatorPro, the set ports are

Occupied by other services of the system, port conflicts and inability to bind ports cause heartbeat

No way.

5) Check whether the License is expired or invalid

## 9.6 Cannot obtain heartbeat network

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Cause of the problem: Install Rose first and then configure the network.

**Solution:** resource group ->link configuration ->create interface, execute refresh operation to identify the new network configuration.

### 9.7 When HCP and pStor are deployed on the same server, the

#### establishment of database hot standby relationship is affected

**Cause of the problem:** The HCP watchdog failed to establish the database hot standby relationship when it was disturbed by the pStor database.

**Solution:** HCP 2.4.0 executes database script solution, HCP baseline version 2.4.1 is repaired

## **10 Precautions**

### **10.1 Precautions for manual switching**

User must wait until the status of the watchdog interface is marked as green (streaming) before you can manually switch. If it is red, you cannot manually switch. As shown below:

				,
	🖄 下载日志 🗐 热备数据库 😳 🔮 🙅	〕性能监测 🛛 数据库异常自恢复	配置 🕕	
服务管理器	服务名称	端口号	状态	操作
HikCentral Professional	> System Management Service(SYS)	8686;7664;7662;15310;15443	❷ 已启动	$\Box \Theta$
	HikCentral Professional Management Service	80;443;18001-18020	⊘ 已启动	$\square$ $\Theta$
	Streaming Gateway	554;16003;16000;16001;6678	⊘ 已启动	$\square \Theta$
	3rd Party Device Access Gateway		⊘ 已启动	$\Box \Theta$
全部重启	Extended Device Access Service		⊘ 已启动	$\square$ $\Theta$
运行时间:				
1天 02:55:03				
			☑ 开机启动	□ ᅿ 本机部署

## 10.2 Error mark clearing

When a service exception occurs, an exception mark is displayed in the service column on the right of the Rose interface, which is cleared within one hour by default; If the environment has been restored manually, you can right-click the service on the interface and clear the error mark in the right-click menu.



After clearing the error mark, you need to manually restart the BeeAgent service