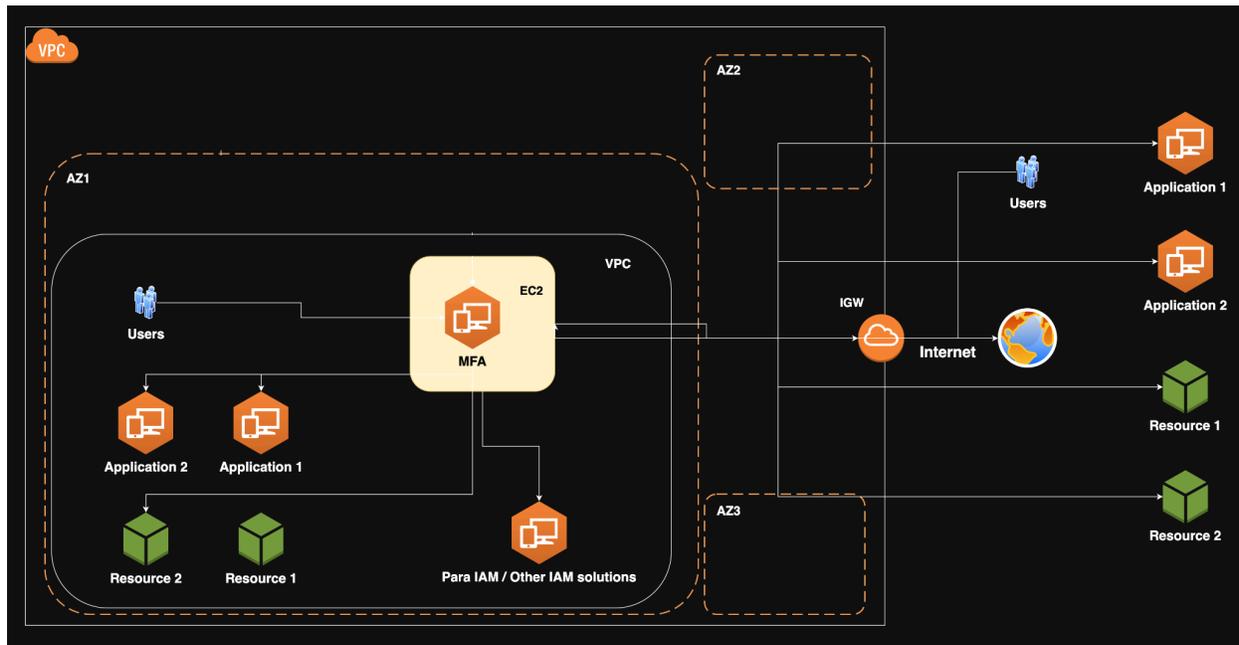


# Paraview MFA Installation Guide for HuaweiCloud

## Prerequisites

- HuaweiCloud account with administrative privileges
- Default VPC or a VPC with a Public Subnet
- Necessary region access and resources.

## Architecture



## Step 1: Infrastructure Check

1. Launch the HuaweiCloud console and pick the region you want to deploy to. At least one Default VPC or user-defined VPC with Internet access is available.

## Step 2: Installation thru KooGallery Marketplace

1. Please open your Browser. We recommend Chrome and going to [KooGallery Marketplace](#).

2. Search **Paraview Software**, and you will see there are few software. Please click **Paraview Multi-Factor Authenticator**.
3. Pick your installation region, click subscription, and agree to the agreement.
4. Follow the instruction key in the RFS stack name. And the administration password.

< | Create Stack

Select Template — 
  **2 Configure Parameters** — 
  3 Configure Stack — 
  4 Confirm Configurations

\* Stack Name  The stack name must start with a letter and can contain a maximum of 128 characters, including letters, digits, underscores (\_), and hyphens (-). The stack name must be unique.

Description   20/255

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**Configure Parameters**

Enter a keyword.   Encrypt some resources based on the template requirements. 

Parameter	Value	Type	Description
* admin_password	<input type="password"/>	string	the admin password of ecs.
vpc_cidr	<input type="text" value="192.168.0.0/16"/>	string	Specifies the range of available subnets in the VPC. The value ranges from 10.0.0.0/8 to 10.255.255.0/24, ...
vpc_subnet_cidr	<input type="text" value="192.168.10.0/24"/>	string	Specifies the network segment on which the subnet resides. The value must be in CIDR format and within ...
vpc_subnet_gateway_ip	<input type="text" value="192.168.10.1"/>	string	Specifies the gateway of the subnet. The value must be a valid IP address in the subnet segment. Changin...
* charging_mode	<input type="text" value="postPaid"/>	string	Specifies the charging mode of the disk. The valid values are as follows:prePaid: the yearly/monthly billing ...
period_unit	<input type="text" value="month"/>	string	The period unit of the pre-paid purchase.Valid values are month and year. This parameter is mandatory if c...
period	<input type="text" value="1"/>	number	The period number of the pre-paid purchase. If period_unit is set to month , the value ranges from 1 to 9. If ...

5.

< | Create Stack

Select Template — 
  Configure Parameters — 
  **3 Configure Stack** — 
  4 Confirm Configurations

Agency    [How to Create an Agency?](#)

An agency can clearly define RFS's operation permissions (such as creation, update, and deletion) on stack resources. If the agency permissions are insufficient, subsequent operations such as deployment and execution plan creation may fail. [Create Agency on IAM](#)

**1** Recommended. If no agency is configured, RFS will have the permissions of the current user for deployment. An agency limits RFS's permissions on cloud service resources, preventing undesired operations caused by incorrect templates or parameters.

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Auto-Rollback  If auto-rollback is enabled, the stack automatically rolls back to the previous successful resource status when the operation fails. After the stack is created, you can modify the stack configurations on its details page.

Deletion Protection  Deletion protection prevents the stack from being deleted accidentally. You can modify it on the stack details page.

6.



**Create Stack**

✓ Select Template — ✓ Configure Parameters — ✓ Configure Stack — **4** Confirm Configurations

**1** RFS is free of charge, but the resources in the stack are not. Currently, you need to create an execution plan (free of charge) to obtain the estimated price.

**Template Info**

Stack Name	Description
paraview-pam-stack	Paraview pam for HCL

**Parameters**

Parameter Name	Value	Type	Description
admin_password	*****	string	the admin password of ecs.
vpc_cidr	192.168.0.0/16	string	Specifies the range of available subnets in the VPC. The value ranges from 10.0.0.0/8 to 10.255.255.0/24, 172.1...
vpc_subnet_cidr	192.168.10.0/24	string	Specifies the network segment on which the subnet resides. The value must be in CIDR format and within the CI...
vpc_subnet_gateway_ip	192.168.10.1	string	Specifies the gateway of the subnet. The value must be a valid IP address in the subnet segment. Changing this...
charging_mode	postPaid	string	Specifies the charging mode of the disk. The valid values are as follows:prePaid: the yearly/monthly billing mode...
period_unit	month	string	The period unit of the pre-paid purchase.Valid values are month and year. This parameter is mandatory if chargi...
period	1	number	The period number of the pre-paid purchase. If period_unit is set to month , the value ranges from 1 to 9. If perio...

**Stack Settings**

IAM Permission	Auto-Rollback	Disabled	Deletion Protection	Disabled
Agency	--			

Estimated fee: You can obtain the estimated fee after creating an execution plan (free of charge).

[Previous](#) [Create Execution Plan](#) [Directly Deploy Stack](#)

7.

## Create Execution Plan



**1** To preview your resource billing information, you can create an execution plan.

\* Execution Plan Name

paraview-pam-hcl-stack

Description

Paraview pam for hcl stack



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OK

Cancel

8.

paraview-pam-stack

Delete Update Template/Parameter

Basic Information Resources Outputs Events Template Execution Plans

Deploy

Enter a keyword.

Execution Plan Name/ID	Status	Estimated Price	Created	Description	Operation
paraview-pam-hcl-stack e66d9b58-d541-4f8b-a...	Available	View Details	Mar 17, 2025 03:31:25 G...	Paraview pam for hcl...	Deploy Delete

9.

10. Once it's done, please check the Outputs for login credentials.

paraview-pam-stack

Delete Update Template/Parameter

Basic Information Resources Outputs Events Template Execution Plans

Welcome to Paraview PAM standalone Trial edition. Please wait about 5mins then you should be able to access http://119.8.186.23 with \_sysadmin and Admin.123 credential.

Enter a keyword.

Name	Type	Description
info	string	Welcome to Paraview PAM standalone Trial ed...

**Note:** Please be patient. The installation process will take around 5 minutes. Please check the **Output** for your application default credential.

## Step 3: Troubleshooting

1. Open ECS service
2. Search for paraview-pam-standalone-trial-hcl vm
3. From Operation Remote Login

### Logging In to a Linux ECS ?



Ensure that the security groups allow access to port 21, 22, 80, 443, 3389 and ICMP. [View port functions](#)  
[Configure security group rules](#)

#### CloudShell-based Login (Default Port: 22) Recommended

You can copy and paste commands, manage multiple sessions, and log in to multiple ECSs easily.

Log In

#### Other Login Modes

[CBH-based Login](#) [VNC Login](#)

If you have any remote login issues, you can troubleshoot them based on the help documentation. [View FAQs](#)

4.

The screenshot shows a configuration window for logging into a Linux ECS. The fields are as follows:

- Region: ap-southeast-3 (with a Refresh button)
- ECS: paraview-pam-standalone-trial-hcl (with a refresh icon)
- IP Selection: 119.8.186.23 (EIP) is selected, 192.168.10.235 (Private IP) is unselected.
- Port: 22
- User: root (with a refresh icon)
- Auth-Type: Password-based (with a dropdown arrow)
- Password: Key in your defined admin password (with a red warning icon)
- Session Name: root@119.8.186.23 (with a refresh icon)
- Open Remote Host Filesystem

Note:

- To ensure the security of the connection, the system will automatically disconnect sessions that have not been active for more than **20 minutes**.
- Please make sure to add inbound rules to allow external network traffic from [CloudShell Proxy Server](#) (SSH default port 22) to be sent to the ECSs in the security group.
- When operations get stuck after remote login, please check the CPU and memory of the machine. Please configure [Cloud Eye](#) to send alarm notifications when abnormal ECS events occur.
- Huawei CloudShell will not save your password, please keep it properly.

Buttons: [Connect](#) [Cancel](#)

5.

6. `#tail -f /var/log/cloud-init-out.log` for installation details.