Ruijie Reyee RG-OCE Identity Manager

Installation Guide

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This manual is designed merely as a user guide. Ruijie Networks has tried its best to ensure the accuracy and reliability of the content when compiling this manual, but it does not guarantee that the content of the manual is completely free of errors or omissions, and all the information in this manual does not constitute any explicit or implicit warranties.

Preface

Intended Audience

This document is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Technical Support

- Ruijie Reyee website: https://reyee.ruijie.com
- Online support center: https://reyee.ruijie.com/en-global/support
- Case portal: https://www.ruijie.com/support/caseportal
- Community: https://community.ruijienetworks.com
- Email support: service_rj@ruijie.com
- Live chat: https://reyee.ruijie.com/en-global/rita

Conventions

1. Signs

The signs used in this document are described as below:

Danger

An alert that calls attention to safety operation instructions that if not understood or followed when operating the device can result in physical injury.

Warning

An alert that calls attention to important rules and information that if not understood or followed can result in data loss or equipment damage.

Caution

An alert that calls attention to essential information that if not understood or followed can result in function failure or performance degradation.

Note

An alert that contains additional or supplementary information that if not understood or followed will not lead to serious consequences.

Specification

An alert that contains a description of product or version support.

2. Note

This manual provides the device installation steps, hardware troubleshooting, module technical specifications, and specifications and usage guidelines for cables and connectors. It is intended for the users who have some experience in installing and maintaining network hardware. At the same time, it is assumed that the users are already familiar with the related terms and concepts.

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1 Product Overview

1.1 Overview of the Ruijie Reyee RG-OCE Identity Manager

The Ruijie Reyee Omni-Control Engine (OCE) is an on-premises platform of Ruijie public cloud. It consists of two components: the OCE Identity Manager for identity authentication, known as Network Access Control (NAC) or Authentication, Authorization, Accounting (AAA) built with a RADIUS server, and the OCE Network Manager for network device management, known as NMS server. The OCE can be easily installed on a physical server or ESXI VM instance.

The OCE Identity Manager features an innovative UI and simple configuration steps. It supports both wireless and wired 802.1X authentication, as well as captive portal authentication. It also provides easy access control with MAB authentication for IoT devices. It supports multiple authentication and authorization sources (local account/AD/LDAP), and can easily integrate with existing data sources. Besides, it offers rich authorization policies, including dynamic VLAN assignment, QoS, concurrent users, traffic usage, and time period control, along with flexible portal authentication methods.

1.2 Key Features

- On-Premises Deployment
  - Software installed on a local server
  - High-security data protection
  - Supports deployment on the VMware ESXi and physical deployment
  - Supports Ruijie, Reyee and third-party devices
- User-friendly UI
  - Simple configuration of authentication policies for network devices in three steps
  - Intuitive dashboard and real-time status monitoring
  - Easily locate authentication exceptions and visibility on 802.1x requests
- Flexible Authentication Methods
  - Wireless and wired 802.1X, and captive portal authentication
  - 802.1X with dynamic VLAN assignment
  - MAB authentication for IoT devices
  - Supports multiple authentication and authorization sources (local account/AD/LDAP)
- Rich Authorization Control Policies
  - Control of concurrent online clients
  - Valid time period control
  - Valid traffic quota control
  - Dynamic QoS
  - Dynamic VLAN assignment

- Marketing Campaign & Captive Portal
  - Integrated captive portal module, supporting One-Click, Voucher, SMS Code, Account login and Email registration methods
  - Supports rich customization options for the captive portal page, such as background image, logo, welcome text, advertisement images or video, and button styles
  - Supports 10+ languages for the portal page, and flexible customization of the page language

2 Deployment

2.1 Preparations Before Deployment

2.1.1 Server Hardware Requirements

The following table lists the minimum server hardware requirements for the OCE Identity Manager, based on the maximum number of concurrent users.

Table 2-1 Minimum Server Hardware Requirements

Max. Number of Concurrent Users	CPU	Memory	Hard Disk Drive	Operating System
300	2-core	8 GB	100 GB SSD	Rocky Linux 8.10
1,000	4-core	16 GB	300 GB SSD	Rocky Linux 8.10
5,000	4-core	32 GB	1 TB SSD	Rocky Linux 8.10
10,000	8-core	64 GB	1 TB SSD	Rocky Linux 8.10
>10,000 or Cluster Deployment	Supported and Contact Ruijie Support Team			

Note

- The OCE Identity Manager can be deployed on a VM instance.
- You are advised to visit https://download.rockylinux.org/pub/rocky/8/isos/x86_64/Rocky-8.10-x86_64-minimal.iso to download the Rocky Linux 8.10 image file.

2.2 Installation and Deployment

Note

- Do not install OCE NM and IM on the same VM, as this will cause conflicts and render them inoperable.

Installation Procedure

(1) Download the OCE Identity Manager installation package. Package name: RG-OCE-IMxxx.tar.gz.

```
cd /root
yum -y install wget tar
# the download link get from RD team
wget https://xxxxxxx/RG-OCE-IMxxx.tar.gz
```

(2) Unzip the installation package.

```
tar -xzvf RG-OCE-IMxxx.tar.gz
```

(3) Deploy the OCE Identity Manager.

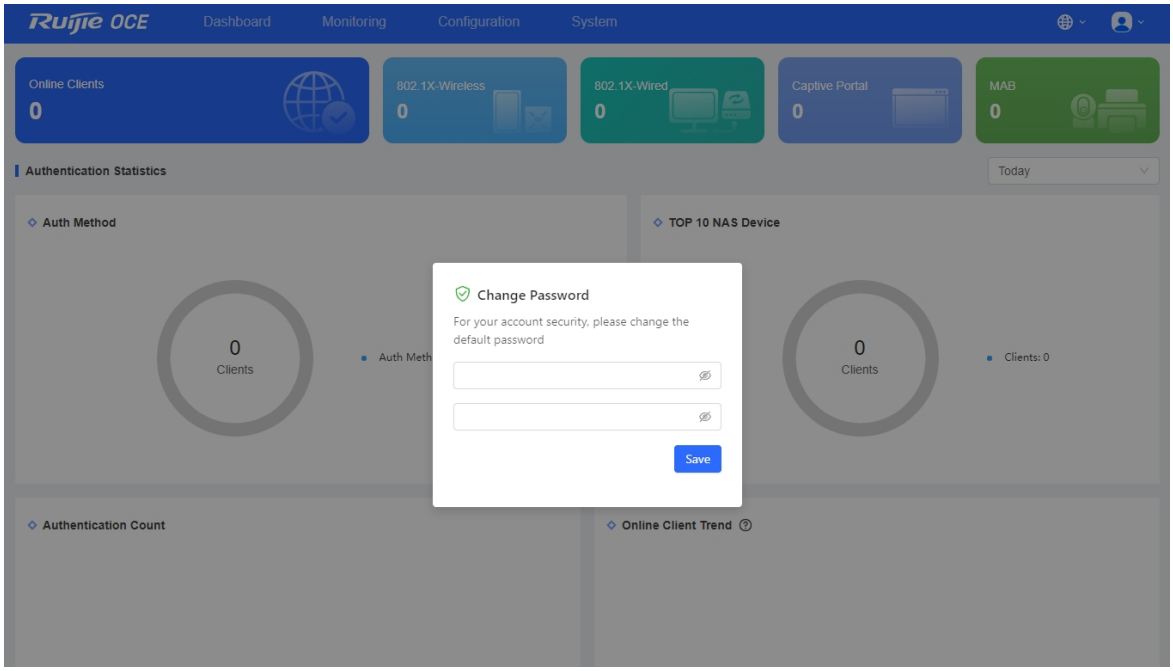
```
cd init-auth
chmod +x install
 ./install
```

(4) The following message is displayed after the installation is successful.

```
2024-10-11 07:21:21 [info] begin to install telegraf
2024-10-11 07:21:39 [info] finished to install telegraf
2024-10-11 07:22:26 [info] finish install_oceradiusd_tools success
2024-10-11 07:22:26 [info] install oceradiusd starting
2024-10-11 07:23:55 [info] make install_radius success
2024-10-11 07:25:15 [info] make install nginx success
Created symlink /etc/systemd/system/multi-user.target.wants/smb.service → /usr/lib/systemd/system/smb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/winbind.service → /usr/lib/systemd/system/winbind.service.
Created symlink /etc/systemd/system/multi-user.target.wants/oceradiusd.service → /usr/lib/systemd/system/oceradiusd.service.
2024-10-11 07:25:16 [info] install oceradiusd finished
[root@localhost init-auth]#
[root@localhost init-auth]#
```

2.3 Logging In to the User Interface

Enter https://x.x.x.x into the address bar of Google Chrome to access the login page. For initial login, the username is adminsys and the password is auth@123.com. You are advised to change the default password upon first login to ensure account security.



2.4 Upgrading the OCE Identity Manager

When a new version of the OCE Identity Manager is available, follow these steps to upgrade.

(1) Download the package to the server. Package name: RG-OCE-IMxxx.tar.gz.

```
# the download link get from RD team
wget https://xxxxxxx/RG-OCE-IMxxx.tar.gz
```

(2) Unzip the package.

```
tar -xzvf RG-OCE-IMxxx.tar.gz
cd init-auth
```

(3) Execute the command to install it.

```
chmod +x upgrade
./upgrade
```