

Huawei iMaster NCE Campus Setup


Prerequisites

1. Sign up for a Reseller account by contacting the SafeDNS Sales team (sales@safedns.com).
2. Create a sub-account for each tenant or group of tenants, implementing the multi-tenant capability of SafeDNS.
3. Configure the filtering rules for each tenant.
4. Receive the public Subscription API key from the SafeDNS manager.

To read more about API methods, please check the [Subscription API documentation](#).

Setup

Connect a SafeDNS account to iMaster NCE controller

 This page is used to configure the thirdparty DNS information. To enable the URL filtering !

Configure the thirdparty DNS servers, and use it when notificating device.

• DNS IP-Address Main:

DNS IP-Address
Secondary:

Configure the external system, and use it when informing the AP's IP address.

• Account:

• Public key:

Remarks:

Data audit plan settings for data consistency between Third-party and Controller

☒ Fixed time execution ☐ Cycle interval execution

Daily at o'clock

1. Navigate to **System > System Settings > Third-Party Service > DNS Interconnection Parameters**.
2. Fill information in the following fields:
 - DNS IP-Address Main: 195.46.39.39
 - DNS IP-Address Secondary: 195.46.39.40
 - Account: sub-account to connect to SafeDNS
 - Public key: public Subscription API key

Activate URL-Filtering

1. Select a site in iMaster NCE controller, on which you want to use URL Filtering
2. Navigate to **Provision > Physical Network > Site Configuration**.
3. Select a site from the site drop-down list in the upper left corner.
4. Navigate to the **Site Configuration** tab.
5. Navigate to **AP > Advanced**.
6. Enable DHCP.
7. Set DHCP server parameters.
8. Enable Third-party URL Filtering.

DHCP:

DHCP

* IP:

10.1.1.1

* Mask:

24

Advanced

Log record:

Third-party URL Filtering:

To enable third-party URL filtering, you need to configure third-party DNS interconnection parameters on the [System > System Settings > Third-party Service > DNS Interconnection Parameter](#).

* Lease:

1

Day

0

Hour

0

Minute

All 0s indicate an infinite period.

Master WINS:

Slave WINS:

Static address binding:

Add

Delete

IP Address

MAC Address

Operation

No records found.

LAN VLAN

A LAN-side VLAN cannot be a service VLAN which is in use. NAT and IPsec users will be forced offline when this is modified. The LAN VLAN cannot be the same as the management VLAN. Otherwise, the configuration

* VLAN ID:

3911

(Optional) Update TLS certificate

A SafeDNS certificate is used for unidirectional authentication between iMaster NCE-Campus and a third-party SafeDNS server.

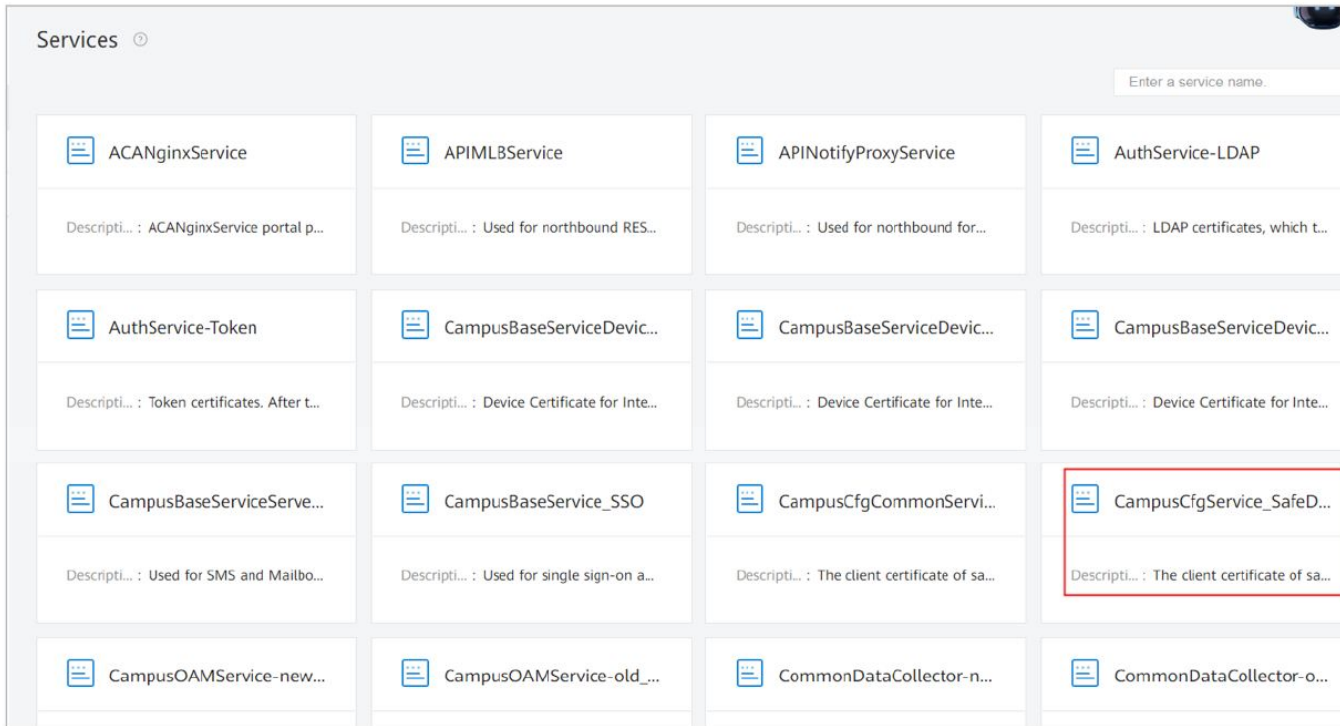
This operation is involved in URL filtering by SafeDNS.

By default, the SafeDNS certificate is preinstalled on iMaster NCE-Campus.

Contact SafeDNS if you need an updated certificate.

1. Log in to iMaster NCE Campus as the system administrator.
2. Navigate to **System > System Management > Certificate Management**.

3. Select **Service Certificate Management**



4. Select CampusCfgService_SafeDNS.

5. Click on the Trust Certificate tab.

6. Click Import.

Service Certificate Management > CampusCfgService_SafeDns > Import Trust Certificate

Trust certificates are issued by trusted authorities to verify identity certificates. To update the trust certificate of this service, you need to restart the service.

* Certificate alias:

* Certificate format:

* Certificate file: Certificate in .der, .cer, .crt formats are supported. The file size must be less than 50 KB.

Remarks:

0/340

Cancel Submit

7. Set Certificate Format to DER.

8. Select the certificate file and click Submit.

9. Wait for 2 minutes.

10. Restart the CampusCfgService service for the certificate to apply:

1. Log in to the management panel.
2. Navigate to Product > System Monitoring > Service tab.
3. Search for CampusCfgService.
4. Select the service.
5. Click Stop.
6. Click Start.

11. Log in to the iMaster NCE Campus and check whether the certificate file is successfully uploaded to the following path:

/opt/oss/NCECAMPUS/apps/CampusCfgService/controller/configuration/safedns

Revision #4

Created 29 September 2023 23:42:15 by Val Redman

Updated 28 April 2024 21:02:56 by Val Redman