

A BELDEN BRAND

DAC Installation Guide

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1 Revision History

| Revision | Date | Description |
|----------|----------|--|
| 2.5 | Apr-2022 | The 1 st published version |
| 2.6 | May-2022 | Update chapter 4.7 Get Device Code |
| 2.7 | Jul-2022 | Add default Account Name and Password in chapter 4.8 |

2 Environment Preparation

2.1 Configuration Requirements

DAC can be installed in the server, but here recommend creating new virtual machine for DAC installation. Server or virtual machine configuration requirements are as below:

1) Stand-alone mode

| AP/Clients | Configurations | HDD |
|------------------------|---------------------------------|----------------|
| 50APs + 1000Clients | 4 Cores CPU+16GB Memory+1T HDD | |
| 256APs + 5000Clients | 8 Cores CPU+16GB Memory+1T HDD | Read: 1.7GB/s |
| 500APs + 10000Clients | 12 Cores CPU+32GB Memory+1T HDD | Write: 134MB/s |
| 1000APs + 20000Clients | 24 Cores CPU+32GB Memory+1T HDD | |

2) Cluster mode

| AP/Clients | Configurations (per server) | HDD |
|------------------------|---------------------------------|----------------|
| 2000APs + 10000Clients | 12 Cores CPU+32GB Memory+2T HDD | Read: 1.7GB/s |
| 6000APs + 30000Clients | 24 Cores CPU+32GB Memory+2THDD | Write: 134MB/s |

Note:

- Cluster mode require minimum 3pcs servers.
- Server host names must be unique.

2.2 Download Linux

Download Ubuntu 16.04.x from <u>https://releases.ubuntu.com/16.04.7/ubuntu-16.04.7-server-amd64.iso</u>.

Note: DAC only support Ubuntu 16.04.x.

2.3 Create New Virtual Machine

Open VMware ESXi to create new virtual machine, as shown in Figure 2-3-1.

| vmware° esxi [™] | |
|---|--|
| Navigator | 🔓 bogon - Virtual Machines |
| ▼ Host Manage Monitor | Treate / Register VM P Virtual machine |
| Virtual Machines 3 Virtual Machines 3 Storage 3 Networking 2 | solution Linux - solution Win10S solution OVE4.6 |
| ·(1) | Quick filters ~ |

Figure 2-3-1

2.4 Configuring Virtual Machine

Follow the steps below to configure virtual machine, click "Next" for the steps not mentioned.

1) Select "Create a new virtual machine", click "Next".



Figure 2-4-1

2) Config as shown in Figure 2-4-2, click "Next".

| 1 New virtual machine - DAC (ESXi 6 | .7 virtual machine) | | |
|--|--|---|--------|
| 1 Select creation type 2 Select a name and guest OS 3 Select storage | Select a name and guest OS Specify a unique name and OS | 5 | |
| 4 Customize settings | Name | | |
| 5 Heady to complete | DAC Virtual machine names can contain up to 80 | characters and they must be unique within each ESXi instance. | |
| | Identifying the guest operating system here installation. | allows the wizard to provide the appropriate defaults for the operating | system |
| | Compatibility | ESXi 6.7 virtual machine | ~ |
| | Guest OS family | Linux | ~ |
| | Guest OS version | Ubuntu Linux (64-bit) | ~ |
| | | | |
| | | | |
| | | | |
| vm ware [®] | | | |
| | | Back Next Finish | Cancel |

Figure 2-4-2

3) Select the number of cores per processor, memory and hard disk for this virtual machine, refer chapter 2.1 for detailed configuration requirements.

| Select creation type | Please select an ISO image | for the CDROM | | |
|--|--------------------------------------|---|-------------|----|
| Select a name and guest OS Select storage | Configure the virtual machine hardwa | re and virtual machine additional options | | |
| Customize settings Ready to complete | Virtual Hardware VM Options | | | |
| | Add hard disk 🛤 Add netw | ork adapter 🛛 昌 Add other device | | |
| | F 🔲 CPU 🚹 | 4 ~ 👔 | | |
| | Memory A | 16384 MB ~ | | |
| |) 🛄 Hard disk 1 🛕 | 100 GB ~ | | 0 |
| | SCSI Controller 0 | LSI Logic Parallel | ~ | 0 |
| | SATA Controller 0 | | | 0 |
| | USB controller 1 | USB 2.0 | ~ | 0 |
| | ► Metwork Adapter 1 | DHCP | V Connect | ø |
| | - 💿 CD/DVD Drive 1 | Datastore ISO file | V Connect | 0 |
| vm ware [®] | Status | Connect at power on | | |
| | | Back | Next Finish | Ca |
| | | | | |

4) Select "Datastore ISO file" in "CD/DVD Drive1", create new directory and upload Ubuntu OS file downloaded in chapter 2.2, click "Next".



Figure 2-4-4

5) Click "Finish".

1

6) Power on the VM, and open browser console.

| reate / Register VI | M 🛃 C | Console | Power on | Power off 🛛 🔢 S | uspend 🕴 Ċ R | efresh 🛛 🛔 | Actions |
|--|--|------------------------------------|---------------------|------------------------|--------------|------------|---------------|
| Virtual machine | C. | Open bro | owser console | Status 🗸 🗸 | Used space | ~ | Guest OS |
| solution Linux | ÷ | Or Open | an in-browser conso | le for this virtual ma | rB | | Ubuntu Linux |
| solution Win1 | OServ 🖳 | Open co | nsole in new tab | 📀 Normal | 213.02 GB | | Microsoft Wir |
| solution OVE4 | .6R1 🛒 | Launch r | emote console | Normal | 38.7 GB | | CentOS 4/5 c |
| 🐴 DAC | * | Downloa | d VMRC | Vormal | 100 GB | | Ubuntu Linux |
| Lan | guage | Acres 1 | DAC | | | | |
| Amaric Français Arabic Gaeilge Asturianu Galego | MakegoHcku Malayalam Marathi | Tanii తెలును Thai | Guest OS | Ubuntu Lin | ux (64-bit) | | |
| Български ліци Вengali Hindi | Nepali Nederlands | Türkçe Uyghur | Compatibility | | | | |
| | Norsk bokmal | Українська Tiếng Việt | VMware Tools | No | | | |
| Tibetan Hrvatski Bosanski Magyar Català Babasa Infonesia | Norsk nynorsk Punjabi (Gurmukbi) | 由文(治(体) | | 4 | | | |
| Tibetan Hrvatski Bosanski Magyar Català Bahasa Indonesia Čeština Íslenska Dansk Italiano | Norsk nynorsk Punjabi (Gurmukhi) Polski Português do Brasil | 中又(尚体) 中文(繁體) | CPUs | 4 | | | |
| Tibetan Hrvatski Bosanski Magyar Català Bahasa Indonesia Čeština İslenska Dansk Italiano Deutsch 日本語 Dzongkha 승녀주곳e | Norsk nynorsk Punjabi (Gurmukhi) Polski Português do Brasil Português Română | 中又(創体) 中文(繁體) | CPUs Memory | 4 16 GB | | | |
| Tibetan Hrvatski Bosanski Magyar Català Bahasa Indonesia Čeština Islenska Dansk Italiano Deutsch 日本語 Dzongsha ś-რ-ფce ExAnyukă Kasak English Khare | Norsk nynorsk Punjabi (Gurmukhi) Polski Português do Brasil Português Română Pycckwi Sâmegillii #^???? | 中又(前体) 中文(繁體) | CPUs Memory | 4 16 GB | | | |
| Bengali Hindi | Nederlands Norsk bokmål | Uyghur Українська Tiếng Việt | VMware Tools | No | | | |

Figure 2-4-5

- 7) Select "English" and install Ubuntu Server.
- 8) Select "Language and Location", do not detect keyboard layout, then config the keyboard and the

Installation Guide Release 19 07/2022 network, Set up users and passwords, do not encrypt your home directory.

| [!] Configure the keyboard | | | |
|---|-------------|-----------|--|
| You can try to have your keyboard layout detected by pressing a series of keys. If you do not want to do this, you will be able to select your keyboard layout from a list. | | | |
| Detect keyboard layout? | | | |
| <go back=""></go> | <yes></yes> | <no></no> | |
| Figure 2-4-6 | | | |
| [!] Set up users and passwords | | | |
| You may configure your home directory for encryption, such that any files stored there remain private even if your computer is stolen. | | | |
| The system will seamlessly mount your encrypted home directory each time you login and automatically unmount when you log out of all active sessions. | | | |
| Encrypt your home directory? | | | |
| <go back=""></go> | <yes></yes> | <no></no> | |

Figure 2-4-7

9) "Partition disks", as shown in the following figure.

| [!!] Partition disks | | | | |
|--|--|--|--|--|
| The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results. | | | | |
| If you choose guided partitioning for an entire disk, you will next be asked which disk should be used. | | | | |
| Partitioning method: | | | | |
| Guided – use entire disk <mark>Guided – use entire disk and set up LVM</mark> Guided – use entire disk and set up encrypted LVM Manual | | | | |
| <go back=""></go> | | | | |
| Figure 2-4-8 | | | | |
| [!!] Partition disks | | | | |
| Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes. | | | | |
| Select disk to partition: | | | | |
| SCSI33 (0,0,0) (sda) – 107.4 GB VMware Virtual disk | | | | |
| <go back=""></go> | | | | |

Figure 2-4-9

| 1 | [1] Partition disks |
|---|---|
| | |
| | Before the Logical Volume Manager can be configured, the current partitioning scheme has to be written to disk. These changes cannot be undone. |
| | After the Logical Volume Manager is configured, no additional changes to the partitioning scheme of disks containing physical volumes are allowed during the installation. Please decide if you are satisfied with the current partitioning scheme before continuing. |
| | The partition tables of the following devices are changed: SCSI33 (0,0,0) (sda) |
| | Write the changes to disks and configure LVM? |
| | < <u>Yes></u> < <u>No</u> > |
| | |
| | Figure 2-4-10 |
| 1 | [!] Partition disks |
| | You may use the whole volume group for guided partitioning, or part of it. If you use only part of it, or if you add more disks later, then you will be able to grow logical |

volumes later using the LVM tools, so using a smaller part of the volume group at installation time may offer more flexibility. The minimum size of the selected partitioning recipe is 1.9 GB (or 1%); please note that the packages you choose to install may require more space than this. The maximum

Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percentage (e.g. "20%") to use that percentage of the maximum size.

Figure 2-4-11

Amount of volume group to use for guided partitioning:

98%_____

<Go Back>

available size is 106.6 GB.

<Continue>

 [!!] Partition disks

 If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

 The partition tables of the following devices are changed:

 LVM VG DAC-server-vg, LV root

 LVM VG DAC-server-vg, LV swap_1

 SCSI33 (0,0,0) (sda)

 The following partitions are going to be formatted:

 LVM VG DAC-server-vg, LV root as ext4

 LVM VG DAC-server-vg, LV swap_1 as swap

 partition #1 of SCSI33 (0,0,0) (sda) as ext2

 Write the changes to disks?

 XYESX



10) Do not config http proxy information.

| [!] Configure the package manager | |
|---|-----------------------|
| If you need to use a HTTP proxy to access the outside world, enter the here. Otherwise, leave this blank. | proxy information |
| The proxy information should be given in the standard form of "http://[[user][:pass]@]host[:port]/". | |
| HTTP proxy information (blank for none): | |
| | |
| <go back=""></go> | <continue></continue> |
| | |

Figure 2-4-13

11) Select "No automatic updates".

🕂 [!] Configuring tasksel ⊢

Applying updates on a frequent basis is an important part of keeping your system secure.

By default, updates need to be applied manually using package management tools. Alternatively, you can choose to have this system automatically download and install security updates, or you can choose to manage this system over the web as part of a group of systems using Canonical's Landscape service.

How do you want to manage upgrades on this system?

No automatic updates Install security updates automatically Manage system with Landscape

Figure 2-4-14

12) Select "OpenSSH-server" using space key.

At the moment, only the core of the system is installed. To tune the system to your needs, you can choose to install one or more of the following predefined collections of software.

Choose software to install:

| | Manual package selection |
|----|---------------------------|
| | DNS server |
| | LAMP server |
| | Mail server |
| | PostgreSQL database |
| | Samba file server |
| *] | standard system utilities |
| | Virtual Machine host |
| *] | OpenSSH server |
| | |

<Continue>

13) Then select "Yes".

Figure 2-4-15

| [!] Install the GRUB boot loader on a hard disk | |
|--|----------------|
| It seems that this new installation is the only operating system on this computer. I it should be safe to install the GRUB boot loader to the master boot record of your hard drive. | f so, first |
| Warning: If the installer failed to detect another operating system that is present your computer, modifying the master boot record will make that operating system temporarily unbootable, though GRUB can be manually configured later to boot it. | on |
| Install the GRUB boot loader to the master boot record? | |
| <go back=""> <yes> <no< td=""></no<></yes></go> | > |
| | |

Figure 2-4-16

14) Continue to restart.

🕂 [!!] Finish the installation ⊢

Installation complete Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media (CD–ROM, floppies), so that you boot into the new system rather than restarting the installation.

<Go Back>

<Continue>

Figure 2-4-17

2.5 Install Ubuntu System

The virtual machine will automatically install the Ubuntu system, wait for the Ubuntu system installed successfully and login to the virtual machine with the username and password in chapter 2.4.



Figure 2-5-1

3 DAC Software Packages Preparation

3.1 Get Administrator Privileges

- 1) Enter "sudo su" in virtual machine;
- 2) Input virtual machine password;

| lacserver@DAC-server:"\$ sudo su | |
|----------------------------------|--|
| [sudo] password for dacserver: | |
| root@DAC-server:/home/dacserver# | |
| | |

Figure 3-1-1

3) Set root user password, use command "sudo passowrd";

3.2 Allow Root User SSH Remote Login

- 1) Enter "vi /etc/ssh/sshd_config" in virtual machine, enter "i" to enter edit mode;
- 2) Update PermitRootLogin prohibit-password to PermitRootLogin yes, enter "Esc" exit edit mode;
- 3) Enter "wq" to save the update;
- 4) Enter "/etc/init.d/ssh restart" in virtual machine to active above setup;

```
# What ports, IPs and protocols we listen for
Port 22
# Use these options to restrict which interfaces/protocols sshd will bind to
#ListenAddress ::
#ListenAddress 0.0.0.0
Protocol 2
# HostKey sfor protocol version 2
HostKey /etc/ssh/ssh_host_rsa_key
HostKey /etc/ssh/ssh_host_dsa_key
HostKey /etc/ssh/ssh_host_ed25519_key
#Privilege Separation is turned on for security
UsePrivilegeSeparation yes
# Lifetime and size of ephemeral version 1 server key
KeyRegenerationInterval 3600
ServerKeyBits 1024
# Logging
SyslogFacility AUTH
LogLevel INFO
# Authentication:
LoginGraceTime 120
PermitRootLogin yes
```

Figure 3-2-1

3.3 Add Domain Name Resolution

- 1) Enter "vi /etc/network/interfaces" in virtual machine, enter "i" to enter edit mode.
- 2) Config network information as shown in Figure 3-3-1, don't change the iface number.
- 3) Add dns-nameservers 8.8.8.8, enter "Esc" to exit edit mode.
- 4) Enter "wq" to save the update.
- 5) Enter "/etc/init.d/networking" restart in virtual machine to active above setup.
- 6) Type "ping www.google.com" to check above configuration, as shown in Figure 3-3-2.



Figure 3-3-1



Figure 3-3-2

3.4 Download DAC Installation Package

Download DAC installation package from https://hirschmann-it-

<u>support.belden.com/en/downloads/dragonfly-wireless</u>. The Login page is shown in Figure 3-4-1. For first login, you may need to register an account.

| HIRSCHMANN IT | Hirschmann-IT | | | | 📕 English | Submit Ticket | Login |
|---------------|---------------|-----|---------------|---|-----------|---------------|-------|
| | | | | | | | |
| | | | | How can we help you today? | | | |
| | | | | | | | |
| | | No. | promiser 100g | Log in Already have an account? LogIn below. Your email Your password Your password Need a password reminder? | | | |
| | | | | Togen StayLogged In? Register for an account Register an account so you can easily manage your communications. Register | | | |



3.5 Upload Installation Package to Virtual Machine

1) Run WinSCP in Server, enter virtual machine information as shown in Figure 3-5-1.

| 🌆 Login | - × |
|---|---|
| New Site workspace root@192.168.2.11 root@192.168.4.22 | Session Eile protocol: SCP Host name: 192.168.2.11 22 |
| | User name: Password: root Save ▼ Cancel A <u>d</u> vanced ▼ |
| Tools ▼ Manage ▼ Show Login dialog on startup and when the last | t session is closed |

Figure 3-5-1

2) Select target directory, Figure 3-5-2 is for Windows system and Figure 3-5-3 is for Linux system.

| ঌ tmp - root@192.168. | 2.11 - WinSC | CP. | | | | | _ | | \times |
|--------------------------|---|-------------------|------------------------|--------------------------|-----------|--------------------|-----------|--------|----------|
| Local Mark Files Com | imands Ses | sion Options Remo | ote Help | | | | | | |
| 🖶 🔀 🚔 Synchronize | 🗩 🦑 🖪 | 🛯 🔅 🔐 Queue | • Transfer Settings De | fault 🔹 💋 | - | | | | |
| 📮 root@192.168.2.11 × | <i>New !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!</i> | Session | | | | | | | |
| 🔜 Desktop 🔹 🖆 | - 🔽 - 🛛 | 🔶 • 🔶 • 📄 🔂 | 🏠 🤁 🐁 | - 🚰 • 🛐 | | - 🗈 🖻 🏠 🥭 | Q, Find F | iles 🔂 | |
| 🗐 Upload 👻 📝 Edit | • X 🕫 🕻 | Properties 📑 N | ew - 🕂 🖃 🗹 | Download 👻 📝 Ed | lit - 🗙 🚮 | D Properties | N - 🛨 | | |
| C:\Users\neil\Desktop\BL | .D\ | | | /tmp/ | | | | | |
| Name | Size | Туре | Changed | Name | Size | Changed | Rights | 0 | wner |
| ± | | Parent directory | 2021/8/17 16:15:05 | ± | | 2021/7/21 16:43:25 | rwxr-xr | r-x ro | oot |
| 🔄 ssl.crt | 2 KB | 安全证书 | 2021/8/17 16:15:05 | Open directory | | ? | × | ro | oot |
|] ssl.key | 4 KB | KEY 文件 | 2021/8/17 16:15:05 | Open directory: | (| 2 | r | ro | oot |
| | | | | C:\Users\neil\Deskto | b\BLD | ~ Brows | e | | |
| | | | L. L. L. | Site bookmarks Shared bo | okmarke | | | | |
| | | | | and booking and ed bo | UNITALINS | | | | |
| | | | | | | Add | | | |
| | | | | | | Remove | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | Up | | | |
| | | | | | | | | | |
| | | | | | | Down | | | |
| | | | | Lassier Deciles | 01 | Crearl | | | |
| | | | | Location Promes | ÜK | | , | | |
| | | | | | | | | | |
| | | | | < | | | | | > |
| 0 B of 5.13 KB in 0 of 2 | | | | 0 B of 0 B in 0 of 2 | | 0 | 67 | 5 h | idden |

Figure 3-5-2



Figure 3-5-3

3) Upload installation package to directory.

| Desktop • 🖀 | - 🔽 - 🛛 | 🗣 🔹 🚽 🔹 🔂 | | tmp • 🚰 • 🔽 |] • 🛛 🔶 • • | → → 🗈 🗖 🕯 | ì 🧭 🔯 Find Fil | es 🗜 |
|-----------------------------------|-----------------|--|---|---|--------------|--|--|--------------------------------------|
| C:\Users\nell\Desktop\BL | D\ | | | /tmp/ | | | | |
| Name DAC-1.1.4.1008.tar.gz | Size 4,295,0 | Type Parent directory 好压 GZ 压缩文件 | Changed 2021/10/25 10:28:03 2021/10/21 13:48:50 | Name t systemd-private-0f filexsdcUr | Size O KB | Changed 2021/7/21 16:43 2021/9/19 7:35: 2021/10/4 7:45: | Rights 3:25 rwxr-xr- 03 rwx 02 rw-rr- | Owner •x root - root - root |
| | | | d Upload file 'DAC-1.1.4.1 08.tar (http:/*.* 2 fer settings fer type: Binary ansfer in background (add to tran ransfer settings v not show this dialog box again | .gz' to remote directory: | Cancel | ? × v | | |
| 4.09 GB of 4.09 GB in 1 of | 1 | | | C C C C C C C C C C C C C C C C C C C | | | | 5 bidden |
| 4.09 GB OT 4.09 GB IN 1 OT | | | | U B OT U B IN U OT 2 | | A | SCP 🗐 | 3-21-29 |

Figure 3-5-4

Note:

- To install WinSCP into the server ahead.
- 4) Successful status as shown in Figure 3-5-5.

| Desktop 🔹 🚰 🔻 🛐 | 7 • • • • • E 🗈 | 1 2 % | - tmp 🔹 🚰 👻 🛐 | • • | 🔶 - 🗈 🔁 🏠 🥭 | 🔍 Find Files | 2 |
|---|--|---|---|-------------------------|--|-------------------------------------|-------------------------------|
| 📑 Upload 👻 📝 Edit 👻 🗙 | 🛃 🕞 Properties 📑 Ne | •w • + - 🗸 | 📓 Download 👻 📝 Edi | it - 🗙 🚮 | 🕞 Properties 🎽 Ner | w • 🕂 – | A |
| C:\Users\neil\Desktop\BLD\ | | | /tmp/ | | | | |
| C:\Users\nei\Desktop\BLD\ Name DAC-1.1.4.1008.tar.gz 4,25 | Size Type Parent directory 95,0 好压 GZ 压缩文件 | Changed 2021/10/25 13:43:22 2021/10/21 13:48:50 | /tmp/ Name systemd-private-Of DAC-1.1.4.1008.tar.gz hlexsdcUr | Size 4,295,0 0 KB | Changed 2021/7/21 16:43:25 2021/9/19 7:35:03 2021/10/21 13:48:50 2021/10/4 7:45:02 | Rights rwxr-xr-x rwy rw-rr | Owner root root root |
| 0.8 -6400 (8 - 0 -61 | | | < | | | | > |
| | | | 0 B 01 4.09 GB IN 0 01 3 | | G SCP | | 3:23:09 |

Figure 3-5-5

4 Installation and Uninstallation

4.1 Installation for Stand-Alone Mode

- 1) Create version directory: mkdir -p /tmp/x.x.x.xxxx.
- Move uploaded installation package to version directory: mv /tmp/DAC-XXXX.tar.gz /tmp/x.x.x.xxxx.
- 3) Enter version directory: cd /tmp/x.x.x.xxxx.
- 4) Unzip the installation package: tar -xzvf DAC-XXXX.tar.gz.
- 5) Enter directory: cd /tmp/x.x.x.xxxx/data/package-BLD and run ./check_md5.sh to check if unzip successfully.
- 6) Release installation script 755 permissions : sudo chmod 755 ./deployment-all.sh.
- 7) Run ./deployment-all.sh, enter 1 to start installation.



Figure 4-1-1

8) Input installation information in Figure 4-1-2.



DAC installation will proceed automatically until it is complete.

4.2 Installation for Cluster Mode

- 1) Specify one server in the cluster as the primary server.
- 2) Run the following command in each server for the first installation, then reboot them
 - a) sed -i "s/#DefaultLimitNOFILE=/DefaultLimitNOFILE=65535/g" /etc/systemd/system.conf
 - b) sed -i "s/#DefaultLimitNOFILE=/DefaultLimitNOFILE=65535/g" /etc/systemd/user.conf
- 3) Execute Step 1 to Step 7 in chapter 4.1 on the primary server.
- 4) Select cluster mode, fill the cluster information as shown in Figure 4-2-1 and installation will proceed automatically.

| 1. stand alone Install Cluster |
|--|
| 2. cluster |
| Please choose Mode(1/2):2 First Server Ip |
| Enter First Server IP:192.168.7.201 |
| IP 192.168.7.201 format correct! |
| Second Server Ip |
| TD 102 168 7 202 Format connect |
| 192.168.7.202 format correct: |
| Enter Third Server IP:102.168.7.202 IS up |
| TP 192 168 7 203 format correct |
| |
| Enter Virtual IP:192.168.7.208 |
| IP 192.168.7.208 format correct! |
| Enter your company into: Company info,Address info,Phonenum info |
| Enter your address info: |
| Enter your phonenum info: |
| your mode is cluster |
| |
| you second server TP is 192.108.7.202 |
| you cline size is 12 168 7 208 |
| your company name is: |
| vour address is: |
| your phonenum is: |
| the version is: 1.1.4.1008 |
| Are we continue?(y/n)y input 'y' to continue |
| Generating public/private rsa key pair. |
| Your identification has been saved in /root/.ssh/id_rsa. |
| Your public key has been saved in /root/.ssh/id_rsa.pub. |
| The key fingerprint is: |
| The key's prodoment among sign |
| the Res 2 and the rest |
| [KSA 2045] |
| |
| |
| * * + - |
| 0 B = S = . |
| |
| =E+0 0 + + |
| 00*0= . 0 + |
| .+.=0 |
| +[SHA250]+ |
| /usr/bin/ssh-copy-id: INFO: source of key(s) to be installed: /root/.ssh/id_rsa.pub |
| /usr/bin/ssh-copy-id: INFO: a tempting to log in with the new key(s), to inter out any it is to install the new keys |
| root 192 168 7 201's password. |
| First Server 'root' Password |
| Number of key(s) added: 1 |
| |
| Now try logging into the machine, with: "ssh 'root@192.168.7.201'" |
| and check to make sure that only the key(s) you wanted were added. |
| (very (big (ach group ide TWTC), Groups of Levis) to be installed. "(very (ach (id acc sub") |
| /usr/bin/ssh-copy-id: INFO: source of Key(s) to be installed: /root/.ssh/id_rsa.pub |
| /usr/bin/ssh-copy-id: INFO: attempting to log in with the new ey(s), to inter out any it is to install the new kove |
| root 192 168 7.202's password: |
| Sencond Server 'root' Password |
| Number of key(s) added: 1 |
| |
| Now try logging into the machine, with: "ssh 'root@192.168.7.202'" |
| and check to make sure that only the key(s) you wanted were added. |
| (use /bip/ssh some id. TWTO, Towned of New(s) to be installed, "(nest/ ssh/id nest sub" |
| $/usr/Dim/ssn-copy-id:$ INFO: source of Key(s) to be instanted: $/root/ssn/ld_rsa.pub$ |
| /usr/bin/ssh-copy-id. Theo, attempting to log in with the new key(s), to inter out any that is to install the new key(s) |
| Thord 192, 168, 7, 203 is password: |
| |

Figure 4-2-1

4.3 Installation and Service Status Check

Installation will take about 30mins dependance on server and network. After installation, need to check whether all services are normal.

1) Stand-alone mode

Command Line:

In the remote login tool, enter the command: docker ps -a. If the status is Up, the service is running normally.

| root@ubuntu:~# dock | er ps -a | | | | |
|---------------------|----------------------------|------------------------|-------------|------------|--|
| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS |
| 19201588983e | clientstatistics:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | NAMES |
| 6f17fefa3c9e | cspadmin-portal:1.1.5.2 | "tini /bin/sh -c 'ja…" | 5 hours ago | Up 5 hours | clientstatistics |
| 048c835a40fa | espinfoprovider:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | cspadmin-portal |
| 59c7e4dbca5c | message:1.1.5.2 | "/bin/go/microservic…" | 5 hours ago | Up 5 hours | espinfoprovider |
| 183ad030e6b4 | rest-esp:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | message |
| 367b51decd87 | scene:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | rest-esp |
| 922c7aaf47b8 | terminalcenter:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | scene |
| 095c334f891f | terminalinfogather:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | terminalcenter |
| 0b6ffbf8f1dc | dispatch-esp:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | terminalinfogather |
| efdbe2777556 | widsapgather:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | trapdispatch |
| cdaafde58ce1 | widsclientgather:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | widsapgather |
| 332eef80752f | dispatch-esp:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | widsclientgather |
| becd55c21878 | wiredclientgather:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | willdispatch |
| 3595f64d565a | wiredclients:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | wiredclientgather |
| 93b0b13f68ea | apinfogather:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | wiredclients |
| 31efe84411db | aprfinfogather:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | apinfogather |
| 5604463234b1 | apstatusgather:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | apriinfogather |
| 4d5862f2dc24 | authbroker:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | apstatusgather 0.0.0.0:2000->2000/udp |
| ef96fa4d1173 | clientdetail:1.1.5.2 | "/bin/go/microservic" | 5 hours ago | Up 5 hours | duchbroker |

Figure 4-3-1

URL:

Login URL http://XX.XX.XX.XX.7777 (xx.xx.xx is the IP address of the server), user name / password: admin / admin, you can view the service status. All service statuses are green and OK, indicates that the service is started normally.

| | | | | | | | Google Translate |
|---------------------|--------|--------|----------------------|--------------------------------|------------------------------|----------------|------------------------------|
| | | | Monit S | Service Manager | | | |
| | | | Mooil is a point | a on localbost and monitoring. | | | |
| | | | HIGH IS LATER | g on ocanos and nomonly. | | | |
| | | | | | | | |
| | | | | | | | |
| System | Status | | Load | | CPU | Memory | Swap |
| Invellent | OK. | | 13 00113 00114 073 | E 700 cm | 10 50 m 0 50 m 0 50 m | 28 28 8 8 CT1 | 2.7% (20.7.647) |
| ISS RUGOS | UK . | | [2:30] [3:00] [4:07] | 0.7 %ds | TO DISISY D. DISHE D. DISHWE | 30.3% [0.0 GB] | 3.7% [30.7 MB] |
| Process | | Status | Uptime | CPU Total | Memory Total | Read | Write |
| wabbitma | | OK | 2rl 1h 3m | 0.1% | 0.6% (99.6 MB) | 132.5 B/s | 4.5 B/s |
| wiredclients | | OK | 2d 0h 55m | 0.2% | 0.2% [33.3 MB] | 140 0 B/s | 118.6 B/s |
| wiredclientosther | | OK | 2d 0h 55m | 0.3% | 0.2% [26.9 MB] | 140.0 B/s | 121.1 B/s |
| willdispatch | | OK | 2d Oh 55m | 0.4% | 0.3% [41.5 MB] | 510.4 B/s | 454.7 B/s |
| widsservice | | OK | 2d 0h 56m | 0.2% | 0.1% [20.4 MB] | 0.8 B/s | 0.8 B/s |
| widschentgather | | OK | 2d 0h 55m | 0.2% | 0.2% [31.2 MB] | 137.2 B/s | 112.1.8/5 |
| widsapgather | | OK | 2d 0h 55m | 0.2% | 0.2% [34.0 MB] | 147.5 B/s | 120.0 B/s |
| vernemg | | OK | 2d th 3m | 0.1% | 0.7% [112.9 MB] | 0 B/s | 0 B/s |
| userservice | | OK | 2d 0h 56m | 0.2% | 0.3% [42.2 MB] | 175.6 B/s | 122.0 B/s |
| upgradedispatch | | OK | 2d 0h 57m | 0.3% | 0.2% [39.4 MB] | 540.6 B/s | 472.3 B/s |
| trapdispatch | | OK | 2d 0h 55m | 0.3% | 0.2% [38.3 MB] | 509.5 B/s | 449.9 B/s |
| toolservice | | OK | 2d 0h 56m | 0.2% | 0.2% [37.0 MB] | 230.0 B/s | 209.8 B/s |
| terminalinfogather | | OK | 2d Oh 55m | 0.3% | 0.2% [31.9 MB] | 144.0 B/s | 124.5 B/s |
| terminalcenter | | OK | 2d 0h 55m | 0.3% | 0.2% [24.6 MB] | 39.7 B/s | 4.0 B/s |
| systemproperty | | OK | 2d 0h 56m | 0.3% | 0.3% [43.9 MB] | 297.3 B/s | 174.3 B/s |
| scene | | OK | 2d 0h 55m | 0.3% | 0.4% [68.8 MB] | 229.5 B/s | 297.5 B/s |
| rest-esp | | OK | 2d 0h 55m | 0.3% | 0.4% [68.0 MB] | 292.9 B/s | 259.4 B/s |
| redis | | OK | 2d 1h 3m | 0.1% | 0.1% [12.0 MB] | 310.2 B/s | 416.0 B/s |
| postgres | | OK | 2d 1h 2m | 0.0% | 3.1% [501.3 MB] | 50.7 kB/s | 1.3 B/s |
| ocagent | | OK | 2d 0h 57m | 0.4% | 0.3% [50.2 MB] | 634.0 B/s | 512.0 B/s |
| nginx | | OK | 2d 0h 55m | 0.0% | 0.1% [14.7 MB] | 0 B/s | 0 B/s |
| mongo1 | | OK | 2d 1h 5m | 0.2% | 1.0% [163.2 MB] | 10.5 kB/s | 1.5 kB/s |
| message | | OK | 2d 0h 57m | 0.2% | 0.1% [20.3 MB] | 0 B/s | 0 B/s |
| mail-manager | | OK | 2d 0h 57m | 0.2% | 0.2% [28.8 MB] | 43.5 B/s | 5.6 B/s |
| logstash | | OK | 2d 0h 56m | 0.3% | 4.8% [772.9 MB] | 797.8 B/s | 1.7 kB/s |
| license | | OK | 2d 0h 56m | 0.2% | 0.3% [42.7 MB] | 198.9 B/s | 152.6 B/s |
| jobscheduler | | OK | 2d 0h 56m | 0.3% | 0.2% [31.1 MB] | 102.9 B/s | 204.9 B/s |
| infostatistics | | OK | 2d 0h 56m | 0.2% | 0.2% [38.8 MB] | 175.5 B/s | 193.2 B/s |
| hamservice | | OK | 2d 0h 56m | 0.2% | 0.2% [36.7 MB] | 80.7 B/s | 43.2 B/s |
| hamatcode | | OK | 2d 0h 56m | 0.2% | 0.1% [21.7 MB] | 2.6 B/s | 1.0 B/s |
| freeradius | | OK | 2d th 2m | 0.9% | 3.5% [562 MB] | 0 B/s | 0 B/s |
| espinfoprovider | | OK | 2d 0h 58m | 0.2% | 0.2% [30.0 MB] | 128.3 B/s | 114.2 B/s |
| dispatch | | OK | 2d 0h 56m | 0.4% | 0.2% [38.0 MB] | 735.7 B/s | 644.6 B/s |
| datasynchronization | | OK | 2d 0h 56m | 0.4% | 0.3% [43.3 MB] | 681.6 B/s | recting with crows 538.8 B/s |
| cspadmin-portal | | OK | 2d 0h 56m | 0.1% | 2.3% [372.3 MB] | 0 B/s | 0 B/s |
| cspadmin.call | | OK | 2d 0h 56m | 0.3% | 0.2% [37.7 MB] | 313.5 B/s | 242.5 B/s |
| cspadmin | | OK | 2d 0h 56m | 0.3% | 2.5% [402.6 MB] | 0 B/s | 0 B/s |

Figure 4-3-2

2) Cluster mode

Enter the command: kubectl get pod in the remote login tool. If the status of the service is Running, the service is running normally.

| root@ubuntu:~# kubectl get pod | | | | |
|---|-------|---------|----------|--------------|
| NAME | READY | STATUS | RESTARTS | AGE |
| apinfogather-bd5896cb7-9zxvs | 1/1 | Running | | 36m |
| aprfinfogather-69d9f56bf8-djst8 | 1/1 | Running | Θ | 35m |
| apservice-7b468b56b7-j2249 | 1/1 | Running | Θ | 35 m |
| apstatusgather-5cdf9c95dc-wsm2p | 1/1 | Running | Θ | 35m |
| aptrapservice-5dd89657fc-wvfz7 | 1/1 | Running | Θ | 36m |
| apupgrade-6b8b5768d7-rzdn9 | 1/1 | Running | Θ | 35m |
| apwillservice-579f9f665b-q6j5d | 1/1 | Running | 0 | 36m |
| ca-bridge-8464965875-p9gff | 1/1 | Running | 0 | 35m |
| clientdetail-677f4b87f9-w6mmc | 1/1 | Running | | 35m |
| clientevent-b7d96746f-9bsgn | 1/1 | Running | | 35m |
| clientname-6897d6c678-hwjvk | 1/1 | Running | 0 | 35m |
| clientstatistics-6bb45d6cc5-9f9mr | 1/1 | Running | Θ | 35m |
| clienttraffic-66f8774fd9-pp577 | 1/1 | Running | Θ | 35m |
| config-5fb9595bbf-2k5zg | 1/1 | Running | Θ | 35m |
| cspadmin-77d8cb549b-rpk28 | 1/1 | Running | Θ | 38m |
| cspadmin-call-854f74484-hrwi6 | 1/1 | Running | Θ | 35m |
| cspadmin-portal-7cd55b4d75-ig2lf | 1/1 | Running | Θ | 38m |
| cspadmin-report-86d8bc9f96-fvqbw | 1/1 | Running | Θ | 38m |
| datasynchronization-7bcd4c897c=n8csp | 1/1 | Running | Θ | 35m |
| dispatch-75bffcf5c5-w7z42 | 1/1 | Running | 0 | 35m |
| dsp-ad-resource-f5cd6964b-t4cwt | 1/1 | Running | õ | 1.8m |
| dsn-ad-resource-strategy-7d998d4857-t4htt | 1/1 | Running | 0 | 1.8m |
| dsp-anigateway-6dfc45f7ch-4cdpp | 1/1 | Running | 0 | 1.8m |
| dsp-bidding-56846544c-gr7s4 | 1/1 | Running | õ | 1.8m |
| dsp-report-5/65f9dd67-bmpwk | 1/1 | Running | ē. | 1.8m |
| dsp usormanagor 7d90c7b707 zimev | 1/1 | Running | 0 | 10m |
| ospinforrovidor 07d4c707c pg5p2 | 1/1 | Running | 0 | 25m |
| esprintoprovider-9704c797c-ng3nz | 1/1 | Running | 0 | 26m |
| espversion-0093083938-mitwi | 1/1 | Running | 0 | 10m |
| eureka-SuSUTSU/ur-/uzcr | 1/1 | Running | 0 | 10III 26m |
| bamarcada EdEEEEfood lakel | 1/1 | Running | 0 | 3011 |
| hamoorvice 77efbebfE0 7nfve | 1/1 | Running | 0 | 3511 |
| infoctotictics 7b0cb4b4dd tfufn | 1/1 | Running | 0 | 3511 |
| infostatistics - /b8cb4b4dd-tivip | 1/1 | Running | 0 | 35111 |
| licence 70fdE70fbg c0Ege | 1/1 | Running | 0 | 35111 |
| License-/9Td5/9Tb8-C95g6 | 1/1 | Running | 0 | 36m |
| mail-manager-58959748b6-nm5n8 | 1/1 | Running | 0 | 35m |
| message-7960T08668-6Lxzv | 1/1 | Running | 0 | 35m |
| nginx-78d9/8b/tt-8skx4 | 1/1 | Running | 0 | 35m |
| portal-69f6f6ccc6-s9zdt | 1/1 | Running | U | 35m |
| portal-esp-584d898b85-vdbx5 | 1/1 | Running | 0 | 35m |
| reportcspadminservice-6c6d59tbcb-2npvd | 1/1 | Running | 0 | 36m |
| rest-esp-c749978fc-tpwgt | 1/1 | Running | 0 | 35m |
| rtservice-7t5dd89787-pkncx | 1/1 | Running | 0 | 36m |
| rtb-bidding-6fcd557b5d-wzbth | 1/1 | Running | Θ | 18m |
| scene-69d88cfb8b-ms78z | 1/1 | Running | Θ | 35m |
| systemproperty-65f78d778d-pwrfg | 1/1 | Running | | 35m |
| terminalidentity-7fc957f5bb-rmbrs | 1/1 | Running | | 18m |
| terminalinfogather-669bb6fc94-c785p | 1/1 | Running | | 35m |
| toolservice-65d9d7d9cd-xxnsr | 1/1 | Running | | 35m |
| trapdispatch-6cf7c4bc4c-hfwnf | 1/1 | Running | | 35m |
| upgradedispatch-cfc6d4f49-skvrc | 1/1 | Running | | 35m |
| userservice-7c764fc8f8-f6k7d | 1/1 | Running | Θ | 35m |
| wechat-6f659c58cf-2wgvb | 1/1 | Running | 0 | 35m |
| widsapgather-57d7486894-7b99s | 1/1 | Running | Θ | 35m |
| widsclientgather-5cdbf77f76-sgbt4 | 1/1 | Running | Θ | 35m |
| widsservice-675cc869bd-ws659 | 1/1 | Running | Θ | 36m |
| willdispatch-8456c57b84-f7hw4 | 1/1 | Running | Θ | 35m |
| wiredclientgather-5c4d8b6b8b-m5lkt | 1/1 | Running | 0 | 35m |
| wiredclients-568d759fd8-n77f2 | 1/1 | Bunning | 0 | 35m |
| root@ubuntu:~# | 1/1 | Renning | | 0.0111 |
| roo ceabanta | | | | |

Figure 4-3-3

4.4 Modify DAC Server IP

The stand-alone server IP can be modified, not support cluster mode. This script can be executed after the normal installation of the version.

- 1) Modify server IP, and the IP configured in the /etc/network/interfaces, save and to restart the server.
- 2) After the Mongo database is restarted, check if the server IP has been modified.
- 3) Execute deployment-all.sh script, follow the steps in Figure 4-4-1.
- 4) If no error is reported during execution, docker ps -a | grep exit does not exit the service and the page access is normal, means the modification is successful. To restart the server if there is any error.



Figure 4-4-1

4.5 Configure DAC Public IP

Execute following steps to modify DAC public IP after normal installation.

- 1) To confirm all services is running normally, and public IP is correct.
- 2) Execute deployment-all.sh script, follow the steps in Figure 4-5-1.
- 3) If no error is reported during execution, docker ps -a | grep exit does not exit the service, means the modification is successful.

| root@ubuntu:~/data/package-Taichu# ./deployment-all.sh | | |
|--|-----------------------------------|--|
| 1. Install/Upgrade | | |
| 2. Uninstall Input 4 config Nat Netw | Input 4 config Nat Network | |
| 3. Config New IP | | |
| 4. Config Nat Network 🛛 🖊 🖊 | | |
| 5. Backup Database | Public IP | |
| Please input your Choice:4 🧹 🛛 🔪 🗾 | | |
| You Will Config NAT Network for Plateform! | | |
| Please input your Public IP:182.150.57.140 🦯 | Input "v" use default 443 "n" use | |
| IP 182.150.57.140 format correct! 👝 | input y use deladit 445, il use | |
| Can you use public network port 443?(y/n)n 🦰 | you defind port | |
| If not,please input your public network port which you | can use:4433 | |
| | | |

Figure 4-5-1

4.6 Start/Stop Service

Enter "kubectl apply/delete -f XXX/XX.yaml", to start or stop some services.

All yaml files are stored in /opt/micro-esp-playbook、/etc/csp/advertisement/advertisement-yaml/、

/etc/csp/csp-report/、/etc/csp/Portal/、/etc/csp/docker-cspadmin/、/etc/csp/csp-statistic/、

/etc/csp/csp-email/、/etc/csp/aiops-itt/.

4.7 Get Device Code

Device code is the fingerprint of the DAC server, which is required to provide to your supplier for offline license application. To get DAC server device code in following page, the supplier will generate license code based on this device code.

Refer DAC User Manual to active the license code.

| ne > System Configuration | | |
|---------------------------------------|---|--|
| License SMTP(Email) Configuration | System Log | |
| License Activation License Management | License Record Device Code | |
| | pENIpcQ8HbRa5up8NXVieZTvfLBfT3CPOjVZEh5-kdFpQevMVpp0C9Jw3ktOdrS | |
| | Сору | |

Figure 4-7-1

4.8 Login DAC

Open the computer browser and visit http://XX.XX.XX.XX:8808 (xx.xx.xx.xx is the virtual IP of the cluster mode) , log in to the DAC as shown in Figure 4-8-1.

Default Account Name is admin, Password is Admin@01.

| HIRSCHMANN IT DAC Web | | | ſ |
|-----------------------|------------------|-------------------------|---|
| | | | |
| | | | |
| | | | _ |
| | | Welcome | |
| | Account Name | | |
| | | | |
| | Auth Code | 111627-0 | |
| | | Login | |
| | Forget password? | Create account | t |
| | | | |
| | | | |
| | | Current version:1.1.5.8 | |

Figure 4-8-1

4.9 Uninstallation

- 1) Enter unzip directory: cd /tmp/x.x.x.xxxx/data/package-BLD.
- 2) Run script: sudo ./deployment-all.sh.

| root@ubuntu:~/data/package=ratchu# ./deproyment=arr.sh | |
|--|--|
| 1. Install/Upgrade | |
| 3. Config New IP | |
| 4. Config Nat Network | |
| 5. Backup Database | |
| You Will Uninstall Plateform! | |



4.10 Data Backup and Recovery

1) Data backup

Execute deployment-all.sh script, choice 5 to backup database and default directory is

/root/databackup/.





2) Data recovery

Execute the script datarestore.sh for data recovery, bash /etc/csp/datarestore.sh parameter 1.

Note: Parameter 1 is the directory during data backup. Example: bash / etc / csp / datarestore sh /etc/csp/databackup/data-2019-12-11_14:32.

4.11 DAC Upgrade

- 1) Refer to 3.4, to download target DAC version.
- 2) Backup data, as show in Figure 4-10-1.
- 3) Upload installation package to virtual machine.
- 4) Refer to 4.1 or 4.2, to finish installation.
- 5) Data recovery.

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5 Trouble Shooting

5.1 Subnet IP Conflict

1) If 172.17.0.1 subnet IP had confiict after installation.

Enter directory: cd /tmp/x.x.x.xxx/data/package-BLD/csp and run ./ipconflictresolve.sh

Select 1 to solve this problem as shown in Figure 5-1-1.

2) If 172.18.0.1 subnet IP had confiict after installation.

Enter directory: cd /tmp/x.x.x.xxxx/data/package-BLD/csp and run ./ipconflictresolve.sh

Select 2 to solve this problem as shown in Figure 5-1-1.

Then reinstall DAC to use new subnet IP address.

```
root@ubuntu:/tmp/1.1.5.2/data/package-BLD/csp# ./ipconflictresolve.sh
Before use this script to solve 172.17 or 172.18 subnet conflict,make sure docker service is already installed
1) 172.17 subnet conflict
2) 172.18 subnet conflict
Please choose which subnet conflict(1/2):
```

Figure 5-1-1

5.2 Installation Failure

The installation is restricted by the server environment. Occasionally. If the first installation fails, can run the installation command again after the first installation.

5.3 Service Failure

If the service cannot be started after installation, please check whether the following ports are occupied, and whether the server has insufficient resources, if the disk is full.

| Port | TCP/UDP | Service | Function |
|-------------|---------|------------|-----------------------------|
| 20101 | ТСР | mongo1 | Database port |
| 8883/8888 | ТСР | vernemq | AP connection port |
| 15672/61613 | ТСР | rabbitmq | Message queuing port |
| 5432 | ТСР | postgres | Database port |
| 1812 | UDP | freeradius | Authentication service port |
| 1813 | UDP | freeradius | Authentication service port |
| 1814 | UDP | freeradius | Authentication service port |
| 50051 | ТСР | freeradius | Authentication service port |
| 443 | ТСР | nginx | Web page port |
| 8808 | ТСР | nginx | Web page port |
| 8060 | ТСР | nginx | Web page port |
| 8081 | ТСР | nginx | Web page port |
| 8099 | ТСР | nginx | Web page port |

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| 8443 | ТСР | nginx | Web page port |
|------|-----|------------|-----------------------------|
| 8282 | ТСР | hamqrcode | QR service port |
| 2000 | UDP | authbroker | Authentication service port |

5.4 Cannot Access the Page

After restarting the virtual machine, the page cannot be accessed sometimes. Firstly, to check whether the service status is Up or Running. Then waiting until all services are normal, the page can be accessed.