Advanced Services

思科会议管理助手 V2.1 ——安装手册

Ver 1.1

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目录

目录 **3**

文档信息 **4**

审阅记录 4

发布历史 4

文档签收记录 **5**

前言 **6**

文档目的 6

适用人员 6

内容范围 6

假设和告诫 6

参考资料 6

安装概述 **7**

系统介绍 7

硬件需求 7

系统需求 7

系统安装 8

网络配置 12

时间服务器（NTP）配置 13

NGINX 配置 15

安装测试 **16**

登陆验证 16

常见问题 **17**

CMMA2.1 注意事项 **18**

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前言

文档目的

本手册主要介绍思科会议管理助手系统的安装和硬件的基本需求，目的在于帮助客户合理而快速的进行部署安装管理系统。

思科会议管理助手系统是基于思科 Cisco Meeting Server（CMS）的会议管理控制系统，目的在于简化会议使用者和会议管理员对视频会议的组织，同时实现对会议简洁，高效，灵活的管理

适用人员

思科会议管理助手视频项目实施人员和管理人员

内容范围

思科会议管理助手安装与部署

假设和告诫

此文档为思科会议管理助手的安装手册，不允许适用于非思科产品和项目上。

参考资料

1. Cisco Meeting Server Release 2.2 API Reference Guide

安装概述

系统介绍

思科会议管理助手是基于虚拟化平台的系统部署，需要安装在 VMWare ESXi 中进行管理。文件类型为.ova（vsphere 支持文件类型）。

硬件需求

主机信息	推荐配置
CPU	4 核心 2.6Ghz 以上
内存	16GB 以上
硬盘	100G 存储空间（厚置备）
网络	CMMA 需要部署在 CMS 及 CUCM 的同一子网环境下

注意

CPU 及内存推荐使用资源预留以保障系统运行过程中的稳定性。

硬盘格式不推荐使用精简配置

系统需求

系统信息	推荐版本
ESXi	支持 ESXi 5.5 及其以上
CUCM	支持 CUCM 10.5，11.0，11.5
CMS	支持 CMS 2.2
NTP	需要可用的 NTP 进行时间同步
浏览器	推荐使用 Chrome， Firefox 进行系统管理，IE11 浏览器也可以使用，但是有些网页组件会显示不正常，并且有响应速度缓慢的现象。

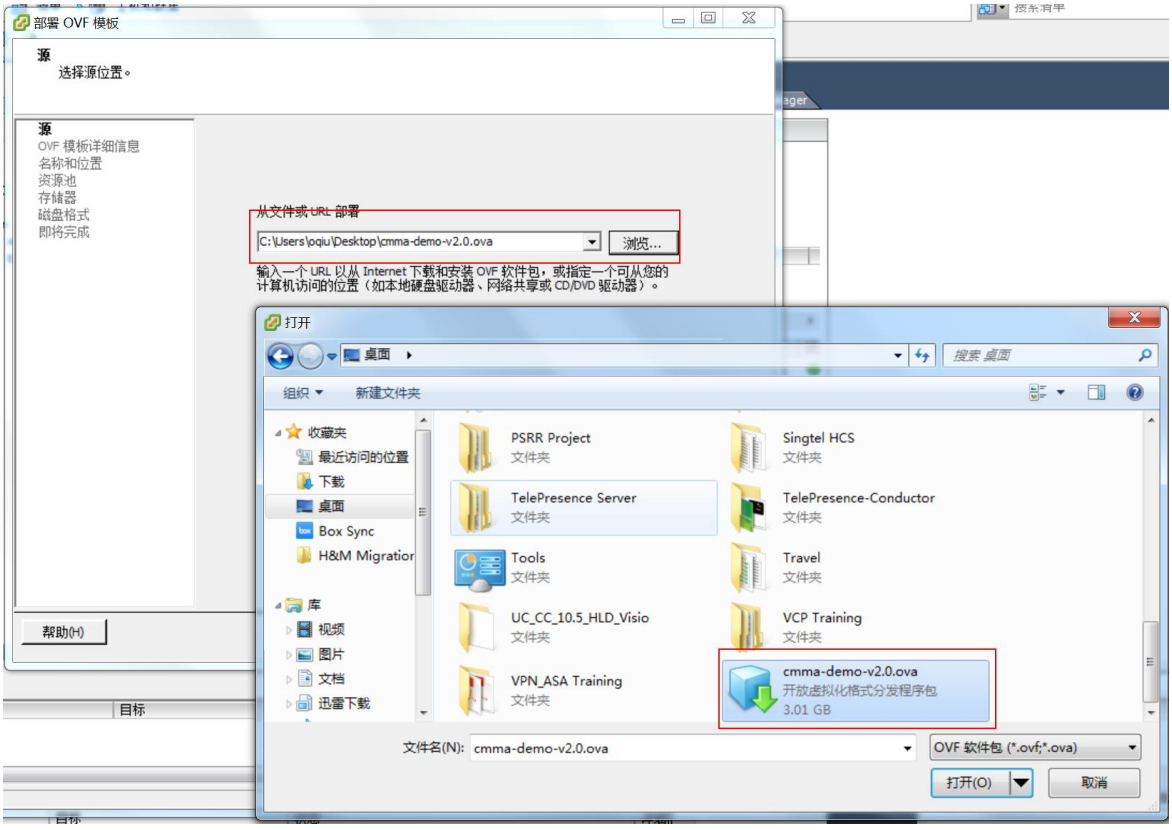
注意

思科会议管理助手一定需要使用 CMS/CUCM 相同的 NTP 服务器

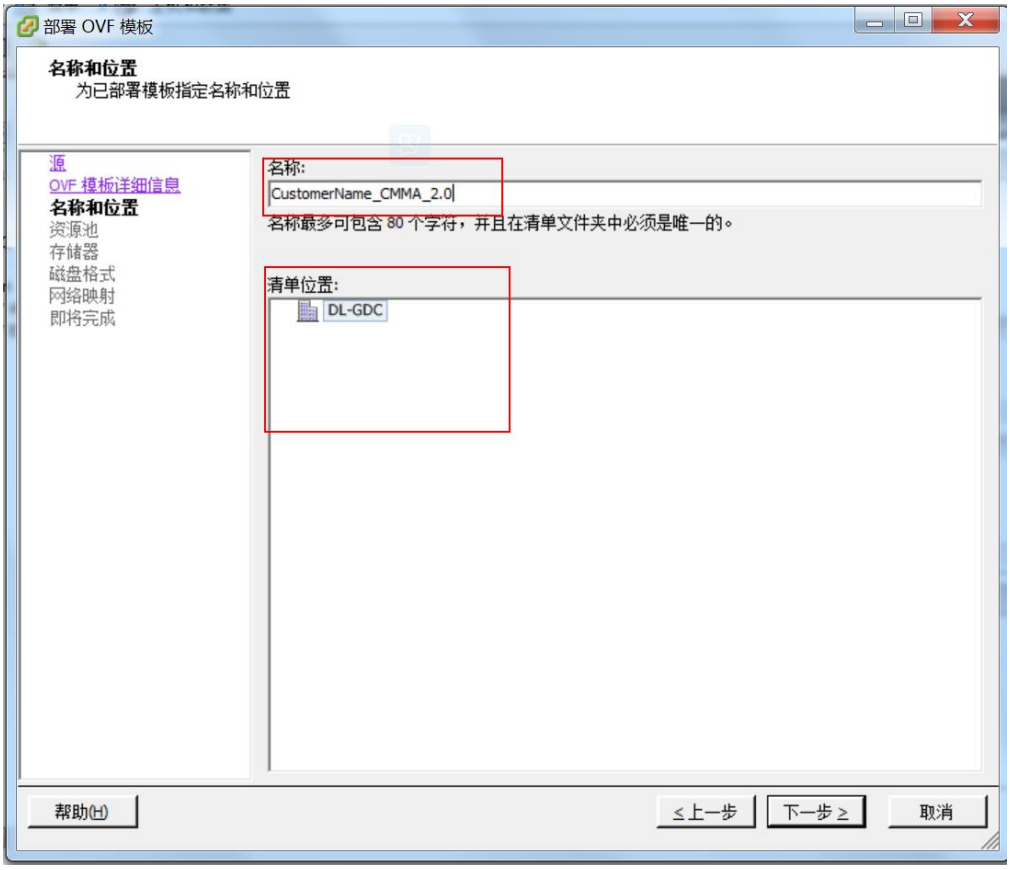
系统安装

1. 在 ESXi 中部署 OVA 模板。选择文件 -> 部署 OVF 模板。

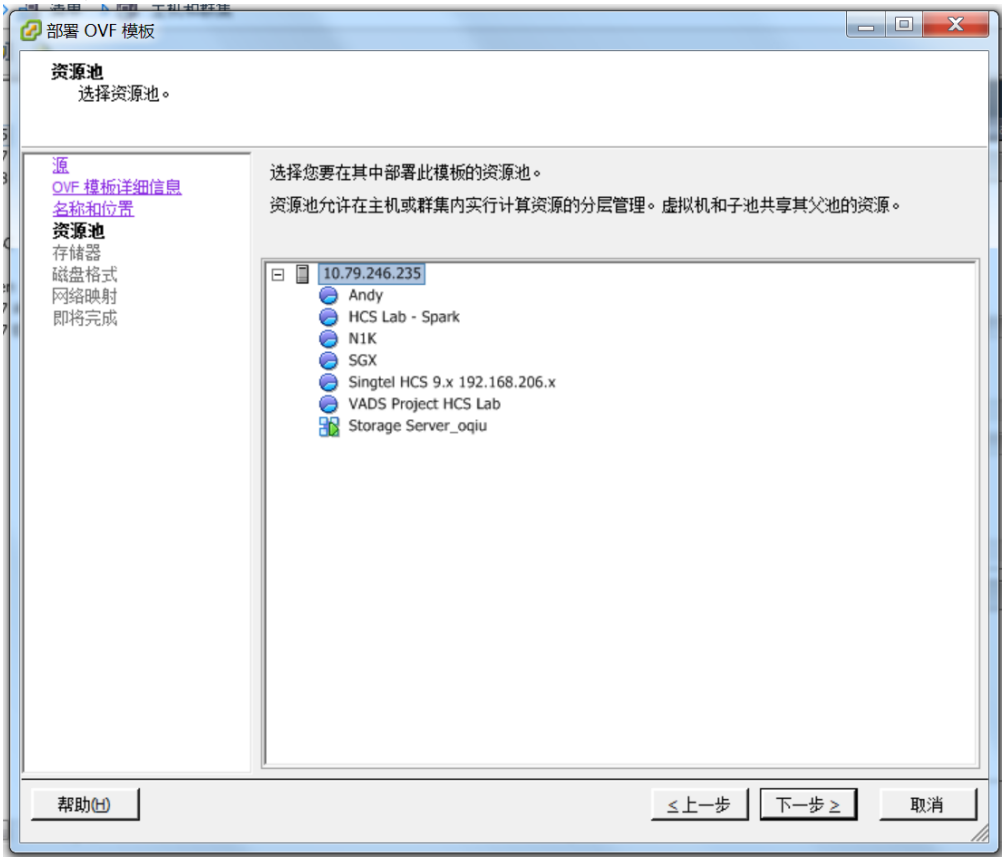
2. 选择思科会议管理助手.ova 安装文件。



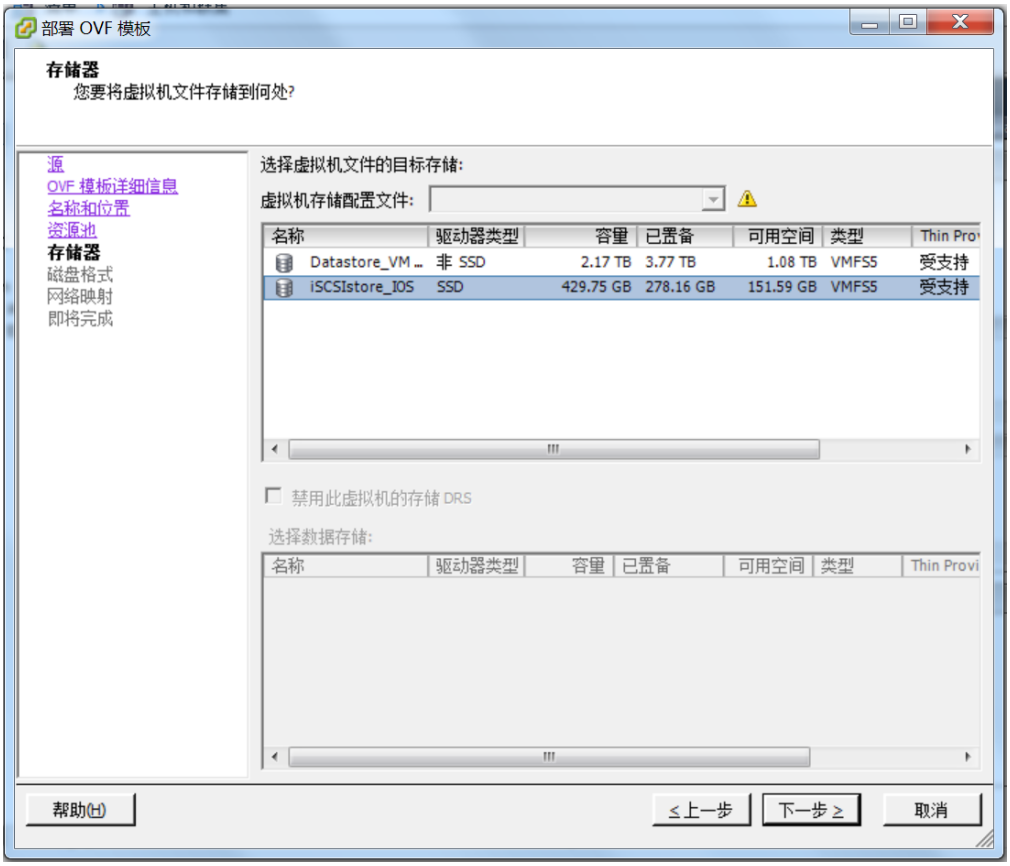
3. 确认模板信息后，输入您的虚拟机名称及选择安装的位置。



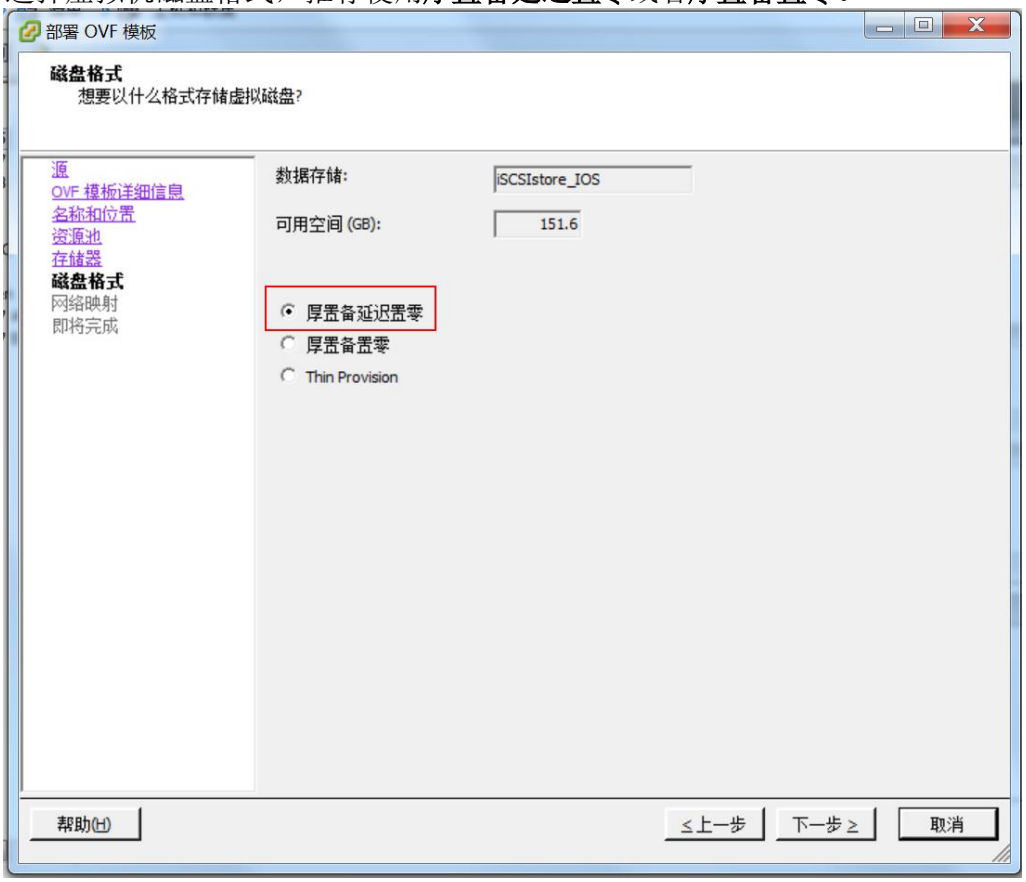
4. 选择将安装的 ESXi 中的资源池的位置。



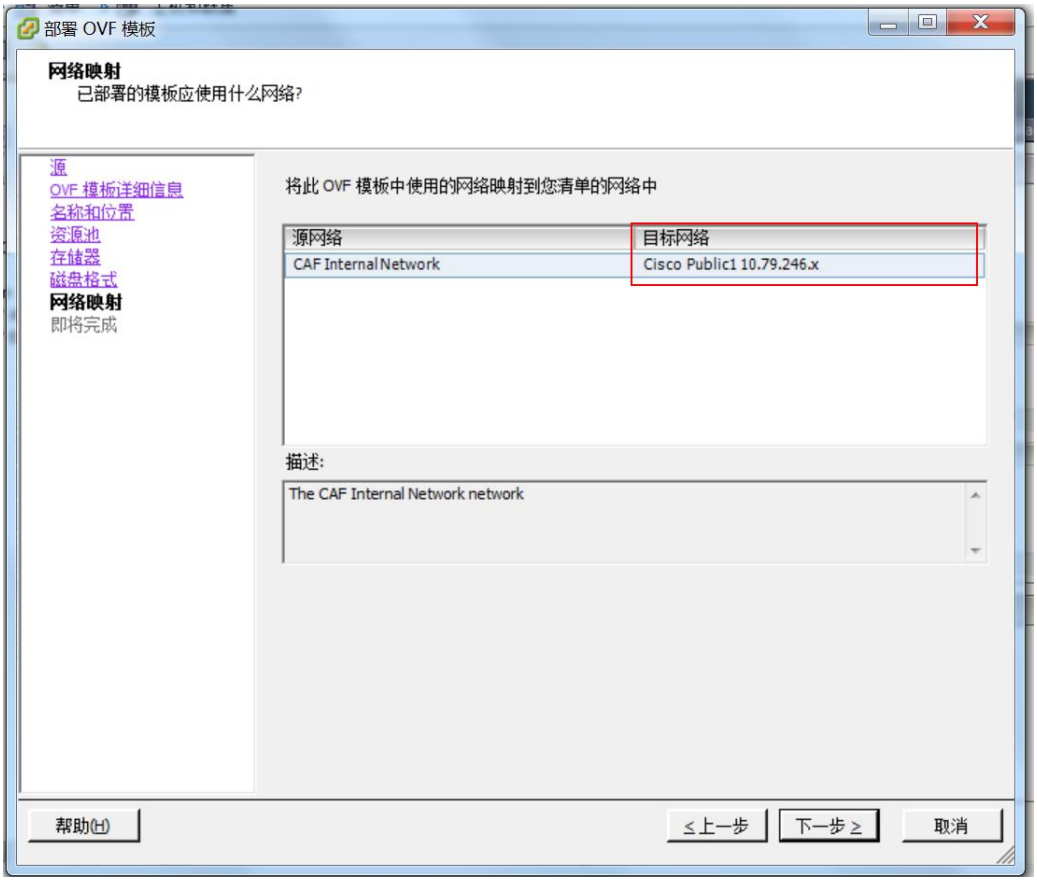
5. 选择将安装的虚拟机磁盘所在位置。



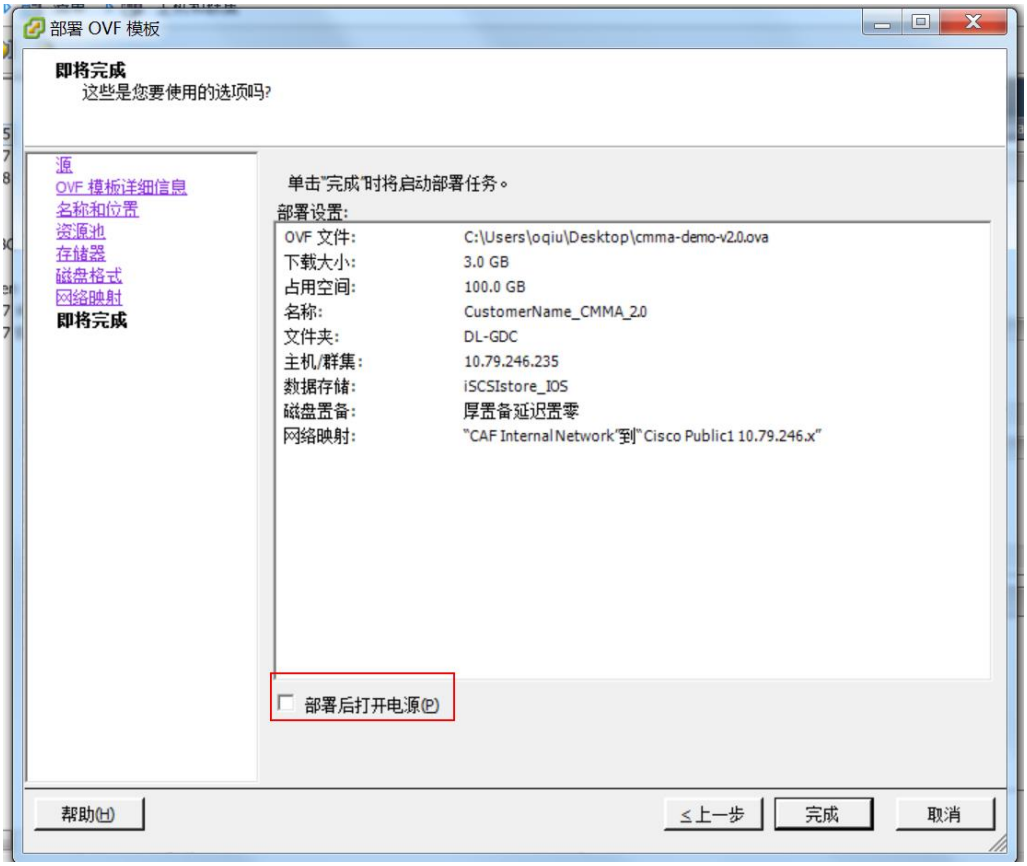
6. 选择虚拟机磁盘格式，推荐使用**厚置备延迟置零**或者**厚置备置零**。



7. 选择目前网络，确认与思科会议系统所在同一网络。



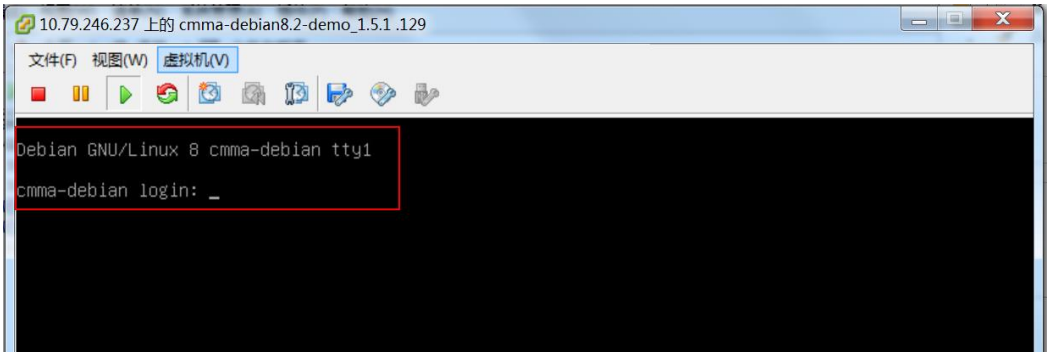
8. 确认安装信息及选择是否部署后进行开机。



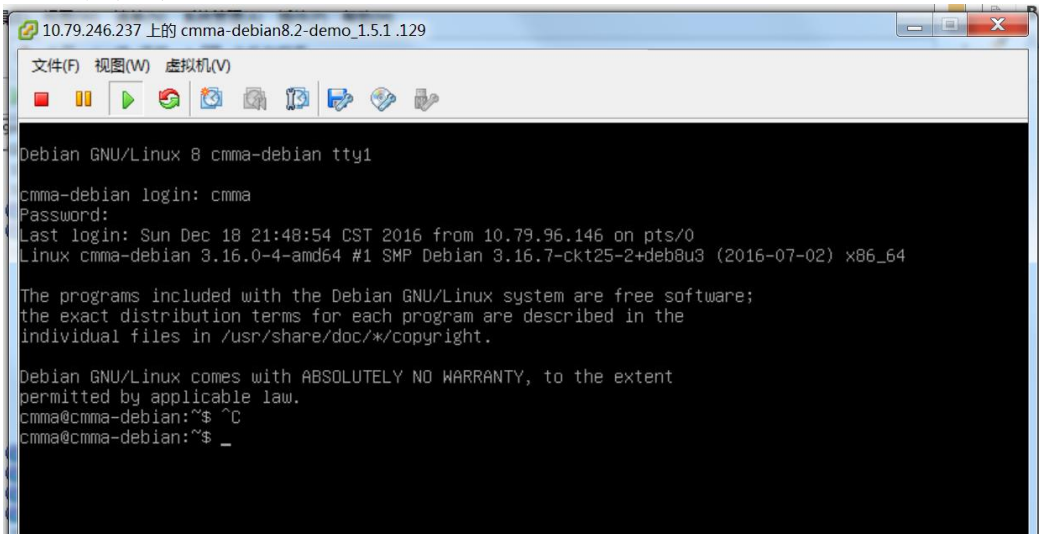
网络配置

1. 安装完成后，通过 ESXi 启动会议管理助手的虚拟机远程控制台。

2. 打开控制台后确认是否已经成功加载系统。

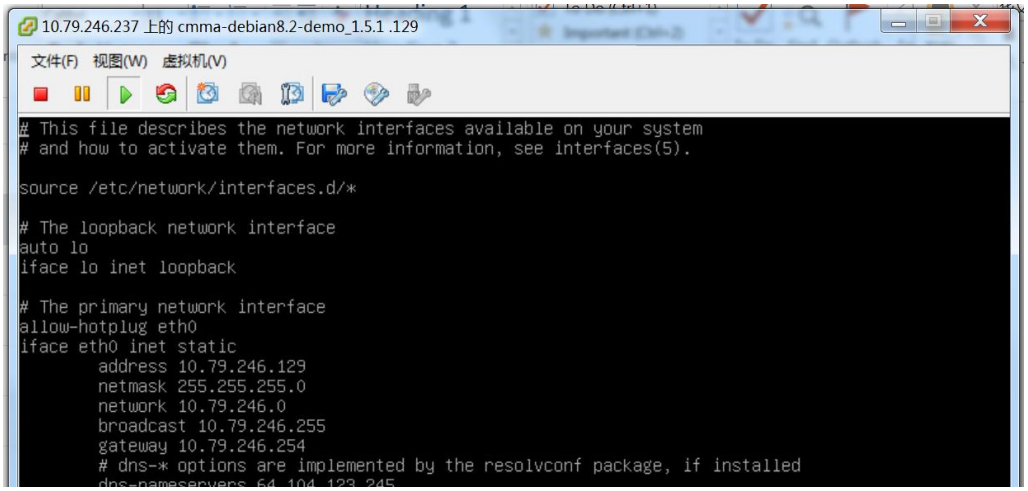


3. 输入用户名及密码进行登录系统。
（思科会议管理助手初始登录用户名及密码为：**cmma/cisco123**）



4. 进入后切换 root 用户进行系统配置修改。输入“**su -**”
（思科会议管理助手 root 密码为：**cisco123**）

5. 更改网络配置。通过命令行模式输入： ***vi /etc/network/interfaces***



6. 初始化网络信息。进入配置文件后（如上图），通过输入键盘中的“**I**”（插入）进行修改网络信息。

---

iface eth0 inet static

address **xx.xx.xx.xx** **管理 IP 地址**

netmask **255.255.255.255** **管理地址掩码**

network **xx.xx.xx.xx** **管理 IP 网段**

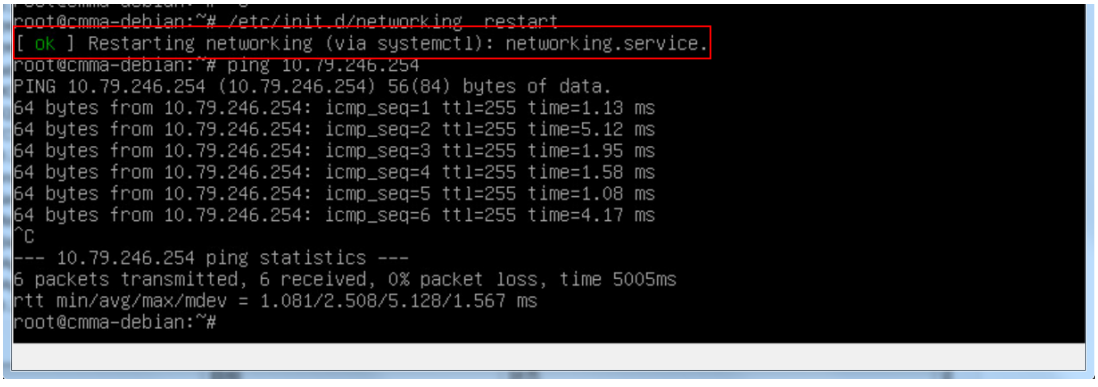
broadcast **xx.xx.xx.xx** **管理 IP 广播地址**

gateway **xx.xx.xx.xx** **管理 IP 网关地址**

dns-nameservers **xx.xx.xx.xx** **管理 IP DNS （可选）**

修改完成后，通过输入键盘中的“**ESC**”后，输入“**: wq!** ”进行保存配置。

7. 网络配置完成后，输入“***/etc/init.d/networking restart***”进行重启网卡。并通过 Ping 命令尝试测试与网关的连通性。



时间服务器（NTP）配置

1. 利用 Ping 命令在控制台测试系统与时间服务器的连通性。
2. 确认系统与 NTP 可正常通信后，进行修改 NTP 配置。输入“**vi /etc/ntp.conf**”进入 NTP 配置文件。

```
# /etc/ntp.conf, configuration for ntpd; see ntp.conf(5) for help

driftfile /var/lib/ntp/ntp.drift


# Enable this if you want statistics to be logged.
#statsdir /var/log/ntpstats/

statistics loopstats peerstats clockstats
filegen loopstats file loopstats type day enable
filegen peerstats file peerstats type day enable
filegen clockstats file clockstats type day enable


# You do need to talk to an NTP server or two (or three).
#server ntp.your-provider.example

# pool.ntp.org maps to about 1000 low-stratum NTP servers.  Your server will
# pick a different set every time it starts up.  Please consider joining the
# pool: <http://www.pool.ntp.org/join.html>
#server 0.debian.pool.ntp.org iburst
#server 1.debian.pool.ntp.org iburst
#server 2.debian.pool.ntp.org iburst
#server 3.debian.pool.ntp.org iburst

server 1.ntp.es1.cisco.com iburst
server 2.ntp.es1.cisco.com iburst

# Access control configuration; see /usr/share/doc/ntp-doc/html/accopt.html for
# details.  The web page <http://support.ntp.org/bin/view/Support/AccessRestrictions>
# might also be helpful.
#
# Note that "restrict" applies to both servers and clients, so a configuration
# that might be intended to block requests from certain clients could also end
# up blocking replies from your own upstream servers.

"/etc/ntp.conf" 57L, 2060C                                    1,55          Top
```

3. 通过输入键盘中的“**I**”（插入）进行修改配置文件信息。

---

server 1.ntp.es1.cisco.com iburst -> 系统首要 NTP 地址或者域名
server 2.ntp.es1.cisco.com iburst -> 系统次要 NTP 地址或者域名
例如：server 1.**10.79.246.13** iburst
server 2.**ntp.cisco.com** iburst

注意

如有使用域名配置 NTP，请确保您在网络配置中输入正确的 DNS 解析地址

4. 修改完成后，进行重启 NTP 服务。输入“/etc/init.d/ntp restart”

```
root@cmma-debian:~# /etc/init.d/ntp restart
 [ ok ] Restarting ntp (via systemctl): ntp.service.
root@cmma-debian:~#
```

Nginx 配置

1. 修改 Nginx 配置文件。输入“**vim /etc/nginx/mime.types**”进入 Nginx 配置文件，通过输入键盘中的“**i**”（插入）进行修改配置文件信息。
   在第 76 行添加 **audio/wav wav;**
   修改完成后，通过输入键盘中的“**ESC**”后，输入“**: wq!** ”进行保存配置。

```
61      application/octet-stream                bin exe dll;
62      application/octet-stream                deb;
63      application/octet-stream                dmg;
64      application/octet-stream                iso img;
65      application/octet-stream                msi msp msm;
66
67      application/vnd.openxmlformats-officedocument.wordprocessingml.document    docx;
68      application/vnd.openxmlformats-officedocument.spreadsheetml.sheet          xlsx;
69      application/vnd.openxmlformats-officedocument.presentationml.presentation  pptx;
70
71      audio/midi                              mid midi kar;
72      audio/mpeg                              mp3;
73      audio/ogg                               ogg;
74      audio/x-m4a                             m4a;
75      audio/x-realaudio                       ra;
76      audio/wav                               wav;
77
78      video/3gpp                              3gpp 3gp;
79      video/mp2t                              ts;
80      video/mp4                               mp4;
81      video/mpeg                              mpeg mpg;
```

2. 重启 Nginx 服务。输入“**systemctl restart nginx**”重启 Nginx 服务。使用命令“**systemctl status nginx**”查看服务是否启动。

```
root@cmma2:~# systemctl restart nginx
root@cmma2:~# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled)
   Active: active (running) since Tue 2017-06-06 13:24:14 CST; 7s ago
  Process: 10426 ExecStop=/sbin/start-stop-daemon --quiet --stop --retry QUIT/5 --pidfile /run/nginx.pid (code=exited, status=0/SUCCESS)
  Process: 10433 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Process: 10429 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 10434 (nginx)
   CGroup: /system.slice/nginx.service
           ├─10434 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
           ├─10435 nginx: worker process
           ├─10436 nginx: worker process
           ├─10437 nginx: worker process
           └─10438 nginx: worker process

Jun 06 13:24:14 cmma2 systemd[1]: Started A high performance web server and a reverse proxy server.
```

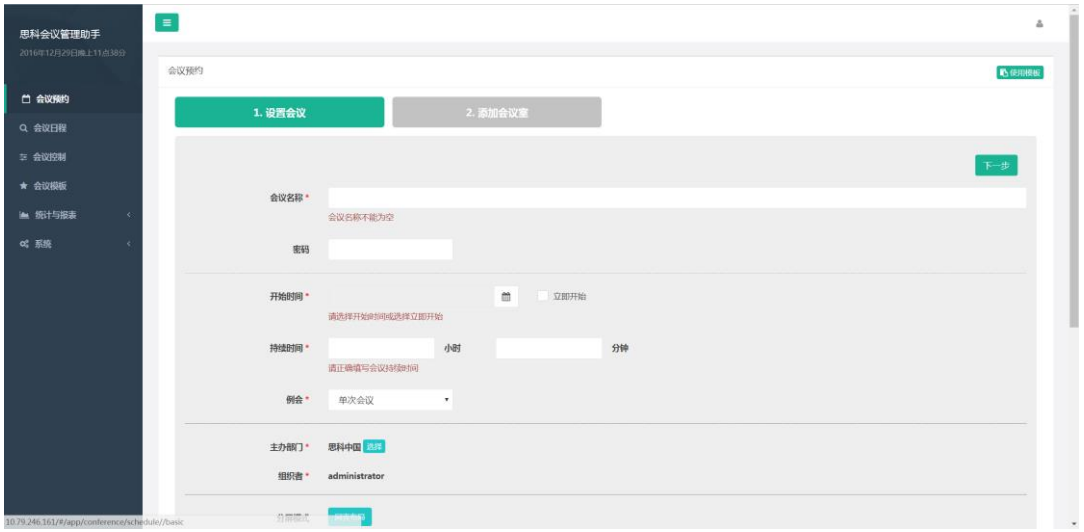
安装测试

登陆验证

完成所有配置后，在同一个局域网通过浏览器输入会议管理助手系统管理 IP：

例如 http://10.79.246.129 或者通过域名进行访问。

系统默认管理员账号密码为：“***admin/123456***”



成功安装完成后，请参照**“思科会议管理助手管理员手册”**进行系统及功能配置。

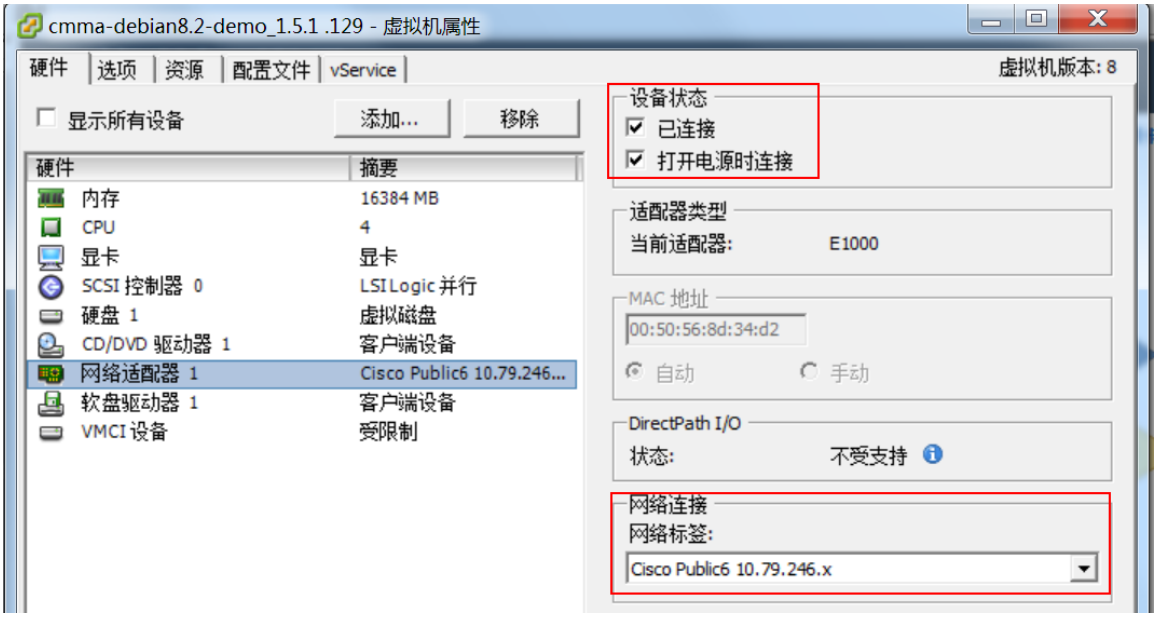
常见问题

安装问题

1) 无法进行网络配置文件修改：需要从 cmma 切换为 root 管理员用户进行修改。
2) 安装部署时，进度条缓冲缓慢：安装包的大小为 3GB 左右，上传速率取决于您本地网络带宽。请确认您的网络带宽。

网络问题

1) 网络配置完成后，无法 Ping 通该网络网关：请确认在 ESXi 中虚拟机是否已连接虚拟网卡及目标网络是否选择正确。



2) 网络配置完成后，可以与网关进行通信。但是无法通过浏览器打开管理页面：请确认您的网络防火墙设置，是否开放了 HTTP 80 端口，或者存在端口占用。

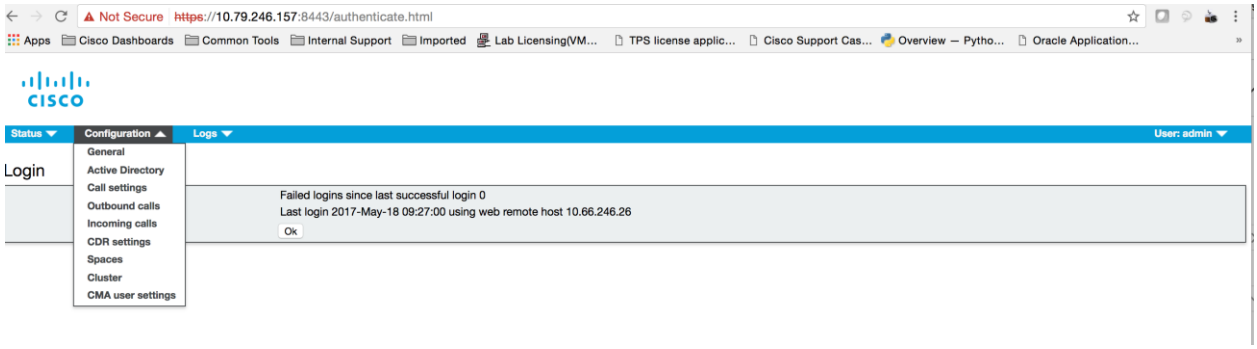
NTP 连接超时

1) NTP 服务连接超时：请确认您的网络与 NTP 服务器的连通性，可尝试用 Ping 命令进行测试；若 NTP 服务器为域名解析，则检查网络配置中的 DNS 配置是否正确，并且使用 Ping 命令确认您的网络与 DNS 服务器的连通性。

CMMA2.1 注意事项

CMMA2.1 安装后需要在 CMS 服务器上对 CDR 进行配置。

登录对应的 CMS 服务器，进入“configuration”,点击“CDR settings”

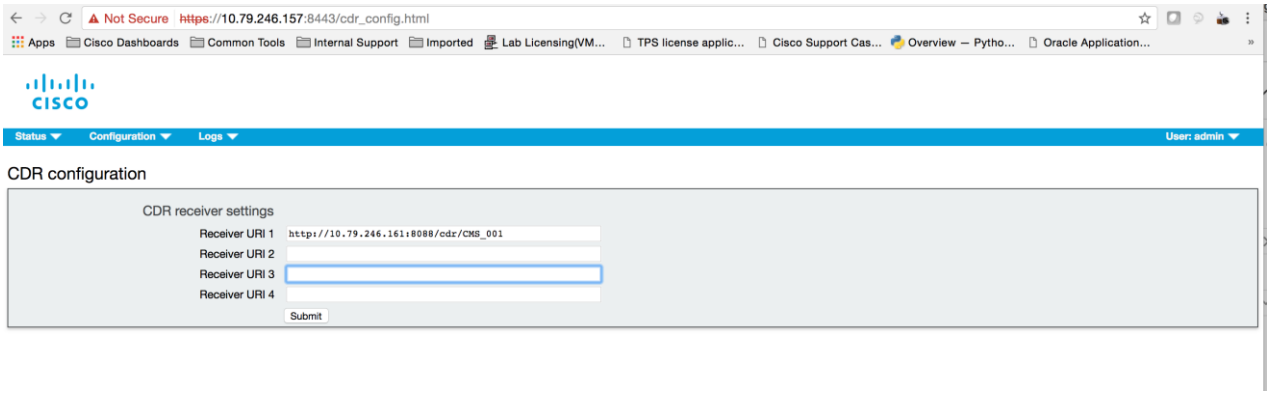


进入页面后输入 http://<CMMA2.1 IP 地址>:8088/cdr/<CMMA 中配置的该 CMS 名称>

例如：http://10.79.246.161:8088/cdr/CMS_001

注意

需要在所有 CMMA 管理的 CMS 上完成 CDR 配置，否则，会议显示和会议控制功能会有问题。



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