# 安盟多因素身份认证系统 V9.0 基于 openCloudOS 操作系统服务器 安装说明



安盟电子信息安全有限责任公司

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版本管理

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1.02	服务器模式采用默认的服务器带图形模式	陈俊	2023/03/27
1.03	增加安盟服务器安装	陈俊	2023/03/27

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## 1 概述

安盟多因素身份认证系统,可以安装在操作系统为 openCloudOS 类型的服务器上。 openCloudOS 为国产开源操作系统(中兴),分别有两种结构一种是 x86 的传统结构,一种 是 arm 类型机器结构。安盟认证系统对两者完全兼容。本文以 X86 机型进行说明。

## 2 基本服务器安装

### 2.1 资源需求

基本配置:

硬盘 100G 内存 8G

CPU 2 核 2 进程

网卡 2 块

语言 英文

与北京时间同步

如果是虚拟机安装,可以直接选用 CentOS 类型 64bit 模安装。

1

## 2.2 基本设置



WELCOME T	O OPENCLOUD	OS 8.
What language we	ould you like to use du	uring the installation process?
English	Engusn Z	English (United Kingdom)
Airikaans	Ambaric	English (India)
A-70.9	Arabic	English (Australia)
অসমীয়া	Ascamasa	English (Canada)
Asturianu	Asturian	English (Denmark)
Беларуская	Belarusian	English (Ireland) English (New Zealand)
Български	Bulgarian	English (Nigeria)
বাংলা	Bangla	English (Hong Kong SAR China)
1	 1 1	• <u></u>
	ন্দ্র	

## 2.2.1 设置日期时间





## 2.2.2 设置服务器角色



SOFTWARE SELECTION	OPENCLOUDOS 8 INSTALLATION Bus Help!
<ul> <li>Server with GUI         <ul> <li>An integrated, easy-to-manage server with a graphical interface.</li> <li>Server</li></ul></li></ul>	Additional software for Selected Environment           Network Servers           These packages include network-based servers such as DHCP, Kerberos and NIS.           Performance Tools           Tools for diagnosing system and application-level performance problems.           Remote Desktop Clients           Remote Management for Linux Remote management interface for OpenCloudOS.           Virtualization Client Clients for installing and managing virtualization instances.           Virtualization Hypervisor Smallest possible virtualization host installation.           Virtualization Tools Tools for offline virtual image management.           Basic Web Server These tools allow you to run a Web server on the system.           Legacy UNIX Compatibility Compatibility programs for migration from or working with legacy UNIX environments.



注意:选择默认,让操作系统具备基本的服务管理功能。

### 2.2.3 设置默认硬盘



INSTALLATION DESTINATION	OPENCLOUDOS 8 INSTALLATION
Device Selection	
Select the device(s) you'd like to install to. They will be l "Begin Installation" button.	eft untouched until you click on the main menu's
Local Standard Disks	
20 GIB	
VMware, VMware Virtual S	
sda / 20 GiB free	
	Disks left unselected here will not be touched.
Specialized & Network Disks	
Add a disk	
	Disks left unselected here will not be touched.
Storage Configuration	
Automatic     Custom	
I would like to make additional space available.	
Full disk summary and boot loader	1 disk selected; 20 GiB capacity; 20 GiB free Refresh

默认设置即可。

## 2.2.4 网卡设置设置

🖉 OpenCloudO5	INSTALLATION SUMMARY	OPENC B us	CLOUDOS 8 INSTALLATION
	LOCALIZATION	SOFTWARE	SYSTEM
	English (US)	Installation Source     Local media	Installation Destir Automatic partitioning sele
	Language Support     English (United States)	Software Selection	KDUMP Kdump is enabled
	S Time & Date Asia/Shanghai timezone		Network & Host N Not connected
	USER SETTINGS		Security Policy No content found
	Root Password Root account is disabled.		
		Quit	Begin Installation
		We won't touch your dis	ks until you click 'Begin Installation'.
	$\underline{\wedge}$ Please complete items marked with	this icon before continuing to the next	t step.

NETWORK & HOST NAME	OPENCLOUDOS 8 INSTALLATION
Ethernet (ens33) Intel Corporation 82545EM Gigabit Ethernet Controller (	Ethernet (ens33) Connected Hardware Address 00:0C:29:86:9D:06 Speed 1000 Mb/s IP Address 192.168.67.134/24 Default Route 192.168.67.2 DNS 192.168.67.2
+ - Host Name: localhost.localdomain	Configure Apply Current host name: localhost.localdomain

注意,如果有预先规划的地址则直接配置,如果不知道可以随后配置,但必须确认网卡可以使用。

## 2.2.5 设置 root 密码

🔷 OpenCloudO5	INSTALLATION SUMMARY		OPENCLOUDOS	5 8 INSTALLATION Help!
	LOCALIZATION	SOFTWARE	SYS.	ТЕМ
	English (US)	Installation Sou     Local media	urce	Installation Destir Automatic partitioning sele
	English (United States)	Software Select	ction 🍳	KDUMP Kdump is enabled
	O Time & Date Asia/Shanghai timezone		¢	Network & Host Not connected
1	USER SETTINGS		<b></b>	Security Policy
	Root Password Root account is disabled.			
			Quit	Begin Installation
		We won't toud	ch your disks until you	u click 'Begin Installation'.
	$\underline{\triangle}$ – Please complete items marked with	this icon before continuing t	o the next step.	

#### 设置管理员用户

ROOT PASSWORD		OPENCLOUE	OOS 8 INSTALLATION
The root	t account is used for administering the syste	m. Enter a password for the root u	ser.
Root Pas	ssword:	,	•
		We	ak
Confirm:	•••••	,	•
	т		
	1		
🛆 The password fails the d	ictionary check - it is based on a dictionary v	vord. You will have to press <b>Done</b> to	vice to confirm it.

此处设置 root 密码一定要牢记,后期登录需要该账号登录。

#### 开始安装

OpenCloudO5	Downloading packages	OPENCLOUDOS 8 INSTALLATION
	Downoading packages	Quit Reboot System

OpenCloudO5	INSTALLATION PROGRESS	OPENCLOUDOS 8 INSTALLATION ☐ us
		I Quit Reboot System

#### 安装完成

OpenCloudO5	INSTALLATION PROGRESS	OPENCLOUDOS 8 INSTALLATION
	Complete!	
	OpenCloudOS is now	v successfully installed and ready for you to use!
	Go	ahead and reboot your system to start using it! Reboot System at /usr/share/opencloudos-release/EULA

OpentloudD5	INITIAL SETUP ∐≊	License Information License Information	USER SETTINGS User Creation No user will be created	OPENCLOUDOS 8.6 I Helpi
	QUIT			FINISH CONFIGURATION
	A Please complete items marked with this ico	n before continuing to the next step.		

License Info Done	rmation	OPENCLOUD(	OS 8.6 Help!
	License Agreement:		
	OpenCloudOS 8 Linux License Information		
	OpenCloudOS 8 Linux comes with no guarantees or warranties of any sorts, either written or implied.		
	The Distribution is released under the Mulan Permissive Software License 2.0.		
	Individual packages in the distribution come with their own licences. License text for OpenCloudOS 8 Linux is included with the distribution media.		
	Ø   accept the ligense agreement.		
	r		

OpenCloudO5	INITIAL SETUP			OPENCLOUDOS 8.6
		LICENSING	USER SETTINGS	
		License Information	User Creation No user will be created	
				Ι
	QUIT			FINISH CONFIGURATION



# 3 系统和软件升级

升级所有包同时也升级软件和系统内核 yum -y update

升级所有软件包 yum -y upgrade

## 4 VMwaretools 安装(选读)

虚拟机增强工具各个厂家安装方式基本一样,我们已 VMwaretools 为例,演示安装过程。

https://docs.vmware.com/cn/VMware-Workstation-Pro/12.0/com.vmware.ws.using.doc/GUID-08BB9465-D40A-4E16-9E15-8C016CC8166F.html

对于 Linux 虚拟机,您可以使用命令行工具手动安装或升级 VMware Tools。

#### 前提条件

- 开启虚拟机。
- 确认客户机操作系统正在运行。
- 由于 VMware Tools 安装程序是使用 Perl 编写的,因此,请确认在客户机操作系 统中安装了 Perl。

#### 过程

1. 在主机上,从 Workstation Pro 菜单栏中选择虚拟机 > 安装 VMware Tools。

如果安装了早期版本的 VMware Tools,则菜单项是 更新 VMware Tools。

- 2. 在虚拟机中,以 root 身份登录到客户机操作系统并打开终端窗口。
- 3. 不带参数运行 mount 命令以确定 Linux 发行版是否自动装载 VMware Tools 虚拟 CD-ROM 映像。

如果装载了 CD-ROM 设备,将按以下方式列出 CD-ROM 设备及其装载点:

/dev/cdrom on /mnt/cdrom type iso9660 (ro, nosuid, nodev)

- 4. 如果未装载 VMware Tools 虚拟 CD-ROM 映像,请装载 CD-ROM 驱动器。
- a. 如果装载点目录尚不存在,请创建该目录。

mkdir /mnt/cdrom

某些 Linux 发行版使用不同的装载点名称。例如,某些发行版上的装载点是 /media/VMware Tools 而不是 /mnt/cdrom。请修改该命令以反映您的发行版使用的约定。

b. 装载 CD-ROM 驱动器。

mount /dev/cdrom /mnt/cdrom

某些 Linux 发行版使用不同的设备名称,或者以不同的方式组织 /dev 目录。如果 CD-ROM 驱动器不是 /dev/cdrom 或 CD-ROM 装载点不是 /mnt/cdrom,则必须修改该命令以反映您的发行版使用的约定。

5. 转到工作目录,例如 /tmp。

cd /tmp

6. 在安装 VMware Tools 之前, 删除以前的 vmware-tools-distrib 目录。

该目录的位置取决于以前安装时的存储位置。通常,该目录位于 /tmp/vmware-tools-distrib。 之所以删除旧的 vmware-tools-distrib,重新解压的工具包会重新生成该目录。

7. 列出装载点目录的内容,并记下 VMware Tools tar 安装程序的文件名。

Is mount-point

8. 解压缩安装程序。

tar zxpf /mnt/cdrom/VMwareTools-x.x.x-yyyy.tar.gz

x. x. x 值是产品版本号, yyyy 是产品版本的内部版本号。

如果尝试安装 tar 安装以覆盖 RPM 安装或相反,安装程序将检测以前的安装并且必须转换安装程序数据库格式,然后才能继续操作。

9. 如果需要,请卸载 CD-ROM 映像。

umount /dev/cdrom

如果 Linux 发行版自动装载 CD-ROM,则不需要卸载该映像。

10. 运行安装程序并配置 VMware Tools。

cd vmware-tools-distrib ./vmware-install.pl 通常,在安装程序文件结束运行后,将运行 vmware-config-tools.pl 配置文件。

11. 如果适合您的配置,请按照提示接受默认值。

12. 按照脚本结尾处的说明进行操作。

根据使用的功能,这些说明可能包括重新启动 X 将话、重新启动网络连接、重新登录 以及启动 VMware 用户进程。或者,也可以重新引导客户机操作系统以完成所有这些任务。

## 5 设置主机网卡

nmtui

手动设置网卡



编辑网卡

Edit Connection	
Profile name ens33 Device ens33 (00:0C:29:58:5D:A9)	
= ETHERNET	<show></show>
IPv4 CONFIGURATION (Manual> Addresses 192.168.8.175/24 (Remove> (Add) Gateway 192.168.8.1 DNS servers 192.168.8.1 (Remove> (Add) Search domains (Add) Routing (No custom routes) (Edit) I Never use this network for default route I legnore automatically obtained routes I legnore automatically obtained DNS parameters I legnore automatically obtained DNS parameters I legnore IPv4 addressing for this connection	(Hide)
= IPv6 CONFIGURATION <automatic></automatic>	<show></show>
[X] Automatically connect [X] Available to all users	
	<cancel> <ok></ok></cancel>

重新启动网卡 systemctl restart network





Setup

Image: NetworkManager TUI         Please select an option         Set Hostname         Hostname         Animeng9               Cancel> <ok></ok>	
	Hostname anmeng9

注意需要修改 hosts 文件

#### vim /etc/hosts



基本测试 Hostname Hostname –i



## 7 安装服务端

[root@anmeng9 opt]# vim /etc/profile

尾部添加 export ACE\_HOME=/opt/aceserver



更新管径变量

source /etc/profile

## 7.1 启动安装脚本

以管理员身份启动脚本安装,转入解压目录

./install.sh

[root@anmeng9 anmeng-9.0_2.2.07-linux-x86_64_full]# source /etc/profile
[root@anmeng9 anmeng-9.0_2.2.07-linux-x86_64_full]# ./install.sh
ACE_HOME:/opt/aceserver
install dependency package
上次元数据过期检查: 0:41:26 前,执行于 2022 年 09 月 24 日 星期六 07 时 20 分 09 秒。
软件包 vim-enhanced-2:8.2.1412-3.uelc20.01.x86_64 已安装。
软件包 net-tools-2.0-0.53.20160912git.uelc20.2.x86_64 已安装。
install mysql
/opt/anmeng-9.0_2.2.07-linux-x86_64_full/dependency_software/mysql
########### A tool to auto-compile & install MySQL on Redhat/CentOS 6 or 7 Linux ##############################
######################################
Checking user :
user is root, this is ok!
checking os version
os is linux,this is ok!
mysql datadir /data/mysql is not exist,this is ok!
os version is el6 or el7, this is ok!
msyql port is not 3306! this is ok!
MySQL root'password is:Anmeng12#\$
You will install MySQL
uncompressioning mysal-5 7 28-linux-glibc2 12-x86 64 targz file
please wait a few minutes
directory /data/mysol created succeed!
directory /data/slowlog created succeed!
Starting MvSQL SUCCESS!
Shutting down MvSOL. SUCCESS!
Starting MvSQL. SUCCESS!
======================================
,
======================================
Checking

MySQL: OK									
Active Internet connections (only servers)									
Proto Recv-Q Send-Q I	Proto Recv-Q Send-Q Local Address Foreign Address State								
tcp 0 0	0 127.0.0.1:3306	0.0.0.0:*	LISTEN						
tcp 0 0	0 0.0.0.0:111	0.0.0.0:*	LISTEN						
tcp 0 0	0 0.0.0.0:22	0.0.0.0:*	LISTEN						
tcp 0 0	0 127.0.0.1:631	0.0.0.0:*	LISTEN						
tcp6 0 0	ccp6 0 0 :::111 :::* LISTEN								
tcp6 0 0	0 :::22	*	LISTEN						
tcp6 0 0	0 ::1:631	*	LISTEN						
root 45754	1 1 08:07 pts/	00:00:00 /	/bin/sh /usr/local/mysql/bin/mysqld_safe						
datadir=/data/mysql	-pid								
-file=/data/mysql/mys	sql.pid								
mysql 46	5867 45754 13 08	:07 pts/0	00:00:00 /usr/local/mysql/bin/mysqld						
basedir=/usr/local/my	/sqldatadir=/da								
ta/mysqlplugin-dir=	-/usr/local/mysql/lib/plugir	nuser=mysqll	log-error=/data/mysql/error.logopen-files-						
limit=8192									
pid-file=/data/mysc	ql/mysql.pidsocket=/tmp	/mysql.sockport	t=3306						
root 47905	6001 0 08:07 pts/0	00:00:00 grep m	ysql						
=======cl	hecked successed!checking	g result MySQL co	mpleted! ================						
#######################################	#Finish###################	*######################################							
install anmeng core									
ACE_HOME:/opt/aces	server								
/opt/anmeng-9.0_2.2.	.07-linux-x86_64_full/anm	eng-core							
############ A tool	to auto-compile & insta	all ACE Core Cor	nponent on Redhat/CentOS 6 or 7 Linux						
#######################################									
#######################################	############# Check the er	nvironment	#######################################						
Checking user :									
user is root, this is ok!									
checking os version									
os is linux,this is ok!									
os version is el6 or el7	', this is ok!								
directory /opt/aceserv	ver created succeed!								
######################################									
uncompressioning anmeng-core-2.2.07.tar.gz file									
please wait a few minutes									
ACE Core Component install completed									
install java									
ACE_HOME:/opt/aces	server								
/opt/anmeng-9.0_2.2.	.07-linux-x86_64_full/depe	endency_software	/java						

########### A tool to auto-compile & install Java on Redhat/CentOS 6 or 7 Linux ##################### Checking user : user is root, this is ok! checking os version os is linux, this is ok! os version is el6 or el7, this is ok! uncompressioning jdk-8u311-linux-x64.tar.gz file...... please wait a few minutes..... install tomcat ACE\_HOME:/opt/aceserver /opt/anmeng-9.0\_2.2.07-linux-x86\_64\_full/dependency\_software/tomcat Checking user : user is root, this is ok! checking os version os is linux, this is ok! os version is el6 or el7, this is ok! uncompressioning apache-tomcat-8.5.82.tar.gz file...... please wait a few minutes..... install anmeng manang component ACE\_HOME:/opt/aceserver /opt/anmeng-9.0\_2.2.07-linux-x86\_64\_full/anmeng-amm ########### A tool to auto-compile & install ACE AMM Component on Redhat/CentOS 6 or 7 Linux Checking user : user is root, this is ok! checking os version os is linux, this is ok! os version is el6 or el7, this is ok!

directory /opt/aceserver created succe	ed!								
directory /opt/aceserver/tomcat/weba	pps is ok!								
######################################	E Manage	Comonpent	Installing	. ##############	############				
uncompressioning anmeng-amm-2.2.0	7.tar.gz file	е							
please wait a few minutes									
ACE	Manage (	Component i	nstall complete	d======					
Using CATALINA BASE / ont/acesery	/er/tomca	t							
Using CATALINA HOME: /opt/acese	rver/tomc	at							
Using CATALINA TMPDIR: /opt/acesen	er/tomcat	t/temn							
Using IRE_HOME: /opt/accsci	rver/iava	() temp							
Using CLASSPATH: /opt/accsch	ver/tomca	t/hin/hootst	ran iar:/ont/ace	server/tomcat/h	in/tomcat_iuli iar				
	/er/tonica	ty billy bootst	1ap.jai./0pt/acc	server, torreat, b	ny torricat-juni.jai				
Tomcat started									
install anmeng ag	install enmong og								
/ont/anmeng-9.0.2.2.07-linux-x86.64	full/anme	ang-ag							
######################################	_install Δι	CE Auth Gate	eway Compone	nt on Redhat/Cer	atOS 6 or 7 Linux				
######################################	eck the er	vironment	#########	****	##				
Checking user :									
user is root, this is ok!									
checking as version									
os is linux this is ok!									
os version is el6 or el7, this is ok!									
directory /opt/aceserver created succe	ed!								
*****	ACE	Auth	Gateway	Comonpent	Installing				
#######################################									
uncompressioning anmeng-ag-2.2.07.ta	ar.gz file								
please wait a few minutes	-								
	ACE	Auth	Gateway	Compone	ent install				
completed===================================	==								
[root@anmeng9 anmeng-9.0_2.2.07-lin	nux-x86_6	64_full]#							

### 7.2 配置认证角色

[root@anmeng9 bin]# cp /opt/license.xml ./ [root@anmeng9 bin]# cd /opt/aceserver/anmeng-core/bin [root@anmeng9 bin]# cp /opt/license.xml ./ [root@anmeng9 bin]# ./createdb

Please select operation type: 1. Create a new server 2. Restore data 3. Quit 1 Please select the type of server 1. master server 2. slave server 1 szMsg:execute sql sentence successful. host ip = 192.168.0.208 ,do you want to change it? ('y' or 'n')n The database has been created. [root@anmeng9 bin]#

[root@anmeng9 bin]# ./aced start Start core service...... core service started. Start core syncsrv...... core sync service started. [root@anmeng9 bin]#

浏览器打开

	× +					x
		A" ( <b>6</b>	ଓ ∖⊱	Ē (ē	<b>6</b> 2	
	● 请输入用户名和密码	i				
	Sysadmin					
	登录					
新初能友 而山之			on Inc. All Rights			
版权对有四川安	BR THESE HIRE TAP COPYINGNE (2020	anmeng.com.	ch inc. All Rights	Reserved.		

安装完成



### 7.3 添加认证网关

注意,安盟所有组件使用都是"注册机制"。

安盟认证网关的启用,需要先在管理组件 AMM 中注册,然后在初始化安装。只有系统管理员 Sysadmin 才能安装 AG 组件。如果密码已经更改,请务必识记,因为初始化 AG 组件需要用到密码进行确认。

首次运行,以管理员身份登录管理组件,在组件管理中,添加一台认证网关组件, 如下图所示:

FNMENG 安 security 盟	■ 资源 系统 RADIUS	5属性						您好,sysad 公共资源区	<sup>Imin</sup> ~
系统设置 ~ · · · · · · · · · · · · · · · · · ·	新建组件 删除组件 修改地	Ŀ			搜索		C	c   III -	
④运行参数 /	□ 组件名称 3	↓ 组件地址	组件类型	组件角色	状态	创建时间			
2 组件管理	ace-core-primary	192.168.1.200	核心	主机	启用	2020-03-1	1 22:19	:40	
• 导入用户	显示第1到第1条记录,总共1条记	录							
13 导入令牌									
🔓 系统许可									
昱代理主机配置文件									
IDAP策略									
🧧 会话管理									

基本资料		
	组件名称	ag1
	组件地址	192.168.1.200
	组件类型	认证网关 ▼ *
提交保存	返回组件	列表

#### 注: 核心组件和认证网关可以安装在同一台电脑上。

🔒 后台管理中心	× +						
$\leftarrow$ $\rightarrow$ C $\textcircled{a}$	🛈 윮 https:,	//192.168.0.	200:8443/index.l	ntml	⊠ ☆	III\ 🗉 🛛 🖏	≡
RNMENG 安 security 盟	■ 资源	系统	RADIUS属性	批量操作		息。 您好,sysadmin 公共资源区	~
系统设置	基本资料						
₩ 系统参数							
回 运行参数	组	HH名称 Ar	mengACE_AG01				
🛯 组件管理	组	19	2.168.0.200				
每 导入用户	4F	и <del>л ж.л</del> і - і.					
🎝 导入令牌	×						
🖥 系统许可							
🕕 LDAP策略	提交保存	返回组件列表					
🧧 会话管理							
星代理主机配置文件							

初始化 AG 服务

cd /opt/aceserver/anmeng-ag/prog ./createdb

[root@ace-primary prog]# [root@ace-primary prog]# ./createdb Do you want to initialize the database of this component? ('y' or 'n')y Please input master server address: 192.168.1.200 Please input master server port: 6580 Please input the password of sysadmin: Create database...... Downloading data from core server..... The database has been initialized. [root@ace-primary prog]# 需输入sysadmin的密码

注意: sysadmin 密码就是系统管理员密码

```
[root@ACEPrimary prog]# ./createdb
Do you want to initialize the database of this component? ('y' or 'n')y
Please input master server address: 192.168.0.200
Please input master server port: 6580
Please input the password of sysadmin:
Create database.....
Downloading data from core server.....
The database has been initialized.
[root@ACEPrimary prog]# ]
```

启动 AG 服务

组件初始化成功之后,运行./startserver 就可以启动组件,如下所示:

cd /opt/aceserver/anmeng-ag/prog ./startserver

```
[root@ace-primary prog]#
[root@ace-primary prog]# ./startserver
Start broker......
Broker started.
Start authengine.....
Autheticate engine started.
Start radiusserver.....
radius service started.
Start syncsrv......
sync service started.
[root@ace-primary prog]#
```

通过 netstat-ano | grep -E '1812|1813|6500' 查看 udp 1812,1813,6500 等端口是否在监 听,如下图所示:

[root@ace	-primary	/ prog]# netstat	-ano	grep -E '1812 1813 6500'		
udp	0	0 0.0.0.0:6500		0.0.0.0:*	off	(0.00/0/0)
udp	0	0 0.0.0.0:1812		0.0.0:*	off	(0.00/0/0)
udp	0	0 0.0.0.0:1813	1	0.0.0:*	off	(0.00/0/0)
[root@ace-primary prog]#						

检查状态

netstat-ano | grep -E '1812|1813|6500'

到此,安盟认证系统主机安装完成。