安盟多因素身份认证系统 V9.0 基于 openEuler 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

版本	摘要	编者	时间
1.00	基本服务器安装;设置主机名称;设置网卡	陈俊	2023/02/27
1.01	增加基本配置	陈俊	2023/02/27
1.02	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 openEuler 类型的服务器上。 openEuler 为华为自主研发的欧拉主机系统,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 资源基本配置

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,可以直接选在 CentOS 类型 64bit 模板安装。

2.2 基本设置





2.2.1 设置日期时间

	INSTALLATION SUMMARY	openEuler 22.03-1 📟 us	LTS-SP1 INSTALLATION
openLuter	LOCALIZATION	SOFTWARE SYST	ГЕМ
	Keyboard English (US)	Installation Source LABEL=openEuler-22.03- LTS-SP1-x86_64:	Installation Destination Automatic partitioning
	Language Support English (United States)	Software Selection Animal Install	Network & Host Name Not connected
	Time & Date Asia/Shanghai timezone		
	USER SETTINGS		
	Root Account Root account is disabled		
		Quit We won't touch your disks und	Begin Installation
	A Please complete items marked v	vith this icon before continuing to the next s	tep.

TIME	& DATE				open	Euler 22.03-LTS-SP1 INSTALLATION
Don					🖾 us	
Region:	Asia		▼ City	Shanghai	•	Network Time 🥢 🥔
^ 17 ~	^ :28 ~	O 24-hour AM/PM				02 • / 27 • / 2023 •
			I			

2.2.2 设置服务器角色



SOFTWARE SELECTION	openEuler 22.03-LTS-SP1 INSTALLATION
Done	🖼 us
Base Environment Minimal Install Basic functionality. Server An integrated, easy-to-manage server. Virtualization Host Minimal virtualization host.	Additional software for Selected Environment DNS Name Server This package group allows you to run a DNS name server (BIND) on the system. File and Storage Server CIFS, SMB, NFS, iSCSI, iSER, and iSNS network storage server. openGauss Server openGauss is an open source relational database management system. FTP Server These tools allow you to run an FTP server on the system. Hardware Monitoring Utilities A set of tools to monitor server hardware. Infiniband Support Software designed for supporting clustering, grid connectivity, and low-latency, high bandwidth storage using RDMA-based InfiniBand, iWARP, RoCE, and OPA fabrics. Mail Server These packages allow you to configure an IMAP or SMTP mail server. Network File System Client

注意:选择结构化服务器模式,让操作系统具备基本的网络通信功能。

2.2.3 设置默认硬盘

	INSTALLATION SUMMARY	openEuler 2 📟 us	2.03-LTS-SP1 INSTALLATION
openEuter	LOCALIZATION	SOFTWARE	SYSTEM
	Keyboard English (US)	Installation Source LABEL=openEuler-22.03- LTS-SP1-x86_64:	Installation Destination Automatic partitioning
	वि Language Support English (United State ब्र्	Software Selection	Retwork & Host Name Wired (ens33) connected
	Sia/Shanghai timezone		
	USER SETTINGS		
	Root Account Root password is set		
	• • • •	Quit We won't touch your di	Begin Installation

INSTALLATION DESTINATION	openEuler 22.03-LTS-SP1 INSTALLATION
Done	🖾 us
Device Selection	
Select the device(s) you'd like to install to. They "Begin Installation" button.	will be left untouched until you click on the main menu's
Local Standard Disks	
20 GiB	
sda / 1023 KiB 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	
O Automatic O Custom	
I would like to make additional space available.	
Full disk summary and boot loader	1 disk selected; 20 GiB capacity; 1023 KiB free Refresh

默认设置即可。

2.2.4 网卡设置设置

	INSTALLATION SUMMARY	openEuler 2 📟 us	22.03-LTS-SP1 INSTALLATION
openetici	LOCALIZATION	SOFTWARE	SYSTEM
	Keyboard English (US)	Installation Source LABEL=openEuler-22.03- LTS-SP1-x86_64:	DInstallation Destination Automatic partitioning
	Language Support English (United States)	Software Selection	Retwork & Host Name Not connected
	Sia/Shanghai timezone		
	USER SETTINGS		
	Root Account <i>Root account is disabled</i>		
		Quit We won't touch your d	Begin Installation
	A Please complete items marked v	vith this icon before continuing to the	e next step.

NETWORK & HOST NAME	openEuler 22.03-LTS-SP1 INSTALLATION 🖼 us
Ethernet (ens33) 82545EM Gigabit Ethernet Controller (Copper) (PRO/100)	Ethernet (ens33)
	Hardware Address 00:0C:29:A1:13:F8
	Speed 1000 Mb/s
	IP Address 192.168.67.131/24
	DNS 192168.67.2
+ – Host Name:	Configure Apply Current host name: localhost
Host Name:	Apply Current host name: localhost

2.2.5 设置 root 密码



设置管理员用户

ROOTACCOUNT			openEuler 22.0	3-LTS-SP1 INSTALLATION
Done			🖼 us	
	The root account is u	used for administering the system.		
	The root user (also known as super user) has complete access to the entire system. For this reason, logging into this system as the root user is best done only to perform system maintenance or administration.			
	🔵 Disable root acc	ount		
	Disabling the root account will lock the account and disable remote access with root account. This will prevent unintended administrative access to the system.			
	O Enable root account			
	Enabling the root account will allow you to set a root password and optionally enable remote access to root account on this system.			
	Root Password:	•••••	6	
		(Good	/
	Confirm:	•••••	Ĩ	
	Use SM3 to e	ncrypt the password		,
	The root account is u The root user (also k For this reason, logg perform system main Disable root acco Disabling the root root account. Th Enable root acco Enabling the root enable remote a Root Password: Confirm: Use SM3 to e	<pre>ised for administering the system. nown as super user) has complete acc ing into this system as the root user is intenance or administration. ount ot account will lock the account and d is will prevent unintended administrat ount ot account will allow you to set a root p ccess to root account on this system. </pre>	eess to the entire sy s best done only to isable remote acces tive access to the sy password and optic Good	stem. ss with stem. onally

开始安装



安装完成

openEuler	INSTALLATION PROGRESS	openEuler 22.03-LTS-SP1 INSTALLATION
	Installing python3.x86_64 (347/780)	
		Quit Reboot System

openEuler	INSTALLATION PROGRESS	openEuler 22.03-LTS-SP1 INSTALLATION
	Complete!	
		openEuler is now successfully installed and ready for you to use! Go ahead and reboot your system to start using it! Reboot System

openEuler 22.03 (LTS-SP1) Kernel 5.10.0-136.12.0.86.oe2203sp1.x86_64 on an x86_64 Activate the web console with: systemctl enable --now cockpit.socket localhost login: root assword: Authorized users only. All activities may be monitored and reported. Welcome to 5.10.0-136.12.0.86.0e2203sp1.x86_64 System information as of time: Mon Feb 27 06:28:10 PM CST 2023 Sustem load: 144 19.0% rocesses: Memory used: Swap used: Usage On: 0% 14% 192.168.67.131 192.168.122.1 IP address: IP address: sers online: [root@localhost ~]# _

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。

4.1 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。

4.2 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。

ls 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



重新启动网卡 systemctl restart network

6 设置主机名称



Setup

Hostname anneng9 <pre></pre>

注意需要修改 hosts 文件 vim /etc/hosts



基本测试 Hostname

Hostname –i

~ "/etc/hosts" 3L, 202B written [root@localhost ~]# hostname anmeng9 [root@localhost ~]# hostname -i 192.168.0.210 [root@localhost ~]# _

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]# ./install.sh
ACE_HOME:/opt/aceserver
nstall 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 己安装。
软件包 net-tools-2.0-0.53.20160912git.uelc20.2.x86_64 己安装。
nstall 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!

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
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
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
msyql port is not 3306! this is ok! MySQL root'password is:Anmeng12#\$ You will install MySQL
MySQL root'password is:Anmeng12#\$ You will install MySQL
MySQL root'password is:Anmeng12#\$ You will install MySQL
MySQL root'password is:Anmeng12#\$ You will install MySQL
You will install MySQL
######################################
uncompressioning mysql-5.7.28-linux-glibc2.12-x86_64.tar.gz file
please wait a few minutes
directory /data/mysql created succeed!
directory /data/slowlog created succeed!
Starting MySQL SUCCESS!
Shutting down MySQL SUCCESS!
Starting MySQL SUCCESS!
======================================
======================================
MysqL: OK
Active Internet connections (only servers)
tcp 0 0127.0.0.1:3306 0.0.0.0:* LISTEN
tep 0 000.0.0.111 0.0.0.0.* LISTEN
tep 0 0.0.0.0.22 0.0.0.0. ² LISTEN
tcp 0 0127.0.0.1:631 0.0.0.0.** LISTEN
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 :::21 :::* LISTEN
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 4E754 1 1.08:07.ptc/0 00:00:00./// bip /pu/gd/// bip /pu/gd// b
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadize (data (muscl_ pid_ pid_
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadir=/data/mysqlpid
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadir=/data/mysqlpid - - - - -file=/data/mysql/mysql.pid 46867 46267 46267 00:07 ptr/0 00:00:00 (usr/local/mysql/bin/mysq
tcp6 0 0:::111 :::* LISTEN tcp6 0 0:::22 :::* LISTEN tcp6 0 0::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadir=/data/mysqlpid -file=/data/mysql/mysql.pid mysql 46867 45754 13 08:07 pts/0 00:00:00 /usr/local/mysql/bin/mysqld basedir=/usr /local/mysql datadir=/da
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadir=/data/mysqlpid
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadir=/data/mysqlpid
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadir=/data/mysqlpid
tcp6 0 0 :::111 :::* LISTEN tcp6 0 0 :::22 :::* LISTEN tcp6 0 0 ::1:631 :::* LISTEN root 45754 1 1 08:07 pts/0 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe datadir=/data/mysqlpid - - - - file=/data/mysql/mysql.pid mysql 46867 45754 13 08:07 pts/0 00:00:00 /usr/local/mysql/bin/mysqld basedir=/usr/local/mysqldatadir=/da - <t< td=""></t<>

######################################
install anmeng core
ACE_HOME:/opt/aceserver
/opt/anmeng-9.0_2.2.07-linux-x86_64_full/anmeng-core
######################################
#######################################
######################################
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 succeed!
######################################
uncompressioning anmeng-core-2.2.07.tar.gz file
please wait a few minutes
======================================
install java
ACE_HOME:/opt/aceserver
/opt/anmeng-9.0_2.2.07-linux-x86_64_full/dependency_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
############# A tool to auto-compile & install Apache Tomcat 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 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 succeed! directory /opt/aceserver/tomcat/webapps is ok! uncompressioning anmeng-amm-2.2.07.tar.gz file..... please wait a few minutes..... Using CATALINA_BASE: /opt/aceserver/tomcat Using CATALINA_HOME: /opt/aceserver/tomcat Using CATALINA TMPDIR: /opt/aceserver/tomcat/temp Using JRE_HOME: /opt/aceserver/java Using CLASSPATH: /opt/aceserver/tomcat/bin/bootstrap.jar:/opt/aceserver/tomcat/bin/tomcat-juli.jar Using CATALINA_OPTS: Tomcat started. install anmeng ag ACE_HOME:/opt/aceserver /opt/anmeng-9.0_2.2.07-linux-x86_64_full/anmeng-ag

############### A tool to auto-compile & install ACE Auth Gateway Component on Redhat/CentOS 6 or 7 Linux								

######################################	eck the en	vironment	########	##############	##			
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!							
****	ACE	Auth	Gateway	Comonpent	Installing			

uncompressioning anmeng-ag-2.2.07.ta	ar.gz file							
please wait a few minutes								
	ACE	Auth	Gateway	Compon	ent install			
completed=======	==							
[root@anmeng9 anmeng-9.0_2.2.07-li	านx-x86_6	i4_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

🗖 😔 管理员登录 🛛 🗙	+	-				X
← C ▲ 不安全 https://192	.168.0.208:8443/login.html;jse	s A to	3 ⊱	Ĥ 🤅	6	
	④ 请输入用户名和	密码				
	Sysadmin					
	·····	Ô				
	登录					
版权所有 四川安盟电子信息						

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 II	弓性						您好,sysa 公共资源区	dmin	~
系统设置	新建组件 删除组件 修改地址			1	搜索		Θ	c III -	. 2.	•
2 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				
1 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										
📱 代理主机配置文件										
de LDAP策略										
🔁 会话管理										

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 http	s://192.16	8.0.200:8443/index.	html	⊠ ☆	III\ 🗉 😔 👒	≡
ANMENG 安 security 盟	● 资源	系统	RADIUS属性	批量操作		悠好 , sysadmin 公共资源区	~
系统设置	基本资料						
☀ 系统参数	2120						
@ 运行参数		组件名称	AnmengACE_AG01				
1 组件管理		组件地址	192.168.0.200				
每入用户		组件类型	认证网关 ▼ *				
▲] 导入令牌 							
	担态原左	波同组件	列圭				
	DEX.DKIJ	221-122111					
 一 云响自埋 二 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]# ■

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	<pre>/ prog]# netstat</pre>	-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		0.0.0.0:*	off	(0.00/0/0)
udp	0	0 0.0.0.0:1813		0.0.0.0:*	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。