ipa-server搭建及排错之过程

一、服务端配置:

硬件环境: KVM(4C/8G/100G)

系统环境: CentOS-6.5-x86_64-minimal

软件环境: Dogtag Certificate System(389 Directory Server/Kerberos KDC with LDAP Backend/Apache for Web Based Services/

ipa_kpasswd/DNS/NTP)

网络配置:

主机名	ipa01.cmccrd.com	ipa02.cmccrd.com	ipa03.cmccrd.com
IP地址	192.168.11.50	192.168.11.51	192.168.11.32
网关	192.168.11.251	192.168.11.251	192.168.11.251
DNS	192.168.11.7	192.168.11.7	192.168.11.7
IPTABLES/SELINUX	关闭	关闭	关闭

安装软件:

#yum -y install ipa-server

执行安装脚本 #ipa-server-instal

设置ipa服务开机启动状态:

#chkconfig ipa on

服务端安装日志保存路径: /var/log/ipaserver-install/log

访问方式

http://ipa01.cmccrd.com

防火墙配置:如需要开启防火墙,请开启以下端口:

tcp 88 udp 88 tcp 464 udp 464 tcp 53 udp 53 udp 123 tcp 389 tcp 636 tcp 80 tcp 443

tcp 7389

二、服务端Replicate配置

1、安装ipa-server软件包

[root@ipa02 ~]# yum install ipa-server

2、在ipa01上进行replica preparation

[root@ipa01 ~]# ipa-replica-prepare —ip-address=192.168.11.51 ipa02.cmccrd.com 3、执行完成之后会在/var/lib/ipa/下生成ipa02所需IPA Multimaster Replication的gpg文件,然后将它拷贝到ipa02 [root@ipa01 ~]# scp /var/lib/ipa/replica-info-ipa02.cmccrd.com.gpg ipa02.cmccrd.com:/var/lib/ipa/

4、在ipa02上执行如下命令进行ipa-replica的安装并配置ca和dns-forwarder [root@ipa02 ~]# ipa-replica-install /var/lib/ipa/replica-info-ipa02.cmccrd.com.gpg 输入DM password: 输入ipa管理员密码:

配置完成后,可以通过如下命令查看ipa-replica的服务器列表

[root@ipa01 ~]# ipa-replica-manage list

ipa01.cmccrd.com: master ipa02.cmccrd.com: master

三、IPA客户端配置:

安装软件包: #yum -y install ipa-client 执行安装脚本: #ipa-client-install 非交互式安装方法: /usr/sbin/ipa-client-install --domain=cmccrd.com --server=ipa01.cmccrd.com --enable-dns-updates --mkhomedir -p admin -w xxxxx --realm=CMCCRD.COM —unattended

四、常见问题

常见问题	故障级别	故障描述	解决办法	影响范围
登录	严重	ipa账号无法登录	启动sssd服务	当前主机
家目录	严重	用户无home目录	启动oddjobd服务,并—enablemkhomedir	当前主机
sudo	严重	用户不能sudo	ipa-client-install脚本不提供sudo的自动配置,因此需要手动修改配置文件完成/etc/sssd/sssd.conf /etc/nsswitch.conf /etc/sudo-ldap.conf。在/etc/sudo-ldap.conf中开启debug排错,请注意您所属角色是否拥有您所使用命令的执行权限。	当前主机
启动失败	灾难	ipa服务启动失败	重启后dse.ldif文件丢失,原因目录服务非法关闭	所有主机
web登录失败	严重	web页面用户无法登录	注意服务器时间是否正确,NTP问题	所有主机

五、外部DNS服务的配置:

如果在搭建过程中选择使用外部的DNS服务器,那么你需要在您的dns服务器中增加如下资源解析记录:

\$ORIGIN cmccrd.com.

ipa01 IN A 192.168.11.50

TXT "kvm:kvm02.cmccrd.com"

ipa02 IN A 192.168.11.51

TXT "kvm:kvm13.cmccrd.com"

; Idap servers

;kerberos realm

_kerberos IN TXT CMCCRD.COM

; kerberos servers

_kerberos._tcp IN SRV 0 100 88 ipa01 IN SRV 0 100 88 _kerberos._tcp ipa02 _kerberos._udp IN SRV 0 100 88 ipa01 IN SRV 0 100 88 _kerberos._udp ipa02 _kerberos-master._tcp IN SRV 0 100 88 ipa01 _kerberos-master._tcp IN SRV 0 100 88 ipa02 _kerberos-master._udp IN SRV 0 100 88 ipa01 _kerberos-master._udp IN SRV 0 100 88 ipa02 IN SRV 0 100 464 ipa01 _kpasswd._tcp IN SRV 0 100 464 ipa02 _kpasswd._tcp _kpasswd._udp IN SRV 0 100 464 ipa01 _kpasswd._udp IN SRV 0 100 464 ipa02

;ntp server

_ntp._udp IN SRV 0 100 123 ipa01 _ntp._udp IN SRV 0 100 123 ipa02

六、与第三方应用整合的配置:

以jira为例:

=== Current user === Directory ID: 1 Username: admin Display name: cmccrd

Email address: admin@cmccrd.com

=== Directories configured ===

Directory ID: 1

Name: JIRA Internal Directory

Active: true
Type: INTERNAL

Created date: Thu Feb 28 11:57:51 CST 2013 Updated date: Thu Feb 28 11:57:51 CST 2013

Allowed operations: [CREATE_GROUP, CREATE_ROLE, CREATE_USER, DELETE_GROUP, DELETE_ROLE, DELETE_USER, UPDATE_GROUP,

UPDATE_GROUP_ATTRIBUTE, UPDATE_ROLE, UPDATE_ROLE_ATTRIBUTE, UPDATE_USER, UPDATE_USER_ATTRIBUTE]

Implementation class: com.atlassian.crowd.directory.InternalDirectory

Encryption type: atlassian-security

Attributes:

```
"user encryption method": "atlassian-security"
Directory ID: 10000
Name: IPA-SERVER
Active: false
Type: CONNECTOR
Created date: Mon Aug 25 12:02:29 CST 2014
Updated date: Tue Aug 26 10:45:57 CST 2014
Allowed operations: [UPDATE_GROUP_ATTRIBUTE, UPDATE_USER_ATTRIBUTE]
Implementation class: com.atlassian.crowd.directory.OpenLDAPRfc2307
Encryption type: sha
Attributes:
  "autoAddGroups": ""
  "com.atlassian.crowd.directory.sync.currentstartsynctime": "null"
  "com.atlassian.crowd.directory.sync.lastdurationms": "121"
  "com.atlassian.crowd.directory.sync.laststartsynctime": "1409021130522"
  "crowd.sync.incremental.enabled": "true"
  "directory.cache.synchronise.interval": "3600"
  "ldap.basedn": "dc=cmccrd,dc=com"
  "Idap.connection.timeout": "10000"
  "Idap.external.id": "entryUUID"
  "Idap.group.description": "groupofnames"
  "Idap.group.dn": ""
  "Idap.group.filter": "(objectclass=posixgroup)"
  "Idap.group.name": "uid"
  "Idap.group.objectclass": "posixgroup"
  "Idap.group.usernames": "uniqueMember"
  "Idap.local.groups": "false"
  "Idap.nestedgroups.disabled": "true"
  "Idap.pagedresults": "false"
  "ldap.pagedresults.size": "1000"
  "ldap.password": ******
  "Idap.pool.initsize": "null"
  "Idap.pool.maxsize": "null"
  "Idap.pool.prefsize": "null"
  "Idap.pool.timeout": "0"
  "Idap.propogate.changes": "false"
  "Idap.read.timeout": "120000"
  "Idap.referral": "false"
  "Idap.relaxed.dn.standardisation": "true"
  "Idap.roles.disabled": "true"
  "Idap.search.timelimit": "60000"
  "Idap.secure": "false"
  "Idap.url": "Idap://ipa01.cmccrd.com:389"
  "Idap.user.displayname": "Administrator"
  "Idap.user.dn": ""
  "Idap.user.email": "Administrator"
  "Idap.user.encryption": "sha"
  "Idap.user.filter": "(objectclass=posixaccount)"
  "Idap.user.firstname": "givenName"
  "Idap.user.group": "memberOf"
  "Idap.user.lastname": "sn"
  "Idap.user.objectclass": "posixaccount"
  "Idap.user.password": "userpassword"
  "Idap.user.username": "cn"
  "ldap.user.username.rdn": "cn"
  "Idap.userdn": "uid=sherwinwang,cn=users,cn=accounts,dc=cmccrd,dc=com"
  "Idap.usermembership.use": "false"
  "Idap.usermembership.use.for.groups": "false"
  "localUserStatusEnabled": "false"
Directory ID: 10001
Name: IPA-SERVER
Active: true
Type: CONNECTOR
Created date: Mon Aug 25 13:07:30 CST 2014
Updated date: Tue Aug 26 11:04:24 CST 2014
Allowed operations: [CREATE GROUP, DELETE GROUP, UPDATE GROUP, UPDATE GROUP ATTRIBUTE, UPDATE USER ATTRIBUTE]
Implementation class: com.atlassian.crowd.directory.GenericLDAP
Encryption type: ssha
Attributes:
  "autoAddGroups": "jira-users"
  "com.atlassian.crowd.directory.sync.currentstartsynctime": "null"
  "com.atlassian.crowd.directory.sync.lastdurationms": "183"
  "com.atlassian.crowd.directory.sync.laststartsynctime": "1409021815869"
  "crowd.sync.incremental.enabled": "true"
  "directory.cache.synchronise.interval": "3600"
  "Idap.basedn": "cn=users,cn=accounts,dc=cmccrd,dc=com"
  "Idap.connection.timeout": "10000"
  "Idap.external.id": "entryUUID"
```

"Idap group description": "description"

"Idap.group.dn": ""

```
"Idap.group.filter": "(objectclass=groupOfUniqueNames)"
"ldap.group.name": "cn"
"Idap.group.objectclass": "groupOfUniqueNames" "Idap.group.usernames": "uniqueMember"
"Idap.local.groups": "true"
"Idap.nestedgroups.disabled": "true"
"Idap.pagedresults": "false"
"Idap.pagedresults.size": "1000"
"ldap.password": ******
"Idap.pool.initsize": "null"
"Idap.pool.maxsize": "null"
"ldap.pool.prefsize": "null"
"Idap.pool.timeout": "0"
"Idap.propogate.changes": "false"
"Idap.read.timeout": "120000"
"Idap.referral": "false"
"Idap.relaxed.dn.standardisation": "false"
"ldap.roles.disabled": "true"
"Idap.search.timelimit": "60000"
"Idap.secure": "false"
"ldap.url": "ldap://ipa01.cmccrd.com:389"
"Idap.user.displayname": "displayName"
"Idap.user.dn": ""
"ldap.user.email": "mail"
"Idap.user.encryption": "ssha"
"Idap.user.filter": "(objectclass=inetorgperson)"
"Idap.user.firstname": "givenName"
"ldap.user.group": "memberOf"
"ldap.user.lastname": "sn"
"Idap.user.objectclass": "inetorgperson"
"Idap.user.password": "userPassword"
"Idap.user.username": "uid"
"Idap.user.username.rdn": "uid"
"Idap.userdn": "uid=admin,cn=users,cn=accounts,dc=cmccrd,dc=com"
```

"Idap.usermembership.use": "false"

"localUserStatusEnabled": "false"

"Idap.usermembership.use.for.groups": "false"