

NIS+LDAPmapping problem

Source: <http://unix.derkeiler.com/Mailing-Lists/SunManagers/2005-03/0468.html>

From: Bob Cregan (bob.cregan_at_maths.bath.ac.uk)

Date: 03/30/05

Date: Wed, 30 Mar 2005 09:16:43 +0100

To: sunmanagers@sunmanagers.org

Hi

I'm having having a problem setting up a NIS+ to ldap gateway. I have followed the instructions found in

<http://www.sun.com/blueprints/0903/817-3594.pdf>

ie

- 1) ran idsconfig against a Sun One 5.2 directory server.
- 2) setup /etc/default/rpc.nisd and have seen the authenticated connections coming in on the ldap server logs
- 3) edited NIS+LDAPmapping.template to remove the unnecessary entries to be put in the nisPlus container, as recommended by the blueprint.

but when I run a test I get

```
root:nis # nisldapmaptest -v -m NIS+LDAPmapping.test -r -t
group.org_dir name=maths name=testgr
objToLDAP: group.org_dir.maths.bath.ac.uk.
objToLDAP: group.org_dir.maths.bath.ac.uk. (no mapping)
```

if I remove the commented out sections from NIS+LDAPmapping.template then I get a complaint about the nisPlus container being not setup correctly.

```
ldap_add(0x887c0 (138.38.100.29),
"cn=group,ou=nisPlus,dc=maths,dc=bath,dc=ac,dc=uk") => 65 (Object class
violation)
which implies to me that the mapping is working for the group_table object.
```

I would be very grateful for any help as this has me climbing walls.

Thanks

Bob

The NIS+LDAPmapping file I am using is

SunManagers: NIS+LDAPmapping problem

```
root:nis # cat NIS+LDAPmapping.test | grep -v ^$ | grep -v ^#
nisplusLDAPdatabaseIdMapping passwd:passwd.org_dir
nisplusLDAPdatabaseIdMapping group:group.org_dir
nisplusLDAPdatabaseIdMapping auto_master:auto_master.org_dir
nisplusLDAPdatabaseIdMapping auto_home:auto_home.org_dir
nisplusLDAPdatabaseIdMapping bootparams:bootparams.org_dir
nisplusLDAPdatabaseIdMapping ethers:ethers.org_dir
nisplusLDAPdatabaseIdMapping hosts:[addr="[1-9]*.[1-9]*.[1-9]*.[1-9]*"]\
    hosts.org_dir
nisplusLDAPdatabaseIdMapping ipnodes:[addr="*:*" ]ipnodes.org_dir
nisplusLDAPdatabaseIdMapping credlocal:[auth_type=LOCAL]cred.org_dir
nisplusLDAPdatabaseIdMapping creduser:[auth_type="D*", \
    auth_name="unix.[0-9]*"]cred.org_dir
nisplusLDAPdatabaseIdMapping crednode:[auth_type="D*", \
    auth_name="unix.[a-z]*"]cred.org_dir
nisplusLDAPdatabaseIdMapping aliases:mail_aliases.org_dir
nisplusLDAPdatabaseIdMapping netgroup:netgroup.org_dir
nisplusLDAPdatabaseIdMapping networks:networks.org_dir
nisplusLDAPdatabaseIdMapping netmasks:netmasks.org_dir
nisplusLDAPdatabaseIdMapping protocols:protocols.org_dir
nisplusLDAPdatabaseIdMapping rpc:rpc.org_dir
nisplusLDAPdatabaseIdMapping services:services.org_dir
nisplusLDAPdatabaseIdMapping auth_attr:auth_attr.org_dir
nisplusLDAPdatabaseIdMapping exec_attr:exec_attr.org_dir
nisplusLDAPdatabaseIdMapping prof_attr:prof_attr.org_dir
nisplusLDAPdatabaseIdMapping user_attr:user_attr.org_dir
nisplusLDAPdatabaseIdMapping audit_user:audit_user.org_dir
nisplusLDAPentryTtl passwd:1800:3600:3600
nisplusLDAPentryTtl group:1800:3600:3600
nisplusLDAPentryTtl auto_master:1800:3600:3600
nisplusLDAPentryTtl auto_home:1800:3600:3600
nisplusLDAPentryTtl bootparams:1800:3600:3600
nisplusLDAPentryTtl ethers:1800:3600:3600
nisplusLDAPentryTtl hosts:1800:3600:3600
nisplusLDAPentryTtl ipnodes:1800:3600:3600
nisplusLDAPentryTtl credlocal:1800:3600:3600
nisplusLDAPentryTtl creduser:1800:3600:3600
nisplusLDAPentryTtl crednode:1800:3600:3600
nisplusLDAPentryTtl aliases:1800:3600:3600
nisplusLDAPentryTtl netgroup:1800:3600:3600
nisplusLDAPentryTtl networks:1800:3600:3600
nisplusLDAPentryTtl netmasks:1800:3600:3600
nisplusLDAPentryTtl protocols:1800:3600:3600
nisplusLDAPentryTtl rpc:1800:3600:3600
nisplusLDAPentryTtl services:1800:3600:3600
nisplusLDAPentryTtl auth_attr:1800:3600:3600
nisplusLDAPentryTtl exec_attr:1800:3600:3600
nisplusLDAPentryTtl prof_attr:1800:3600:3600
nisplusLDAPentryTtl user_attr:1800:3600:3600
nisplusLDAPentryTtl audit_user:1800:3600:3600
nisplusLDAPobjectDN passwd:ou=People,?one?objectClass=shadowAccount,\
```

SunManagers: NIS+LDAPmapping problem

```
objectClass=posixAccount:\
ou=People,?one?objectClass=shadowAccount,\
objectClass=posixAccount,\
objectClass=account,objectClass=top
nisplusLDAPObjectDN group:ou=Group,?one?objectClass=posixGroup:\
ou=Group,?one?objectClass=posixGroup,\
objectClass=top
nisplusLDAPObjectDN auto_master:automountmapname=auto_master,\
?one?objectClass=automount:\
automountmapname=auto_master,\
?one?objectClass=automount,\
objectClass=top
nisplusLDAPObjectDN auto_home:automountmapname=auto_home,\
?one?objectClass=automount:\
automountmapname=auto_home,\
?one?objectClass=automount,\
objectClass=top
nisplusLDAPObjectDN
bootparams:ou=Ethers,?one?objectClass=bootableDevice,\
bootParameter=*\
ou=Ethers,?one?objectClass=bootableDevice,\
objectClass=device,\
objectClass=top:\
dbid=bootparams_del
nisplusLDAPObjectDN ethers:ou=Ethers,?one?objectClass=ieee802Device,\
macAddress=*\
ou=Ethers,?one?objectClass=ieee802Device,\
objectClass=device,\
objectClass=top:\
dbid=ethers_del
nisplusLDAPObjectDN hosts:ou=Hosts,?one?objectClass=ipHost:\
ou=Hosts,?one?objectClass=ipHost,\
objectClass=device,objectClass=top
nisplusLDAPObjectDN ipnodes:ou=Hosts,?one?objectClass=ipHost:\
ou=Hosts,?one?objectClass=ipHost,\
objectClass=device,objectClass=top
nisplusLDAPObjectDN credlocal:ou=People,?one?objectClass=nisKeyObject
nisplusLDAPObjectDN creduser:ou=People,?one?objectClass=nisKeyObject:\
ou=People,?one?objectClass=nisKeyObject
nisplusLDAPObjectDN crednode:ou=Hosts,?one?objectClass=nisKeyObject:\
ou=Hosts,?one?objectClass=nisKeyObject
nisplusLDAPObjectDN aliases:ou=Aliases,?one?objectClass=mailGroup:\
ou=Aliases,?one?objectClass=mailGroup,\
objectClass=top
nisplusLDAPObjectDN netgroup:ou=Netgroup,?one?objectClass=nisNetgroup:\
ou=Netgroup,?one?objectClass=nisNetgroup,\
objectClass=top
nisplusLDAPObjectDN networks:ou=Networks,?one?objectClass=ipNetwork:\
ou=Networks,?one?objectClass=ipNetwork,\
objectClass=top
nisplusLDAPObjectDN netmasks:ou=Networks,?one?objectClass=ipNetwork,\
```

SunManagers: NIS+LDAPmapping problem

```
        ipNetMaskNumber=*\
ou=Networks,?one?objectClass=ipNetwork:\
        dbid=netmasks_del
nisplusLDAPObjectDN protocols:ou=Protocols,?one?objectClass=ipProtocol:\
        ou=Protocols,?one?objectClass=ipProtocol,\
        objectClass=top
nisplusLDAPObjectDN rpc:ou=Rpc,?one?objectClass=oncRpc:\

ou=Rpc,?one?objectClass=oncRpc,objectClass=top
nisplusLDAPObjectDN services:ou=Services,?one?objectClass=ipService:\
        ou=Services,?one?objectClass=ipService,\
        objectClass=top
nisplusLDAPObjectDN auth_attr:\

ou=SolarisAuthAttr,?one?objectClass=SolarisAuthAttr:\

ou=SolarisAuthAttr,?one?objectClass=SolarisAuthAttr,\
        objectClass=top
nisplusLDAPObjectDN exec_attr:\

ou=SolarisProfAttr,?one?objectClass=SolarisExecAttr,\
        SolarisKernelSecurityPolicy=*\

ou=SolarisProfAttr,?one?objectClass=SolarisExecAttr,\
        objectClass=SolarisProfAttr,\
        objectClass=top
nisplusLDAPObjectDN prof_attr:\

ou=SolarisProfAttr,?one?objectClass=SolarisProfAttr,\
        SolarisAttrLongDesc=*\

ou=SolarisProfAttr,?one?objectClass=SolarisProfAttr,\
        objectClass=SolarisExecAttr,\
        objectClass=top
nisplusLDAPObjectDN
user_attr:ou=People,?one?objectClass=SolarisUserAttr,\
        solarisAttrKeyValue=*\
        ou=People,?one?objectClass=SolarisUserAttr:\
        dbid=user_attr_del
nisplusLDAPObjectDN
audit_user:ou=People,?one?objectClass=SolarisAuditUser,\
        SolarisAuditAlways=*\
        SolarisAuditNever=*\

ou=People,?one?objectClass=SolarisAuditUser:\
        dbid=audit_user_del
nisplusLDAPAttributeFromColumn \
        passwd: dn=("uid=%s,", name), \
        cn=name, \
        uid=name, \
        userPassword=("{crypt}%s", passwd), \
```

SunManagers: NIS+LDAPmapping problem

```
uidNumber=uid, \
gidNumber=gid, \
gecos=gecos, \
homeDirectory=home, \
loginShell=shell, \
(shadowLastChange,shadowMin,shadowMax, \
shadowWarning,
shadowInactive,shadowExpire)=\
    (shadow, ":")
nisplusLDAPAttributeFromColumn \
    group: dn=("cn=%s,", name), \
        cn=name, \
        userPassword=("{crypt}%s", passwd), \
        gidNumber=gid, \
        (memberUid)=(members, ",")
nisplusLDAPAttributeFromColumn \
    auto_master: dn=("automountKey=%s,", key), \
        automountKey=key, \
        automountInformation=value
nisplusLDAPAttributeFromColumn \
    auto_home: dn=("automountKey=%s,", key), \
        automountKey=key, \
        automountInformation=value
nisplusLDAPAttributeFromColumn \
    bootparams: dn=("cn=%s,", key), \
        cn=key, \
        (bootParameter)=(value, " ")
nisplusLDAPAttributeFromColumn \
    bootparams_del: dn=("cn=%s,", key), \
        bootParameter=
nisplusLDAPAttributeFromColumn \
    ethers: dn=("cn=%s,", name), \
        macAddress=addr, \
        cn=name
nisplusLDAPAttributeFromColumn \
    ethers_del: dn=("cn=%s,", name), \
        macAddress=
nisplusLDAPAttributeFromColumn \
    hosts: dn=("cn=%s+ipHostNumber=%s,", cname,
addr), \
        cn=cname, \
        cn=name, \
        ipHostNumber=addr, \
        description=comment
nisplusLDAPAttributeFromColumn \
    ipnodes: dn=("cn=%s+ipHostNumber=%s,", cname,
addr), \
        cn=cname, \
        cn=name, \
        ipHostNumber=addr, \
        description=comment
```

SunManagers: NIS+LDAPmapping problem

```
nisplusLDAPAttributeFromColumn \  
    credlocal: dn=("uid=%s,", (cname, "%s.*")), \  
        uidNumber=auth_name, \  
        gidNumber=public_data  
nisplusLDAPAttributeFromColumn \  
    creduser: dn=("uid=%s,", (cname, "%s.*")), \  
        nisPublicKey=("{%s}%s", \  
            auth_type, public_data), \  
        nisSecretKey=("{%s}%s", \  
            auth_type, private_data)  
nisplusLDAPAttributeFromColumn \  
    crednode: dn=("cn=%s+ipHostNumber=%s,", \  
        (cname, "%s.*"), \  
        "ldap:ipHostNumber:?one?("cn=%s", (cname, \  
"%s.*"))), \  
        nisPublicKey=("{%s}%s", \  
            auth_type, public_data), \  
        nisSecretKey=("{%s}%s", \  
            auth_type, private_data)  
nisplusLDAPAttributeFromColumn \  
    aliases: dn=("mail=%s,", alias), \  
        cn=alias, \  
        mail=alias, \  
        (mgrprfc822mailmember)=(expansion, ",")  
nisplusLDAPAttributeFromColumn \  
    netgroup: dn=("cn=%s,", name), \  
        cn=name, \  
        memberNisNetgroup=group, \  
        nisNetgroupTriple=("(%s,%s,%s)", \  
            host, user,  
domain), \  
        description=comment  
nisplusLDAPAttributeFromColumn \  
    networks: dn=("ipNetworkNumber=%s,", addr), \  
        cn=cname, \  
        cn=name, \  
        ipNetworkNumber=addr, \  
        description=comment  
nisplusLDAPAttributeFromColumn \  
    netmasks: dn=("ipNetworkNumber=%s,", addr), \  
        ipNetworkNumber=addr, \  
        ipNetmaskNumber=mask, \  
        description=comment  
nisplusLDAPAttributeFromColumn \  
    netmasks_del: dn=("ipNetworkNumber=%s,", addr), \  
        ipNetmaskNumber=  
nisplusLDAPAttributeFromColumn \  
    protocols: dn=("cn=%s,", cname), \  
        cn=cname, \  
        cn=name, \  
        ipProtocolNumber=number, \  

```

SunManagers: NIS+LDAPmapping problem

```
        description=comment
nisplusLDAPAttributeFromColumn \
    rpc: dn=("cn=%s,", cname), \
        cn=cname, \
        cn=name, \
        oncRpcNumber=number, \
        description=comment
nisplusLDAPAttributeFromColumn \
    services: dn=("cn=%s+ipServiceProtocol=%s",\
        cname, proto), \
        cn=cname, \
        cn=name, \
        ipServiceProtocol=proto, \
        ipServicePort=port, \
        description=comment
nisplusLDAPAttributeFromColumn \
    auth_attr: dn=("cn=%s,", name), \
        cn=name, \
        SolarisAttrReserved1=res1, \
        SolarisAttrReserved2=res2, \
        SolarisAttrShortDesc=short_desc, \
        SolarisAttrLongDesc=long_desc, \
        SolarisAttrKeyValue=attr
nisplusLDAPAttributeFromColumn \
    exec_attr:
dn=("cn=%s+SolarisKernelSecurityPolicy=%s+SolarisProfileType=%s+SolarisProfileId=%s",
name, policy, type, id), \
    cn=name, \
    SolarisKernelSecurityPolicy=policy, \
    SolarisProfileType=type, \
    SolarisAttrReserved1=res1, \
    SolarisAttrReserved2=res2, \
    SolarisProfileId=id, \
    SolarisAttrKeyValue=attr
nisplusLDAPAttributeFromColumn \
    prof_attr: dn=("cn=%s,", name), \
        cn=name, \
        SolarisAttrReserved1=res1, \
        SolarisAttrReserved2=res2, \
        SolarisAttrLongDesc=desc, \
        SolarisAttrKeyValue=attr
nisplusLDAPAttributeFromColumn \
    user_attr: dn=("uid=%s,", name), \
        SolarisUserQualifier=qualifier, \
        SolarisAttrReserved1=res1, \
        SolarisAttrReserved2=res2, \
        SolarisAttrKeyValue=attr
nisplusLDAPAttributeFromColumn \
    audit_user: dn=("uid=%s,", name), \
        SolarisAuditAlways=always, \
        SolarisAuditNever=never
```

SunManagers: NIS+LDAPmapping problem

```
nisplusLDAPAttributeFromColumn \  
    user_attr_del: dn=("uid=%s", name), \  
        SolarisUserQualifier=, \  
        SolarisAttrReserved1=, \  
        SolarisAttrReserved2=, \  
        SolarisAttrKeyValue=  
nisplusLDAPAttributeFromColumn \  
    audit_user_del: dn=("uid=%s", name), \  
        SolarisAuditAlways=, \  
        SolarisAuditNever=  
nisplusLDAPcolumnFromAttribute \  
    passwd: name=uid, \  
        (" {crypt}%s", passwd)=userPassword, \  
        uid=uidNumber, \  
        gid=gidNumber, \  
        gcos=gecos, \  
        home=homeDirectory, \  
        shell=loginShell, \  
        shadow=( "%s:%s:%s:%s:%s:%s", \  
            shadowLastChange, \  
            shadowMin, \  
            shadowMax, \  
            shadowWarning, \  
            shadowInactive, \  
            shadowExpire)  
nisplusLDAPcolumnFromAttribute \  
    group: name=cn, \  
        (" {crypt}%s", passwd)=userPassword, \  
        gid=gidNumber, \  
        members=( "%s", (memberUid), ",")  
nisplusLDAPcolumnFromAttribute \  
    auto_master: key=automountKey, \  
        value=automountInformation  
nisplusLDAPcolumnFromAttribute \  
    auto_home: key=automountKey, \  
        value=automountInformation  
nisplusLDAPcolumnFromAttribute \  
    bootparams: key=cn, \  
        value=( "%s ", (bootParameter), " ")  
nisplusLDAPcolumnFromAttribute \  
    ethers: addr=macAddress, \  
        name=cn  
nisplusLDAPcolumnFromAttribute \  
    hosts: cname=cn, \  
        (name)=(cn), \  
        addr=ipHostNumber, \  
        comment=description  
nisplusLDAPcolumnFromAttribute \  
    ipnodes: cname=cn, \  
        (name)=(cn), \  
        addr=ipHostNumber, \  

```

SunManagers: NIS+LDAPmapping problem

```
comment=description
nisplusLDAPcolumnFromAttribute \
  credlocal: cname=("%s.%s", uid, \
    (nis+:zo_owner[]cred.org_dir, ".*.%s")), \
  auth_type=("LOCAL"), \
  auth_name=uidNumber, \
  public_data=gidNumber
nisplusLDAPcolumnFromAttribute \
  creduser: cname=("%s.%s", uid, \
    (nis+:zo_owner[]cred.org_dir, ".*.%s")), \
  auth_name=("unix.%s@%s", uidNumber, \
    (nis+:zo_owner[]cred.org_dir, ".*.%s")), \
  ("{%s}%s", auth_type, public_data)= \
    nisPublicKey, \
  ("{%s}%s", auth_type, private_data)= \
    nisSecretKey
nisplusLDAPcolumnFromAttribute \
  crednode: \
  cname=("%s.%s", cn, \
    (nis+:zo_owner[]cred.org_dir, ".*.%s")), \
  auth_name=("unix.%s@%s", cn, \
    (nis+:zo_owner[]cred.org_dir, ".*.%s")), \
  ("{%s}%s", auth_type, public_data)= \
    nisPublicKey, \
  ("{%s}%s", auth_type, private_data)= \
&
```