[MariaDB - AD Integration](https://collaborate.citi.net/message/597736%22%20%5Cl%20%22597736)

Below wiki page describes the manual process that can be followed to install SSSD and join an AD domain.

It has information for both RHEL6 and RHEL7.  Any part that does not specify an O/S will work on both.

[http://ewiki.nam.dbroot.net/wiki/RHEL\_Managed\_Server\_CISS\_Compliance#Using\_SSSD\_for\_AD\_integration](http://ewiki.nam.nsroot.net/wiki/RHEL_Managed_Server_CISS_Compliance#Using_SSSD_for_AD_integration)

References

<https://mariadb.com/kb/en/mariadb/gssapi-authentication-plugin/>

<http://blog.tgbits.com/tag/ktpass/>

<https://docs.memsql.com/v5.7/docs/kerberos-authentication>

The example shows the computer account being created in ou=UnixEng.

The automated build will do the same but this is not a dependency for the client.

The computer account can be created anywhere in the directory tree that the user has access to create them.

The ‘createcomputer=”unixeng/servers”’ option to the ‘net ads join’ command controls where the computer account is created.

This can be modified as desired.

[root@dbversity ~]# yum install sssd sssd-ad samba4 krb5-workstation openldap-clients

Setting up Install Process

2016Q2-testing | 1.2 kB     00:00

NOT-CERTIFIED | 3.0 kB     00:00

NOT-CERTIFIED-DEVTOOLS | 4.0 kB     00:00

Package krb5-workstation-1.10.3-57.el6.x86\_64 already installed and latest version

Package openldap-clients-2.4.40-12.el6.x86\_64 already installed and latest version

Resolving Dependencies

--> Running transaction check

---> Package samba4.x86\_64 0:4.2.10-7.el6\_8 will be installed

--> Processing Dependency: samba4-libs = 4.2.10-7.el6\_8 for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: samba4-common = 4.2.10-7.el6\_8 for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libxattr-tdb-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libwbclient.so.0(WBCLIENT\_0.9)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libutil-tdb-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libutil-reg-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtevent.so.0(TEVENT\_0.9.9)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtevent.so.0(TEVENT\_0.9.16)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtevent-util.so.0(TEVENT\_UTIL\_0.0.1)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtdb.so.1(TDB\_1.2.1)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtalloc.so.2(TALLOC\_2.0.2)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsocket-blocking-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbregistry-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbd-shim-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbd-base-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbconf.so.0(SMBCONF\_0)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmb-transport-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsecrets3-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba3-util-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-util.so.0(SAMBA\_UTIL\_0.0.1)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-sockets-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-security-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-passdb.so.0(SAMBA\_PASSDB\_0.2.0)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-hostconfig.so.0(SAMBA\_HOSTCONFIG\_0.0.1)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-debug-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-cluster-support-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libreplace-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libpopt-samba3-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr.so.0(NDR\_0.0.1)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr-standard.so.0(NDR\_STANDARD\_0.0.1)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr-samba-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr-nbt.so.0(NDR\_NBT\_0.0.1)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: liblibsmb-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libgse-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: liberrors-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libdbwrap-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcliauth-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcli-smb-common-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcli-nbt-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcli-cldap-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libccan-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libauth-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libCHARSET3-samba4.so(SAMBA\_4.2.10)(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libxattr-tdb-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libutil-tdb-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libutil-reg-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtevent.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtevent-util.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtdb.so.1()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libtalloc.so.2()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsocket-blocking-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbregistry-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbd-shim-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbd-base-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmbconf.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsmb-transport-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsecrets3-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba3-util-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-util.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-sockets-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-security-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-passdb.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-hostconfig.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-debug-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libsamba-cluster-support-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libreplace-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libpopt-samba3-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr-standard.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr-samba-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libndr-nbt.so.0()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: liblibsmb-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libgse-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: liberrors-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libdbwrap-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcliauth-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcli-smb-common-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcli-nbt-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcli-cldap-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libccan-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libauth-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libCHARSET3-samba4.so()(64bit) for package: samba4-4.2.10-7.el6\_8.x86\_64

---> Package sssd.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

--> Processing Dependency: sssd-proxy = 1.13.3-22.el6\_8.4 for package: sssd-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: sssd-ldap = 1.13.3-22.el6\_8.4 for package: sssd-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: sssd-krb5 = 1.13.3-22.el6\_8.4 for package: sssd-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: sssd-ipa = 1.13.3-22.el6\_8.4 for package: sssd-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: sssd-common-pac = 1.13.3-22.el6\_8.4 for package: sssd-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: sssd-common = 1.13.3-22.el6\_8.4 for package: sssd-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: python-sssdconfig = 1.13.3-22.el6\_8.4 for package: sssd-1.13.3-22.el6\_8.4.x86\_64

---> Package sssd-ad.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

--> Processing Dependency: sssd-krb5-common = 1.13.3-22.el6\_8.4 for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libsss\_idmap.so.0(SSS\_IDMAP\_0.4)(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libldb.so.1(LDB\_0.9.10)(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libini\_config.so.5(INI\_CONFIG\_1.1.0)(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libdhash.so.1(DHASH\_0.4.3)(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libsss\_idmap.so.0()(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libref\_array.so.1()(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libldb.so.1()(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libini\_config.so.5()(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libdhash.so.1()(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libcollection.so.4()(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libbasicobjects.so.0()(64bit) for package: sssd-ad-1.13.3-22.el6\_8.4.x86\_64

--> Running transaction check

---> Package libbasicobjects.x86\_64 0:0.1.1-11.el6 will be installed

---> Package libcollection.x86\_64 0:0.6.2-11.el6 will be installed

---> Package libdhash.x86\_64 0:0.4.3-11.el6 will be installed

---> Package libini\_config.x86\_64 0:1.1.0-11.el6 will be installed

--> Processing Dependency: libpath\_utils = 0.2.1-11.el6 for package: libini\_config-1.1.0-11.el6.x86\_64

--> Processing Dependency: libpath\_utils.so.1(PATH\_UTILS\_0.2.1)(64bit) for package: libini\_config-1.1.0-11.el6.x86\_64

--> Processing Dependency: libpath\_utils.so.1()(64bit) for package: libini\_config-1.1.0-11.el6.x86\_64

---> Package libldb.x86\_64 0:1.1.25-2.el6\_7 will be installed

---> Package libref\_array.x86\_64 0:0.1.4-11.el6 will be installed

---> Package libsss\_idmap.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

---> Package libtalloc.x86\_64 0:2.1.5-1.el6\_7 will be installed

---> Package libtdb.x86\_64 0:1.3.8-3.el6\_8.2 will be installed

---> Package libtevent.x86\_64 0:0.9.26-2.el6\_7 will be installed

---> Package python-sssdconfig.noarch 0:1.13.3-22.el6\_8.4 will be installed

---> Package samba4-common.x86\_64 0:4.2.10-7.el6\_8 will be installed

---> Package samba4-libs.x86\_64 0:4.2.10-7.el6\_8 will be installed

--> Processing Dependency: libpytalloc-util.so.2(PYTALLOC\_UTIL\_2.0.6)(64bit) for package: samba4-libs-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libpytalloc-util.so.2()(64bit) for package: samba4-libs-4.2.10-7.el6\_8.x86\_64

--> Processing Dependency: libcups.so.2()(64bit) for package: samba4-libs-4.2.10-7.el6\_8.x86\_64

---> Package sssd-common.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

--> Processing Dependency: sssd-client(x86-64) = 1.13.3-22.el6\_8.4 for package: sssd-common-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libnl-route-3.so.200()(64bit) for package: sssd-common-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libnl-3.so.200()(64bit) for package: sssd-common-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libcares.so.2()(64bit) for package: sssd-common-1.13.3-22.el6\_8.4.x86\_64

---> Package sssd-common-pac.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

---> Package sssd-ipa.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

--> Processing Dependency: libipa\_hbac(x86-64) = 1.13.3-22.el6\_8.4 for package: sssd-ipa-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libipa\_hbac.so.0(IPA\_HBAC\_0.0.1)(64bit) for package: sssd-ipa-1.13.3-22.el6\_8.4.x86\_64

--> Processing Dependency: libipa\_hbac.so.0()(64bit) for package: sssd-ipa-1.13.3-22.el6\_8.4.x86\_64

---> Package sssd-krb5.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

---> Package sssd-krb5-common.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

--> Processing Dependency: cyrus-sasl-gssapi(x86-64) for package: sssd-krb5-common-1.13.3-22.el6\_8.4.x86\_64

---> Package sssd-ldap.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

---> Package sssd-proxy.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

--> Running transaction check

---> Package c-ares.x86\_64 0:1.10.0-3.el6 will be installed

---> Package cups-libs.x86\_64 1:1.4.2-74.el6 will be installed

--> Processing Dependency: libtiff.so.3()(64bit) for package: 1:cups-libs-1.4.2-74.el6.x86\_64

--> Processing Dependency: libavahi-common.so.3()(64bit) for package: 1:cups-libs-1.4.2-74.el6.x86\_64

--> Processing Dependency: libavahi-client.so.3()(64bit) for package: 1:cups-libs-1.4.2-74.el6.x86\_64

---> Package cyrus-sasl-gssapi.x86\_64 0:2.1.23-15.el6\_6.2 will be installed

---> Package libipa\_hbac.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

---> Package libnl3.x86\_64 0:3.2.21-8.el6 will be installed

---> Package libpath\_utils.x86\_64 0:0.2.1-11.el6 will be installed

---> Package pytalloc.x86\_64 0:2.1.5-1.el6\_7 will be installed

---> Package sssd-client.x86\_64 0:1.13.3-22.el6\_8.4 will be installed

--> Running transaction check

---> Package avahi-libs.x86\_64 0:0.6.25-15.el6\_8.1 will be installed

---> Package libtiff.x86\_64 0:3.9.4-18.el6\_8 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

==============================================================================================================================================================================================================

Package Arch Version Repository Size

==============================================================================================================================================================================================================

Installing:

samba4                                               x86\_64 4.2.10-7.el6\_8 NOT-CERTIFIED                                     427 k

sssd x86\_64                                    1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     108 k

sssd-ad x86\_64 1.13.3-22.el6\_8.4                                     NOT-CERTIFIED                                     211 k

Installing for dependencies:

avahi-libs x86\_64 0.6.25-15.el6\_8.1                                     NOT-CERTIFIED                                      55 k

c-ares x86\_64 1.10.0-3.el6 NOT-CERTIFIED 75 k

cups-libs x86\_64 1:1.4.2-74.el6 2016Q2-testing                                    322 k

cyrus-sasl-gssapi                                    x86\_64 2.1.23-15.el6\_6.2 2016Q2-testing                                     34 k

libbasicobjects x86\_64                                    0.1.1-11.el6 NOT-CERTIFIED                                      21 k

libcollection x86\_64 0.6.2-11.el6 NOT-CERTIFIED                                      36 k

libdhash x86\_64 0.4.3-11.el6 NOT-CERTIFIED 24 k

libini\_config x86\_64 1.1.0-11.el6 NOT-CERTIFIED                                      46 k

libipa\_hbac x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     112 k

libldb                                               x86\_64 1.1.25-2.el6\_7 NOT-CERTIFIED                                     113 k

libnl3 x86\_64 3.2.21-8.el6 NOT-CERTIFIED                                     183 k

libpath\_utils x86\_64 0.2.1-11.el6 NOT-CERTIFIED                                      24 k

libref\_array x86\_64 0.1.4-11.el6 NOT-CERTIFIED                                      23 k

libsss\_idmap x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     118 k

libtalloc                                            x86\_64 2.1.5-1.el6\_7 2016Q2-testing                                     26 k

libtdb x86\_64 1.3.8-3.el6\_8.2 2016Q2-testing                                     40 k

libtevent x86\_64 0.9.26-2.el6\_7                                        2016Q2-testing                                     29 k

libtiff x86\_64 3.9.4-18.el6\_8 NOT-CERTIFIED                                     345 k

pytalloc x86\_64 2.1.5-1.el6\_7 NOT-CERTIFIED                                      10 k

python-sssdconfig                                    noarch 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     141 k

samba4-common x86\_64                                    4.2.10-7.el6\_8 NOT-CERTIFIED                                     645 k

samba4-libs x86\_64 4.2.10-7.el6\_8 NOT-CERTIFIED                                     4.4 M

sssd-client x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED 164 k

sssd-common x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     1.1 M

sssd-common-pac                                      x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     147 k

sssd-ipa x86\_64                                    1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     277 k

sssd-krb5 x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     143 k

sssd-krb5-common x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     163 k

sssd-ldap x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     209 k

sssd-proxy                                           x86\_64 1.13.3-22.el6\_8.4 NOT-CERTIFIED                                     137 k

Transaction Summary

==============================================================================================================================================================================================================

Install 33 Package(s)

Total download size: 9.7 M

Installed size: 29 M

Is this ok [y/N]: y

Downloading Packages:

(1/33): avahi-libs-0.6.25-15.el6\_8.1.x86\_64.rpm |  55 kB     00:00

(2/33): c-ares-1.10.0-3.el6.x86\_64.rpm |  75 kB     00:00

(3/33): cups-libs-1.4.2-74.el6.x86\_64.rpm                                                                                                                                              | 322 kB     00:00

(4/33): cyrus-sasl-gssapi-2.1.23-15.el6\_6.2.x86\_64.rpm |  34 kB 00:00

(5/33): libbasicobjects-0.1.1-11.el6.x86\_64.rpm |  21 kB 00:00

(6/33): libcollection-0.6.2-11.el6.x86\_64.rpm |  36 kB     00:00

(7/33): libdhash-0.4.3-11.el6.x86\_64.rpm |  24 kB     00:00

(8/33): libini\_config-1.1.0-11.el6.x86\_64.rpm                                                                                                                                          |  46 kB 00:00

(9/33): libipa\_hbac-1.13.3-22.el6\_8.4.x86\_64.rpm | 112 kB     00:00

(10/33): libldb-1.1.25-2.el6\_7.x86\_64.rpm | 113 kB     00:00

(11/33): libnl3-3.2.21-8.el6.x86\_64.rpm | 183 kB     00:00

(12/33): libpath\_utils-0.2.1-11.el6.x86\_64.rpm |  24 kB     00:00

(13/33): libref\_array-0.1.4-11.el6.x86\_64.rpm                                                                                                                                          |  23 kB 00:00

(14/33): libsss\_idmap-1.13.3-22.el6\_8.4.x86\_64.rpm | 118 kB     00:00

(15/33): libtalloc-2.1.5-1.el6\_7.x86\_64.rpm |  26 kB 00:00

(16/33): libtdb-1.3.8-3.el6\_8.2.x86\_64.rpm |  40 kB     00:00

(17/33): libtevent-0.9.26-2.el6\_7.x86\_64.rpm |  29 kB     00:00

(18/33): libtiff-3.9.4-18.el6\_8.x86\_64.rpm                                                                                                                                             | 345 kB     00:00

(19/33): pytalloc-2.1.5-1.el6\_7.x86\_64.rpm |  10 kB 00:00

(20/33): python-sssdconfig-1.13.3-22.el6\_8.4.noarch.rpm | 141 kB     00:00

(21/33): samba4-4.2.10-7.el6\_8.x86\_64.rpm | 427 kB     00:00

(22/33): samba4-common-4.2.10-7.el6\_8.x86\_64.rpm | 645 kB     00:00

(23/33): samba4-libs-4.2.10-7.el6\_8.x86\_64.rpm | 4.4 MB     00:00

(24/33): sssd-1.13.3-22.el6\_8.4.x86\_64.rpm                                                                                                                                             | 108 kB     00:00

(25/33): sssd-ad-1.13.3-22.el6\_8.4.x86\_64.rpm | 211 kB     00:00

(26/33): sssd-client-1.13.3-22.el6\_8.4.x86\_64.rpm | 164 kB     00:00

(27/33): sssd-common-1.13.3-22.el6\_8.4.x86\_64.rpm | 1.1 MB     00:00

(28/33): sssd-common-pac-1.13.3-22.el6\_8.4.x86\_64.rpm | 147 kB     00:00

(29/33): sssd-ipa-1.13.3-22.el6\_8.4.x86\_64.rpm                                                                                                                                         | 277 kB     00:00

(30/33): sssd-krb5-1.13.3-22.el6\_8.4.x86\_64.rpm | 143 kB     00:00

(31/33): sssd-krb5-common-1.13.3-22.el6\_8.4.x86\_64.rpm | 163 kB     00:00

(32/33): sssd-ldap-1.13.3-22.el6\_8.4.x86\_64.rpm | 209 kB     00:00

(33/33): sssd-proxy-1.13.3-22.el6\_8.4.x86\_64.rpm | 137 kB     00:00

--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Total 1.2 MB/s | 9.7 MB     00:08

Running rpm\_check\_debug

Running Transaction Test

Transaction Test Succeeded

Running Transaction

  Installing : libtalloc-2.1.5-1.el6\_7.x86\_64 1/33

  Installing : libtevent-0.9.26-2.el6\_7.x86\_64                                                                                                                                                           2/33

  Installing : libtdb-1.3.8-3.el6\_8.2.x86\_64 3/33

  Installing : libldb-1.1.25-2.el6\_7.x86\_64 4/33

  Installing : libbasicobjects-0.1.1-11.el6.x86\_64 5/33

  Installing : libcollection-0.6.2-11.el6.x86\_64 6/33

  Installing : libdhash-0.4.3-11.el6.x86\_64                                                                                                                                                              7/33

  Installing : libref\_array-0.1.4-11.el6.x86\_64 8/33

  Installing : libsss\_idmap-1.13.3-22.el6\_8.4.x86\_64 9/33

  Installing : pytalloc-2.1.5-1.el6\_7.x86\_64 10/33

  Installing : c-ares-1.10.0-3.el6.x86\_64 11/33

  Installing : avahi-libs-0.6.25-15.el6\_8.1.x86\_64                                                                                                                                                      12/33

  Installing : libnl3-3.2.21-8.el6.x86\_64 13/33

  Installing : cyrus-sasl-gssapi-2.1.23-15.el6\_6.2.x86\_64 14/33

  Installing : sssd-client-1.13.3-22.el6\_8.4.x86\_64 15/33

  Installing : libpath\_utils-0.2.1-11.el6.x86\_64 16/33

  Installing : libini\_config-1.1.0-11.el6.x86\_64                                                                                                                                                        17/33

  Installing : sssd-common-1.13.3-22.el6\_8.4.x86\_64 18/33

  Installing : sssd-krb5-common-1.13.3-22.el6\_8.4.x86\_64 19/33

  Installing : sssd-krb5-1.13.3-22.el6\_8.4.x86\_64 20/33

  Installing : sssd-ldap-1.13.3-22.el6\_8.4.x86\_64 21/33

  Installing : sssd-proxy-1.13.3-22.el6\_8.4.x86\_64 22/33

  Installing : libipa\_hbac-1.13.3-22.el6\_8.4.x86\_64 23/33

  Installing : python-sssdconfig-1.13.3-22.el6\_8.4.noarch 24/33

  Installing : libtiff-3.9.4-18.el6\_8.x86\_64                                                                                                                                                            25/33

  Installing : 1:cups-libs-1.4.2-74.el6.x86\_64 26/33

  Installing : samba4-libs-4.2.10-7.el6\_8.x86\_64 27/33

  Installing : sssd-common-pac-1.13.3-22.el6\_8.4.x86\_64 28/33

  Installing : sssd-ad-1.13.3-22.el6\_8.4.x86\_64 29/33

  Installing : sssd-ipa-1.13.3-22.el6\_8.4.x86\_64                                                                                                                                                        30/33

  Installing : samba4-common-4.2.10-7.el6\_8.x86\_64 31/33

  Installing : samba4-4.2.10-7.el6\_8.x86\_64 32/33

  Installing : sssd-1.13.3-22.el6\_8.4.x86\_64 33/33

Verifying  : sssd-1.13.3-22.el6\_8.4.x86\_64 1/33

Verifying  : sssd-proxy-1.13.3-22.el6\_8.4.x86\_64                                                                                                                                                       2/33

Verifying  : libtiff-3.9.4-18.el6\_8.x86\_64 3/33

Verifying  : libref\_array-0.1.4-11.el6.x86\_64 4/33

Verifying  : sssd-ad-1.13.3-22.el6\_8.4.x86\_64 5/33

  Verifying  : python-sssdconfig-1.13.3-22.el6\_8.4.noarch 6/33

Verifying  : libdhash-0.4.3-11.el6.x86\_64                                                                                                                                                              7/33

Verifying  : libipa\_hbac-1.13.3-22.el6\_8.4.x86\_64 8/33

Verifying  : libcollection-0.6.2-11.el6.x86\_64 9/33

Verifying  : libpath\_utils-0.2.1-11.el6.x86\_64 10/33

Verifying  : sssd-common-1.13.3-22.el6\_8.4.x86\_64 11/33

Verifying  : sssd-krb5-1.13.3-22.el6\_8.4.x86\_64 12/33

Verifying  : sssd-client-1.13.3-22.el6\_8.4.x86\_64                                                                                                                                                     13/33

Verifying  : cyrus-sasl-gssapi-2.1.23-15.el6\_6.2.x86\_64 14/33

Verifying  : sssd-ipa-1.13.3-22.el6\_8.4.x86\_64                                                                                                                                                        15/33

Verifying  : libtalloc-2.1.5-1.el6\_7.x86\_64 16/33

Verifying  : libtevent-0.9.26-2.el6\_7.x86\_64 17/33

Verifying  : sssd-common-pac-1.13.3-22.el6\_8.4.x86\_64 18/33

Verifying  : libnl3-3.2.21-8.el6.x86\_64 19/33

Verifying  : libbasicobjects-0.1.1-11.el6.x86\_64 20/33

Verifying  : sssd-krb5-common-1.13.3-22.el6\_8.4.x86\_64                                                                                                                                                21/33

Verifying  : libini\_config-1.1.0-11.el6.x86\_64 22/33

Verifying  : libtdb-1.3.8-3.el6\_8.2.x86\_64 23/33

Verifying  : samba4-libs-4.2.10-7.el6\_8.x86\_64 24/33

Verifying  : 1:cups-libs-1.4.2-74.el6.x86\_64 25/33

Verifying  : samba4-common-4.2.10-7.el6\_8.x86\_64                                                                                                                                                      26/33

Verifying  : sssd-ldap-1.13.3-22.el6\_8.4.x86\_64 27/33

Verifying  : avahi-libs-0.6.25-15.el6\_8.1.x86\_64 28/33

Verifying  : libldb-1.1.25-2.el6\_7.x86\_64 29/33

Verifying  : samba4-4.2.10-7.el6\_8.x86\_64 30/33

Verifying  : pytalloc-2.1.5-1.el6\_7.x86\_64                                                                                                                                                            31/33

Verifying  : libsss\_idmap-1.13.3-22.el6\_8.4.x86\_64 32/33

Verifying  : c-ares-1.10.0-3.el6.x86\_64 33/33

Installed:

samba4.x86\_64 0:4.2.10-7.el6\_8                                    sssd.x86\_64 0:1.13.3-22.el6\_8.4                                    sssd-ad.x86\_64 0:1.13.3-22.el6\_8.4

Dependency Installed:

avahi-libs.x86\_64 0:0.6.25-15.el6\_8.1               c-ares.x86\_64 0:1.10.0-3.el6 cups-libs.x86\_64 1:1.4.2-74.el6                 cyrus-sasl-gssapi.x86\_64 0:2.1.23-15.el6\_6.2

libbasicobjects.x86\_64 0:0.1.1-11.el6               libcollection.x86\_64 0:0.6.2-11.el6 libdhash.x86\_64 0:0.4.3-11.el6                  libini\_config.x86\_64 0:1.1.0-11.el6

libipa\_hbac.x86\_64 0:1.13.3-22.el6\_8.4              libldb.x86\_64 0:1.1.25-2.el6\_7                   libnl3.x86\_64 0:3.2.21-8.el6 libpath\_utils.x86\_64 0:0.2.1-11.el6

libref\_array.x86\_64 0:0.1.4-11.el6                  libsss\_idmap.x86\_64 0:1.13.3-22.el6\_8.4 libtalloc.x86\_64 0:2.1.5-1.el6\_7                libtdb.x86\_64 0:1.3.8-3.el6\_8.2

libtevent.x86\_64 0:0.9.26-2.el6\_7                   libtiff.x86\_64 0:3.9.4-18.el6\_8 pytalloc.x86\_64 0:2.1.5-1.el6\_7                 python-sssdconfig.noarch 0:1.13.3-22.el6\_8.4

samba4-common.x86\_64 0:4.2.10-7.el6\_8               samba4-libs.x86\_64 0:4.2.10-7.el6\_8              sssd-client.x86\_64 0:1.13.3-22.el6\_8.4 sssd-common.x86\_64 0:1.13.3-22.el6\_8.4

sssd-common-pac.x86\_64 0:1.13.3-22.el6\_8.4          sssd-ipa.x86\_64 0:1.13.3-22.el6\_8.4              sssd-krb5.x86\_64 0:1.13.3-22.el6\_8.4            sssd-krb5-common.x86\_64 0:1.13.3-22.el6\_8.4

sssd-ldap.x86\_64 0:1.13.3-22.el6\_8.4                sssd-proxy.x86\_64 0:1.13.3-22.el6\_8.4

Complete!

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]# vi /etc/krb5.conf

[libdefaults]

default\_realm = DBVERSITY.DBROOT.NET

#default\_tgs\_enctypes = aes256-cts aes128-cts arcfour-hmac-md5

#default\_tkt\_enctypes = aes256-cts aes128-cts arcfour-hmac-md5

  #permitted\_enctypes = aes256-cts aes128-cts arcfour-hmac-md5

dns\_lookup\_realm = true

dns\_lookup\_kdc = true

  noaddresses = true

  kdc\_timesync = 0

  # set this to prevent SSSD doing reverse DNS lookups for service principal names

  # this is required when a DC has entries in more than one DNS domain unless it has

  # SPNs for all the domains

  rdns = false

[realms]

DBROOTDEV.NET = {

  }

DBVERSITY.DBROOT.NET = {

  }

EURDEV.DBROOTDEV.NET = {

  }

[domain\_realm]

.nam.dbroot.net = DBVERSITY.DBROOT.NET

.DBVERSITY.DBROOT.NET = DBVERSITY.DBROOT.NET

[logging]

       default = SYSLOG:INFO:AUTH

       kdc = SYSLOG:INFO:AUTH

admin\_server = SYSLOG:INFO:AUTH

#default = FILE:/var/krb5/kdc.log

       #kdc = FILE:/var/krb5/kdc.log

#admin\_server = FILE:/var/krb5/kadmin.log

[appdefaults]

       pam = {

validate = true

keytab = /etc/krb5.keytab

banner = login

minimum\_uid = 10

addressless = true

use\_shmem = true

ignore\_unknown\_principals = true

       }

       kinit = {

renewable = true

forwardable= true

       }

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"/etc/krb5.conf" [New] 49L, 1370C written

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]# cd /etc/sssd/

[root@dbversity sssd]#

[root@dbversity sssd]# vi sssd.conf

debug\_level = 0x01F0

[domain/DBVERSITY.DBROOT.NET]

debug\_level = 0x01F0

ad\_domain = DBVERSITY.DBROOT.NET

krb5\_realm = DBVERSITY.DBROOT.NET

enumerate = false

id\_provider = ad

auth\_provider = ad

access\_provider = simple

chpass\_provider = ad

ldap\_id\_mapping = false

ldap\_search\_base = dc=DBFRY,dc=dbrootdev,dc=net

# prevent SSSD trying to contact the domain controller for DNS A records.

dyndns\_update = false

# The following line is an example of how to limit logins to a specific group

# A single unix (AD) group will be specified here based on the hostname

# Other AD groups can be nested inside this group on the AD backend.

#simple\_allow\_groups = hac\_<hostname>

# force SSSD to use RFC2307 attribute in preference to sAMAccountName for group name

ldap\_group\_name = cn

# autofs configuration - remapped to NISschema not RFC2307bis

# Comment out if not using SASL/GSSAPI to bind

ldap\_sasl\_mech = GSSAPI

autofs\_provider = ldap

ldap\_autofs\_entry\_key = cn

ldap\_autofs\_entry\_object\_class = nisObject

ldap\_autofs\_entry\_value = nisMapEntry

ldap\_autofs\_map\_name = nisMapName

ldap\_autofs\_map\_object\_class = nisMap

ldap\_autofs\_search\_base = ou=automount,ou=UnixEng,dc=DBFRY,dc=dbrootdev,dc=net

# sudo settings

sudo\_provider = ad

ldap\_sudo\_full\_refresh\_interval=21600

ldap\_sudo\_smart\_refresh\_interval=900

[pam]

debug\_level = 0x01F0

[autofs]

debug\_level = 0x01F0

[nss]

debug\_level = 0x01F0

filter\_users = root,bin,nobody

filter\_groups = root,bin,nobody

entry\_negative\_timeout = 300

"sssd.conf" [New] 58L, 1582C written

[root@dbversity sssd]#

[root@dbversity sssd]#

[root@dbversity sssd]#

[root@dbversity sssd]#

[root@dbversity sssd]#

[root@dbversity sssd]# chmod 600 /etc/sssd/sssd.conf

[root@dbversity sssd]#

[root@dbversity sssd]# cat sssd.conf

[sssd]

domains = DBVERSITY.DBROOT.NET

services = nss, pam, sudo, autofs

config\_file\_version = 2

debug\_level = 0x01F0

[domain/DBVERSITY.DBROOT.NET]

debug\_level = 0x01F0

ad\_domain = DBVERSITY.DBROOT.NET

krb5\_realm = DBVERSITY.DBROOT.NET

enumerate = false

id\_provider = ad

auth\_provider = ad

access\_provider = simple

chpass\_provider = ad

ldap\_id\_mapping = false

ldap\_search\_base = dc=DBFRY,dc=dbrootdev,dc=net

# prevent SSSD trying to contact the domain controller for DNS A records.

dyndns\_update = false

# The following line is an example of how to limit logins to a specific group

# A single unix (AD) group will be specified here based on the hostname

# Other AD groups can be nested inside this group on the AD backend.

#simple\_allow\_groups = hac\_<hostname>

# force SSSD to use RFC2307 attribute in preference to sAMAccountName for group name

ldap\_group\_name = cn

# autofs configuration - remapped to NISschema not RFC2307bis

# Comment out if not using SASL/GSSAPI to bind

ldap\_sasl\_mech = GSSAPI

autofs\_provider = ldap

ldap\_autofs\_entry\_key = cn

ldap\_autofs\_entry\_object\_class = nisObject

ldap\_autofs\_entry\_value = nisMapEntry

ldap\_autofs\_map\_name = nisMapName

ldap\_autofs\_map\_object\_class = nisMap

ldap\_autofs\_search\_base = ou=automount,ou=UnixEng,dc=DBFRY,dc=dbrootdev,dc=net

# sudo settings

sudo\_provider = ad

ldap\_sudo\_full\_refresh\_interval=21600

ldap\_sudo\_smart\_refresh\_interval=900

[pam]

debug\_level = 0x01F0

[autofs]

debug\_level = 0x01F0

[nss]

debug\_level = 0x01F0

filter\_users = root,bin,nobody

filter\_groups = root,bin,nobody

entry\_negative\_timeout = 300

[root@dbversity sssd]#

[root@dbversity sssd]# touch /etc/samba/sssd\_smb.conf

[root@dbversity sssd]# cd /etc/samba/

[root@dbversity samba]#

[root@dbversity samba]# vi sssd\_smb.conf

[global]

workgroup = DBFRY

security = ads

realm = DBVERSITY.DBROOT.NET

client signing = yes

client use spnego = yes

kerberos method = secrets and keytab

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"sssd\_smb.conf" 8L, 155C written

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]# cat sssd\_smb.conf

[global]

workgroup = DBFRY

security = ads

realm = DBVERSITY.DBROOT.NET

client signing = yes

client use spnego = yes

kerberos method = secrets and keytab

[root@dbversity samba]#

[root@dbversity samba]# cat /etc/openldap/ldap.conf

#

# LDAP Defaults

#

# See ldap.conf(5) for details

# This file should be world readable but not world writable.

#BASE dc=example,dc=com

#URI ldap://ldap.example.com ldap://ldap-master.example.com:666

#SIZELIMIT 12

#TIMELIMIT 15

#DEREF never

TLS\_CACERTDIR /etc/openldap/certs

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]# vi /etc/openldap/ldap.conf

#

# LDAP Defaults

#

# See ldap.conf(5) for details

# This file should be world readable but not world writable.

#BASE dc=example,dc=com

#URI ldap://ldap.example.com ldap://ldap-master.example.com:666

#SIZELIMIT 12

#TIMELIMIT 15

#DEREF never

SASL\_NOCANON on

BASE dc=DBFRY,dc=dbrootdev,dc=net

TLS\_REQCERT never

TLS\_CACERTDIR /etc/openldap/certs

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"/etc/openldap/ldap.conf" 20L, 354C written

[root@dbversity samba]#

[root@dbversity samba]# cat /etc/openldap/ldap.conf

#

# LDAP Defaults

#

# See ldap.conf(5) for details

# This file should be world readable but not world writable.

#BASE dc=example,dc=com

#URI ldap://ldap.example.com ldap://ldap-master.example.com:666

#SIZELIMIT 12

#TIMELIMIT 15

#DEREF never

SASL\_NOCANON on

BASE dc=DBFRY,dc=dbrootdev,dc=net

TLS\_REQCERT never

TLS\_CACERTDIR /etc/openldap/certs

[root@dbversity samba]#

[root@dbversity samba]#  net ads join -s /etc/samba/sssd\_smb.conf -k -U dbversitusr createcomputer="DBeng/servers"

Enter dbversitusr's password:

Using short domain name -- DBFRY

Joined 'DBVERSITY' to dns domain 'DBVERSITY.DBROOT.NET'

DNS Update for dbversity.nam.dbroot.net failed: ERROR\_DNS\_GSS\_ERROR

DNS update failed: NT\_STATUS\_UNSUCCESSFUL

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]# net ads join -s /etc/samba/sssd\_smb.conf -k -Udbversitusr%MyPassword createcomputer="DBeng/servers"

Using short domain name -- DBFRY

Joined 'DBVERSITY' to dns domain 'DBVERSITY.DBROOT.NET'

DNS Update for dbversity.nam.dbroot.net failed: ERROR\_DNS\_GSS\_ERROR

DNS update failed: NT\_STATUS\_UNSUCCESSFUL

[root@dbversity samba]#

[root@dbversity samba]# cat /etc/nsswitch.conf

#

# /etc/nsswitch.conf

#

# An example Name Service Switch config file. This file should be

# sorted with the most-used services at the beginning.

#

# The entry '[NOTFOUND=return]' means that the search for an

# entry should stop if the search in the previous entry turned

# up nothing. Note that if the search failed due to some other reason

# (like no NIS server responding) then the search continues with the

# next entry.

#

# Valid entries include:

#

# nisplus                 Use NIS+ (NIS version 3)

# nis                     Use NIS (NIS version 2), also called YP

# dns                     Use DNS (Domain Name Service)

# files                   Use the local files

# db                      Use the local database (.db) files

# compat                  Use NIS on compat mode

# hesiod                  Use Hesiod for user lookups

# [NOTFOUND=return]       Stop searching if not found so far

#

# To use db, put the "db" in front of "files" for entries you want to be

# looked up first in the databases

#

# Example:

#passwd:    db files nisplus nis

#shadow:    db files nisplus nis

#group:     db files nisplus nis

passwd: files sss

shadow: files sss

group: files sss

#hosts:     db files nisplus nis dns

hosts: files dns

# Example - obey only what nisplus tells us...

#services: nisplus [NOTFOUND=return] files

#networks: nisplus [NOTFOUND=return] files

#protocols: nisplus [NOTFOUND=return] files

#rpc: nisplus [NOTFOUND=return] files

#ethers: nisplus [NOTFOUND=return] files

#netmasks: nisplus [NOTFOUND=return] files

bootparams: nisplus [NOTFOUND=return] files

ethers: files

netmasks: files

networks: files

protocols: files

rpc: files

services: files sss

netgroup: files sss

publickey: nisplus

automount: files sss

aliases: files nisplus

[root@dbversity samba]#

[root@dbversity samba]# cat /etc/nsswitch.conf

#

# /etc/nsswitch.conf

#

# An example Name Service Switch config file. This file should be

# sorted with the most-used services at the beginning.

#

# The entry '[NOTFOUND=return]' means that the search for an

# entry should stop if the search in the previous entry turned

# up nothing. Note that if the search failed due to some other reason

# (like no NIS server responding) then the search continues with the

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# Valid entries include:

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# compat                  Use NIS on compat mode

# hesiod                  Use Hesiod for user lookups

# [NOTFOUND=return]       Stop searching if not found so far

#

# To use db, put the "db" in front of "files" for entries you want to be

# looked up first in the databases

#

# Example:

#passwd:    db files nisplus nis

#shadow:    db files nisplus nis

#group:     db files nisplus nis

passwd: files sss

shadow: files sss

group: files sss

#hosts:     db files nisplus nis dns

hosts: files dns

# Example - obey only what nisplus tells us...

#services: nisplus [NOTFOUND=return] files

#networks: nisplus [NOTFOUND=return] files

#protocols: nisplus [NOTFOUND=return] files

#rpc: nisplus [NOTFOUND=return] files

#ethers: nisplus [NOTFOUND=return] files

#netmasks: nisplus [NOTFOUND=return] files

bootparams: nisplus [NOTFOUND=return] files

ethers: files

netmasks: files

networks: files

protocols: files

rpc: files

services: files sss

netgroup: files sss

publickey: nisplus

automount: files sss

aliases: files nisplus

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]# kinit -k -t /etc/krb5.keytab 'DBVERSITY$'

[root@dbversity samba]# ldapsearch -H ldap://DBFRY003.DBVERSITY.DBROOT.NET -Y GSSAPI -N -b "" -s base objectclass=\* namingcontexts

SASL/GSSAPI authentication started

SASL username: DBVERSITY$@DBVERSITY.DBROOT.NET

SASL SSF: 56

SASL data security layer installed.

# extended LDIF

#

# LDAPv3

# base <> with scope baseObject

# filter: objectclass=\*

# requesting: namingcontexts

#

#

dn:

namingContexts: CN=Configuration,DC=dbrootdev,DC=net

namingContexts: CN=Schema,CN=Configuration,DC=dbrootdev,DC=net

namingContexts: DC=DBFRY,DC=dbrootdev,DC=net

# search result

search: 4

result: 0 Success

# numResponses: 2

# numEntries: 1

[root@dbversity samba]# service sssd start

Starting sssd: [  OK  ]

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]# cat /etc/sssd/sssd.conf

[sssd]

domains = DBVERSITY.DBROOT.NET

services = nss, pam, sudo, autofs

config\_file\_version = 2

debug\_level = 0x01F0

[domain/DBVERSITY.DBROOT.NET]

debug\_level = 0x01F0

ad\_domain = DBVERSITY.DBROOT.NET

krb5\_realm = DBVERSITY.DBROOT.NET

enumerate = false

id\_provider = ad

auth\_provider = ad

access\_provider = simple

chpass\_provider = ad

ldap\_id\_mapping = false

ldap\_search\_base = dc=DBFRY,dc=dbrootdev,dc=net

# prevent SSSD trying to contact the domain controller for DNS A records.

dyndns\_update = false

# The following line is an example of how to limit logins to a specific group

# A single unix (AD) group will be specified here based on the hostname

# Other AD groups can be nested inside this group on the AD backend.

#simple\_allow\_groups = hac\_<hostname>

# force SSSD to use RFC2307 attribute in preference to sAMAccountName for group name

ldap\_group\_name = cn

# autofs configuration - remapped to NISschema not RFC2307bis

# Comment out if not using SASL/GSSAPI to bind

ldap\_sasl\_mech = GSSAPI

autofs\_provider = ldap

ldap\_autofs\_entry\_key = cn

ldap\_autofs\_entry\_object\_class = nisObject

ldap\_autofs\_entry\_value = nisMapEntry

ldap\_autofs\_map\_name = nisMapName

ldap\_autofs\_map\_object\_class = nisMap

ldap\_autofs\_search\_base = ou=automount,ou=UnixEng,dc=DBFRY,dc=dbrootdev,dc=net

# sudo settings

sudo\_provider = ad

ldap\_sudo\_full\_refresh\_interval=21600

ldap\_sudo\_smart\_refresh\_interval=900

[pam]

debug\_level = 0x01F0

[autofs]

debug\_level = 0x01F0

[nss]

debug\_level = 0x01F0

filter\_users = root,bin,nobody

filter\_groups = root,bin,nobody

entry\_negative\_timeout = 300

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]#

[root@dbversity samba]# getent passwd dbversitusr

 [root@dbversity dbversitusr]# cat /etc/opt/rh/rh-mariadb101/my.cnf

# This group is read both
both by the client and the server

# use it for options that
affect everything

[client-server]

#################### <--
Client-Server SSL Options--> #######################################

ssl

ssl-cipher =
AES128+EECDH:AES128+EDH

ssl-ca =
/etc/opt/rh/rh-mariadb101/pki/ca.pem

ssl-cert =
/etc/opt/rh/rh-mariadb101/pki/mariadb\_cert.pem

ssl-key =
/etc/opt/rh/rh-mariadb101/pki/mariadb\_private.key

[client]

[mysqld]

port
=       4306

performance\_schema
=       on

skip-show-database

symbolic-links
=       0

local-infile
=       0

bind-address
=       dbversity

wait\_timeout
=       1800

interactive\_timeout
=       1800

#################### <--
MariaDB Plugins --> ###############################################

pam\_use\_cleartext\_plugin

plugin-dir =
/opt/rh/rh-mariadb101/root/usr/lib64/mysql/plugin/

plugin-load
=       auth\_gssapi.so

plugin-load
=       auth\_pam.so

plugin-load
=       simple\_password\_check.so

plugin-load
=       server\_audit.so

plugin-load
=       pam\_unix.so

#####################
<--  Kerberos configuration -->
#######################################

#gssapi-keytab-path
=       /etc/opt/rh/rh-mariadb101/mariadb.keytab

##################### <--
Logging switeches       -->
#######################################

general-log

general-log-file =
/var/opt/rh/rh-mariadb101/lib/mysql/general\_query.log

log-output
=       file

log\_warnings
=       3

# include all files from the
config directory

#

!includedir
/etc/opt/rh/rh-mariadb101/my.cnf.d

[root@dbversity
dbversitusr]#

[root@dbversity
dbversitusr]# cat /etc/pam.d/mariadb

auth required
pam\_krb5.so   minimum\_uid=1000   no\_user\_check

account required
pam\_krb5.so  no\_user\_check

[root@dbversity
dbversitusr]#

[root@dbversity
dbversitusr]#

[root@dbversity
dbversitusr]# mysql -u sa\_admin -p

Welcome to the MariaDB
monitor.  Commands end with ; or \g.

Your MariaDB connection id
is 4

Server version:
10.1.16-MariaDB MariaDB Server

Copyright (c) 2000, 2016,
Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for
help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

MariaDB [(none)]> select
user,password,host,ssl\_type from mysql.user;

+-------------+-------------------------------------------+----------------+----------+

| user | password | host |
ssl\_type |

+-------------+-------------------------------------------+----------------+----------+

|
abc123     | | % | ANY      |

|
abc123     | | % | ANY      |

|
dbversitusr     | | % | ANY      |

|
bcd123     | | % | ANY      |

|
edf123     | | % | ANY      |

+-------------+-------------------------------------------+----------------+----------+

10 rows in set (0.00 sec)

MariaDB [(none)]>

MariaDB [(none)]> exit

Bye

[root@dbversity
dbversitusr]#

[root@dbversity
dbversitusr]#

[root@dbversity
dbversitusr]# ssh dbversitusr@dbversity

You are authorized to use
this System for approved business purposes only.

Use for any other purpose is
prohibited. All transactional records, reports,

email, software and other
data generated by or residing upon this System,

to the extent permitted by
local law, are the property of Dbversitygroup Inc.

or one of its subsidiaries
or their affiliates

(individually or
collectively ' Dbversitygroup ') and may be used by Dbversitygroup

for any purpose authorized
and permissible in your country of work.

Activities on this System
are monitored to the extent permitted by local law.

PAM Authentication

Password:

Last login: Wed Sep 28 2016
00:50:42 -0400 from GCOTDVMSW783314.nam.dbroot.net

[dbversitusr@dbversity ~]$

[dbversitusr@dbversity ~]$

[dbversitusr@dbversity ~]$  mysql -u dbversitusr -p -P 4306 -h dbversity

Enter password:

Welcome to the MariaDB
monitor.  Commands end with ; or \g.

Your MariaDB connection id
is 5

Server version:
10.1.16-MariaDB MariaDB Server

Copyright (c) 2000, 2016,
Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for
help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

[root@dbversity
mariadb]# kinit mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

Password for mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET:

[root@dbversity mariadb]#

[root@dbversity mariadb]# klist

Ticket cache: FILE:/tmp/krb5cc\_0

Default principal: mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

Valid
starting
Expires
Service principal

02/08/17 07:06:25  02/08/17 17:06:28  krbtgt/DBVERSITY.DBROOT.NET@DBVERSITY.DBROOT.NET

        renew until 02/09/17 07:06:25

[root@dbversity mariadb]#

[root@dbversity mariadb]#

[root@dbversity mariadb]# date

Wed Feb  8 07:06:41 EST 2017

[root@dbversity mariadb]#

[root@dbversity mariadb]# mysql -u sa\_admin -p'XXXXXXX'

Welcome to the MariaDB monitor.  Commands end with ; or \g.

Your MariaDB connection id is 41

Server version: 10.1.16-MariaDB MariaDB Server

Copyright (c) 2000,
2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or
'\h' for help. Type '\c' to clear the current input statement.

MariaDB
[(none)]>

MariaDB [(none)]>

MariaDB [(none)]>

MariaDB [(none)]>

MariaDB [(none)]> use mysql

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

MariaDB [mysql]>

MariaDB [mysql]>

MariaDB [mysql]> select \* from user where user='mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET'\G

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1. row \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Host: %

User: mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

Password:

           Select\_priv: Y

           Insert\_priv: Y

           Update\_priv: Y

           Delete\_priv: Y

           Create\_priv: Y

Drop\_priv: Y

           Reload\_priv: Y

         Shutdown\_priv: Y

          Process\_priv: Y

File\_priv: Y

            Grant\_priv:
N

       References\_priv: Y

            Index\_priv:
Y

            Alter\_priv:
Y

          Show\_db\_priv: Y

            Super\_priv:
Y

Create\_tmp\_table\_priv: Y

      Lock\_tables\_priv: Y

          Execute\_priv: Y

       Repl\_slave\_priv: Y

      Repl\_client\_priv: Y

      Create\_view\_priv: Y

        Show\_view\_priv: Y

   Create\_routine\_priv: Y

    Alter\_routine\_priv: Y

      Create\_user\_priv: Y

            Event\_priv:
Y

          Trigger\_priv: Y

Create\_tablespace\_priv: Y

ssl\_type: ANY

ssl\_cipher:

           x509\_issuer:

          x509\_subject:

         max\_questions: 0

           max\_updates: 0

       max\_connections: 0

  max\_user\_connections: 0

plugin: gssapi

authentication\_string:

      password\_expired: N

is\_role: N

          default\_role:

    max\_statement\_time: 0.000000

1 row in set (0.00 sec)

MariaDB
[mysql]>

MariaDB [mysql]>

MariaDB [mysql]> show grants
for 'mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET'@'%';

+-----------------------------------------------------------------------------------------------------------------------------------+

| Grants
for mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET@%
|

+-----------------------------------------------------------------------------------------------------------------------------------+

| GRANT ALL PRIVILEGES ON \*.\*
TO 'mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET'@'%' IDENTIFIED
VIA gssapi REQUIRE SSL |

+-----------------------------------------------------------------------------------------------------------------------------------+

1 row in set (0.00 sec)

MariaDB
[mysql]>

MariaDB [mysql]>

MariaDB [mysql]>

MariaDB [mysql]> show plugins;

+-------------------------------+----------+--------------------+-----------------+---------+

|
Name
| Status   |
Type
| Library         | License |

+-------------------------------+----------+--------------------+-----------------+---------+

|
binlog
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

| mysql\_native\_password         |
ACTIVE   | AUTHENTICATION     |
NULL            |
GPL     |

|
mysql\_old\_password
| ACTIVE   | AUTHENTICATION     |
NULL            |
GPL     |

| wsrep
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

|
MEMORY
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

|
MyISAM
| ACTIVE   | STORAGE ENGINE     | NULL
| GPL     |

|
MRG\_MyISAM
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

|
CSV
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

|
CLIENT\_STATISTICS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INDEX\_STATISTICS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
TABLE\_STATISTICS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| USER\_STATISTICS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
SEQUENCE
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

|
InnoDB
| ACTIVE   | STORAGE ENGINE     |
NULL            | GPL
|

|
XTRADB\_READ\_VIEW
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| XTRADB\_INTERNAL\_HASH\_TABLES   | ACTIVE   | INFORMATION
SCHEMA | NULL
| GPL     |

|
XTRADB\_RSEG
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_TRX
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_LOCKS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_LOCK\_WAITS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_CMP
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_CMP\_RESET
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_CMPMEM
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_CMPMEM\_RESET
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_CMP\_PER\_INDEX          |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_CMP\_PER\_INDEX\_RESET    | ACTIVE   |
INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_BUFFER\_PAGE
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_BUFFER\_PAGE\_LRU        |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_BUFFER\_POOL\_STATS      | ACTIVE   |
INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_METRICS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_FT\_DEFAULT\_STOPWORD    | ACTIVE   |
INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_FT\_DELETED
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_FT\_BEING\_DELETED       |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_FT\_CONFIG
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_FT\_INDEX\_CACHE         |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_FT\_INDEX\_TABLE         |
ACTIVE   | INFORMATION SCHEMA | NULL
| GPL     |

|
INNODB\_SYS\_TABLES
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_SYS\_TABLESTATS         |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_SYS\_INDEXES
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_SYS\_COLUMNS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_SYS\_FIELDS
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_SYS\_FOREIGN
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_SYS\_FOREIGN\_COLS       |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_SYS\_TABLESPACES        |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_SYS\_DATAFILES          |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_CHANGED\_PAGES          |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
INNODB\_MUTEXES
| ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_SYS\_SEMAPHORE\_WAITS    | ACTIVE   |
INFORMATION SCHEMA |
NULL            |
GPL     |

| INNODB\_TABLESPACES\_ENCRYPTION | ACTIVE   | INFORMATION SCHEMA |
NULL            |
BSD     |

| INNODB\_TABLESPACES\_SCRUBBING  | ACTIVE   | INFORMATION SCHEMA
| NULL            |
BSD     |

| CHANGED\_PAGE\_BITMAPS          |
ACTIVE   | INFORMATION SCHEMA |
NULL            |
GPL     |

|
Aria
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

| PERFORMANCE\_SCHEMA
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

|
FEEDBACK
| DISABLED | INFORMATION SCHEMA |
NULL            |
GPL     |

|
partition
| ACTIVE   | STORAGE ENGINE     |
NULL            |
GPL     |

|
SERVER\_AUDIT
| ACTIVE   |
AUDIT
| server\_audit.so | GPL     |

|
gssapi
| ACTIVE   | AUTHENTICATION     |
auth\_gssapi.so  | BSD     |

|
CONNECT
| ACTIVE   | STORAGE ENGINE     |
ha\_connect.so   | GPL     |

+-------------------------------+----------+--------------------+-----------------+---------+

58 rows in set (0.01 sec)

MariaDB
[mysql]>

MariaDB [mysql]>

MariaDB [mysql]> show variables like '%plugin%' ;

+-----------------+----------------------------------------------------+

| Variable\_name   |
Value
|

+-----------------+----------------------------------------------------+

| plugin\_dir      | /opt/rh/rh-mariadb101/root/usr/lib64/mysql/plugin/
|

| plugin\_maturity |
unknown
|

+-----------------+----------------------------------------------------+

2 rows in set (0.00 sec)

MariaDB
[mysql]>

MariaDB [mysql]>

MariaDB [mysql]>

MariaDB [mysql]>

MariaDB [mysql]> \! ls -lhtr
/opt/rh/rh-mariadb101/root/usr/lib64/mysql/plugin/\*gss\*

-rwxr-x--- 1 mysql mysql 15K Jul 26  2016
/opt/rh/rh-mariadb101/root/usr/lib64/mysql/plugin/auth\_gssapi.so

-rwxr-x--- 1 mysql mysql 11K Jul 26  2016 /opt/rh/rh-mariadb101/root/usr/lib64/mysql/plugin/auth\_gssapi\_client.so

MariaDB [mysql]>

MariaDB [mysql]>

MariaDB [mysql]>

MariaDB [mysql]>

PS C:\Users\dbversitusr> get-aduser mariadbusr

DistinguishedName : CN=mariadbusr,OU=svc\_Accts,OU=DBEng,DC=DBFRY,DC=dbrootdev,

DC=net

Enabled : True

GivenName : mariadbusr

Name : mariadbusr

ObjectClass : user

ObjectGUID : 4b03d383-cdb0-4e3c-b5f7-ab3145c5ae47

SamAccountName : mariadbusr

SID : S-1-5-21-3457776087-2976605200-2696644476-1195569

Surname :

UserPrincipalName : mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

PS C:\Users\dbversitusr>

[http://dbversity:5555/mindex.html#/settings](http://icl-mardb-vm03:5555/mindex.html#/settings)

**Host : DBFRY003.DBVERSITY.DBROOT.NET**

**Encryption        : No encryption**

**Port : 389**

**User Search Base  : DC=DBFRY,DC=dbrootdev,DC=net**

**User DN           : CN=mariadbusr,OU=svc\_Accts,OU=DBEng,DC=DBFRY,DC=dbrootde,DC=net**

**Password          : < Password here>**

* + 1. MariaDB v10.1.16 for certification
	+ 2. Platform – RHEL6.8, RHEL7 later, build is from CATE DbversitySystems
	+ 3. Two plugins
		- a.       GSSAPI plugin for FID so as not to show password
		- b.      pam plugin for regular users (AD)
	+ 4. Keytab generation using ktpass on Windows host and copy to Linux host/MariaDB – crypto all option
		- a.       DES  – needs to be removed
		- b.      RC4 - deprecated
		- c.       AES128, AES256
	+ 5. GSSAPI error – Srinivas to troubleshoot issue
	+ 6. PAM plugin – pam.conf – create user with same name in MariaDB but password is in AD (DBFRY)

**At AD Windows Server :**

ktpass.exe /princ mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET /mapuser mariadbusr /pass MyPassword\_here /ptype KRB5\_NT\_PRINCIPAL /mapop set  /crypto AES128-SHA1  /out mariadb.keytab

ktpass.exe /princ mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET /mapuser mariadbusr /pass MyPassword\_here /ptype KRB5\_NT\_PRINCIPAL /mapop set  /crypto AES256-SHA1  /out mariadb.keytab -in mariadb.keytab

ktpass.exe /princ mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET /mapuser mariadbusr /pass MyPassword\_here /ptype KRB5\_NT\_PRINCIPAL /mapop set  /crypto RC4-HMAC-NT  /out mariadb.keytab -in mariadb.keytab

C:\Users\dbversitusr>

C:\Users\dbversitusr>ktpass.exe /princ mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET /mapuser mariadbusr /pass C1v@123 /ptype KRB5\_NT\_PRINCIPAL /mapop set  /crypto AES256-SHA1 /out mariadb.keytab

Targeting domain controller: DBFRYdctx01.DBVERSITY.DBROOT.NET

Successfully mapped mariadb/dbversity.nam.dbroot.net to mariadbusr.

Password succesfully set!

Key created.

Output keytab to mariadb.keytab:

Keytab version: 0x502

keysize 109 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 70 etype 0x12 (AES256-SHA1) keylength 32 (0x243869ef05c4c5dd730572d07c164198d907b1c1f67d87c4fdda9e0eebff170

6)

C:\Users\dbversitusr>ktpass.exe /princ mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET /mapuser mariadbusr /pass C1v@123 /ptype KRB5\_NT\_PRINCIPAL /mapop set  /crypto AES128-SHA1 /out mariadb.keytab -in mariadb.keytab

Existing keytab:

Keytab version: 0x502

keysize 109 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 70 etype 0x12 (AES256-SHA1) keylength 32 (0x243869ef05c4c5dd730572d07c164198d907b1c1f67d87c4fdda9e0eebff170

6)

Targeting domain controller: DBFRYdctx01.DBVERSITY.DBROOT.NET

Successfully mapped mariadb/dbversity.nam.dbroot.net to mariadbusr.

Password succesfully set!

Key created.

Output keytab to mariadb.keytab:

Keytab version: 0x502

keysize 109 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 70 etype 0x12 (AES256-SHA1) keylength 32 (0x243869ef05c4c5dd730572d07c164198d907b1c1f67d87c4fdda9e0eebff170

6)

keysize 93 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 71 etype 0x11 (AES128-SHA1) keylength 16 (0x206c31debd9902e31958e7079a4ed189)

C:\Users\dbversitusr>ktpass.exe /princ mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET /mapuser mariadbusr /pass C1v@123 /ptype KRB5\_NT\_PRINCIPAL /mapop set  /crypto RC4-HMAC-NT /out mariadb.keytab -in mariadb.keytab

Existing keytab:

Keytab version: 0x502

keysize 109 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 70 etype 0x12 (AES256-SHA1) keylength 32 (0x243869ef05c4c5dd730572d07c164198d907b1c1f67d87c4fdda9e0eebff170

6)

keysize 93 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 71 etype 0x11 (AES128-SHA1) keylength 16 (0x206c31debd9902e31958e7079a4ed189)

Targeting domain controller: DBFRYdctx01.DBVERSITY.DBROOT.NET

Successfully mapped mariadb/dbversity.nam.dbroot.net to mariadbusr.

Password succesfully set!

Key created.

Output keytab to mariadb.keytab:

Keytab version: 0x502

keysize 109 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 70 etype 0x12 (AES256-SHA1) keylength 32 (0x243869ef05c4c5dd730572d07c164198d907b1c1f67d87c4fdda9e0eebff170

6)

keysize 93 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 71 etype 0x11 (AES128-SHA1) keylength 16 (0x206c31debd9902e31958e7079a4ed189)

keysize 93 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET ptype 1 (KRB5\_NT\_PRINCIPAL) vno 72 etype 0x17 (RC4-HMAC) keylength 16 (0x4fb9816e493bc7a892849550d3465e94)

C:\Users\dbversitusr>

C:\Users\dbversitusr>

C:\Users\dbversitusr>

C:\Users\dbversitusr>

**At MariaDB Linux VM :**

[root@dbversity tmp]#

[root@dbversity tmp]# klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: [FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab](https://collaborate.citi.net/thread/166992)

KVNO Principal

---- --------------------------------------------------------------------------

  61 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes128-cts-hmac-sha1-96)

  62 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  63 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (arcfour-hmac)

[root@dbversity tmp]#

[root@dbversity tmp]# mysql -u mariadbusr

Welcome to the MariaDB monitor.  Commands end with ; or \g.

Your MariaDB connection id is 23

Server version: 10.1.19-MariaDB MariaDB Server

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

MariaDB [(none)]> SHOW GRANTS;

+------------------------------------------------------------------------------------------------------------------------------------------------------+

| Grants for mariadbusr@%                                                                                                                              |

+------------------------------------------------------------------------------------------------------------------------------------------------------+

| GRANT ALL PRIVILEGES ON \*.\* TO 'mariadbusr'@'%' IDENTIFIED VIA gssapi USING 'mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET' REQUIRE SSL |

+------------------------------------------------------------------------------------------------------------------------------------------------------+

1 row in set (0.00 sec)

MariaDB [(none)]>

 [root@dbversity ~]# man ktutil

KTUTIL(1) KTUTIL(1)

NAME

       ktutil - Kerberos keytab file maintenance utility

SYNOPSIS

       ktutil

DESCRIPTION

       The ktutil command invokes a subshell from which an administrator can read, write, or edit entries in a Kerberos V5 keytab or V4 srvtab file.

COMMANDS

       list Displays the current keylist. Alias: l.

       read\_kt keytab

              Read the Kerberos V5 keytab file keytab into the current keylist.  Alias: rkt

       read\_st srvtab

              Read the Kerberos V4 srvtab file srvtab into the current keylist.  Alias: rst.

       write\_kt keytab

              Write the current keylist into the Kerberos V5 keytab file keytab. Alias: wkt.

       write\_st srvtab

              Write the current keylist into the Kerberos V4 srvtab file srvtab. Alias: wst.

       clear\_list

              Clear the current keylist.  Alias: clear.

       delete\_entry slot

              Delete the entry in slot number slot from the current keylist.  Alias: delent.

       add\_entry (-key | -password) -p principal -k kvno -e enctype

              Add principal to keylist using key or password.  Alias: addent.

       list\_requests

              Displays a listing of available commands.  Aliases: lr, ?.

       quit Quits ktutil.  Aliases: exit, q.

SEE ALSO

       kadmin(8), kdb5\_util(8)

KTUTIL(1)

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]# ktutil

ktutil:  list

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

ktutil:  read\_kt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:  list

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:  exit

[root@dbversity ~]#

[root@dbversity ~]# klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab

KVNO Principal

---- --------------------------------------------------------------------------

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes128-cts-hmac-sha1-96)

  72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (arcfour-hmac)

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]# ktutil

ktutil:  read\_kt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:  ?

Available ktutil requests:

clear\_list, clear        Clear the current keylist.

read\_kt, rkt             Read a krb5 keytab into the current keylist.

read\_st, rst             Read a krb4 srvtab into the current keylist.

write\_kt, wkt            Write the current keylist to a krb5 keytab.

write\_st, wst            Write the current keylist to a krb4 srvtab.

add\_entry, addent        Add an entry to the current keylist.

delete\_entry, delent     Delete an entry from the current keylist.

list, l                  List the current keylist.

list\_requests, lr, ?     List available requests.

quit, exit, q            Exit program.

ktutil:

ktutil:

ktutil:  delete\_entry 3

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:  delete\_entry 2

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:  delete\_entry 1

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

ktutil:

ktutil:

ktutil:

ktutil:  read\_kt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:  delete\_entry 3

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:  wkt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:

ktutil:  exit

[root@dbversity ~]#

[root@dbversity ~]# klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab

KVNO Principal

---- --------------------------------------------------------------------------

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes128-cts-hmac-sha1-96)

  72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (arcfour-hmac)

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes128-cts-hmac-sha1-96)

[root@dbversity ~]#

[root@dbversity ~]#

[root@dbversity ~]# ktutil

ktutil:

ktutil:  read\_kt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   4   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   5   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:  delete\_entry 4

ktutil:  delete\_entry 5

delete\_entry: Invalid argument while deleting entry 5

ktutil:

ktutil:

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   4   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:  delete\_entry 4

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:   wkt /etc/opt/rh/rh-mariadb101/mariadb.keytab

wkt: Unsupported key table format version number while writing keytab "/etc/opt/rh/rh-mariadb101/mariadb.keytab"

ktutil:

ktutil:

ktutil:  wkt /etc/opt/rh/rh-mariadb101/mariadb.keytab

wkt: Unsupported key table format version number while writing keytab "/etc/opt/rh/rh-mariadb101/mariadb.keytab"

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:  wkt /tmp/newtab

ktutil:

ktutil:  rkt /etc/opt/rh/rh-mariadb101/mariadb.keytab\_bkp

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   4   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   5   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   6   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:  clear

ktutil:

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

ktutil:

ktutil:

ktutil:  rkt /etc/opt/rh/rh-mariadb101/mariadb.keytab\_bkp

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:  delent 3

ktutil:

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:  wkt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:

ktutil:  rkt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   4   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:  clear

ktutil:

ktutil:

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

ktutil:  rkt /etc/opt/rh/rh-mariadb101/mariadb.keytab\_bkp

ktutil:

ktutil:

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:  delent 1

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:  wkt /etc/opt/rh/rh-mariadb101/mariadb.keytab

ktutil:

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:  clear

ktutil:

ktutil:

ktutil:  read\_kt /etc/opt/rh/rh-mariadb101/mariadb.keytab\_bkp

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   3   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:  delent 2

ktutil:

ktutil:  l

slot KVNO Principal

---- ---- ---------------------------------------------------------------------

   1   70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

   2   72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET

ktutil:

ktutil:

ktutil:

ktutil:

ktutil:   wkt /etc/opt/rh/rh-mariadb101/mariadb.keytab

[root@dbversity tmp]# klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab

KVNO Principal

---- --------------------------------------------------------------------------

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes128-cts-hmac-sha1-96)

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# mysql -u mariadbusr

ERROR 1105 (HY000): Server GSSAPI error (major 851968, minor 0) : gss\_acquire\_cred failed -Unspecified GSS failure.  Minor code may provide more information.

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# kinit

Password for mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET:

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# mysql -u mariadbusr

ERROR 1105 (HY000): Server GSSAPI error (major 851968, minor 0) : gss\_acquire\_cred failed -Unspecified GSS failure.  Minor code may provide more information.

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# rm -f /etc/opt/rh/rh-mariadb101/mariadb.keytab

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#  klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab

KVNO Principal

---- --------------------------------------------------------------------------

  71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes128-cts-hmac-sha1-96)

  72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (arcfour-hmac)

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# mysql -u mariadbusr

ERROR 1105 (HY000): Server GSSAPI error (major 851968, minor 0) : gss\_acquire\_cred failed -Unspecified GSS failure.  Minor code may provide more information.

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# rm -f /etc/opt/rh/rh-mariadb101/mariadb.keytab

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#  klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab

KVNO Principal

---- --------------------------------------------------------------------------

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (arcfour-hmac)

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# mysql -u mariadbusr

ERROR 1105 (HY000): Server GSSAPI error (major 851968, minor 0) : gss\_acquire\_cred failed -Unspecified GSS failure.  Minor code may provide more information.

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# chown mysql:mysql /etc/opt/rh/rh-mariadb101/mariadb.keytab; chmod 655 /etc/opt/rh/rh-mariadb101/mariadb.keytab; ll -lhtr /etc/opt/rh/rh-mariadb101/mariadb.keytab

-rw-r-xr-x 1 mysql mysql 115 Mar 15 08:05 /etc/opt/rh/rh-mariadb101/mariadb.keytab

[root@dbversity tmp]#

[root@dbversity tmp]# klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab

KVNO Principal

---- --------------------------------------------------------------------------

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

[root@dbversity tmp]#

[root@dbversity tmp]# mysql -u mariadbusr

ERROR 1105 (HY000): Server GSSAPI error (major 851968, minor 2529639093) : gss\_accept\_sec\_context -Unspecified GSS failure.  Minor code may provide more information. No key table entry found for mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET.

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]#

[root@dbversity tmp]# mysql -u mariadbusr

Welcome to the MariaDB monitor.  Commands end with ; or \g.

Your MariaDB connection id is 8

Server version: 10.1.19-MariaDB MariaDB Server

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> exit

Bye

[root@dbversity tmp]#

[root@dbversity tmp]# klist -e -k /etc/opt/rh/rh-mariadb101/mariadb.keytab

Keytab name: FILE:/etc/opt/rh/rh-mariadb101/mariadb.keytab

KVNO Principal

---- --------------------------------------------------------------------------

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  70 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes256-cts-hmac-sha1-96)

  71 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (aes128-cts-hmac-sha1-96)

  72 mariadb/dbversity.nam.dbroot.net@DBVERSITY.DBROOT.NET (arcfour-hmac)

[root@dbversity tmp]#

[root@dbversity tmp]#