**ADTKM Usage Guide**

1. Refer to the installation and configuration guide to get everything set up properly.
2. Set up [cross-realm trust](#CrossRealmTrust1) between the two servers. This will also require you to [set up keytabs](#RcmdKeytabs).
3. The wrapper can be used using [LD\_PRELOAD](#LD_PRELOAD).

**Enable cross-realm trust**

**On the two AD-DC boxes, use the following command:**

samba-tool domain trust create DOMAIN [options]

Helpful link: <https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/system-level_authentication_guide/using_trusts>

**Setting up the keytabs**

**Keytabs need to be exported in order to make sure permissions are properly granted for certain users to access certain services. Here is an example:**

**Create spn rcmd/beaglebone1.dtkm.local and rcmd/beaglebone1 for user BEAGLEBONE1$**

**(this is done on the AD-DC)**

samba-tool spn add rcmd/beaglebone1.dtkm.local BEAGLEBONE1$

samba-tool spn add rcmd/beaglebone1 BEAGLEBONE1$

**Export keytab**

samba-tool domain exportkeytab mykeytab-1 --principal=rcmd/beaglebone1.dtkm.local

samba-tool domain exportkeytab mykeytab-1 --principal=rcmd/beaglebone1

**Move to BBB, merge with /etc/krb5.keytab**

ktutil copy mykeytab-1 /etc/krb5.keytab

**run**

kinit   
net ads join -k

**To check, run**ktutil -k /etc/krb5.keytab list

**61850 LD\_PRELOAD**

Download the code and change any hardcoded IP or FQDN references within to match your situation.

Build with “make” command.

Run with the following (same can be done for the server program):

LD\_PRELOAD=/path/to/client.o ./binary