[Desktop Migration/Server to FLEXWIN domain.](https://confluence.eu.flextrade.com/pages/viewpage.action?pageId=56955214)

[Skip to end of metadata](https://confluence.eu.flextrade.com/pages/viewpage.action?pageId=56955214#page-metadata-end)

* Created by [Kam Miah [X]](https://confluence.eu.flextrade.com/display/~kmiah), last modified by [Brendan Fernandes](https://confluence.eu.flextrade.com/display/~bfernand) on [Oct 23, 2018](https://confluence.eu.flextrade.com/pages/diffpagesbyversion.action?pageId=56955214&selectedPageVersions=15&selectedPageVersions=16)

[Go to start of metadata](https://confluence.eu.flextrade.com/pages/viewpage.action?pageId=56955214#page-metadata-start)

**Could not access the content at the URL because it is not from an allowed source.**

www.google.com

You may contact your site administrator and request that this URL be added to the list of allowed sources.

How to do Windows desktop migration:

 PDF

Known possible issues after profile migration to flexwin:

* Temporary profile - the fix for this is to restart the machine.
* Outlook app data issues - the fix for this is to uninstall office 365 and reinstall.

How to do Linux migration:

**note: This guide assumes that the linux installation is from the flexuk base image.**

**note: Create a backup of configs before making changes.**

**\*delete krb5.keytab**

**Linux migration, three config files will need to be created/modified:**

**smb.conf**

**directory: etc/samba/smb.conf**

[global]  
workgroup = FLEXWIN  
client signing = yes  
client use spnego = yes  
kerberos method = secrets and keytab  
realm = FLEXWIN.INTRANET.FLEXTRADE.COM  
security = ads

**SSSD.conf**

**/etc/sssd/sssd.conf**

[sssd]  
services = nss, pam  
config\_file\_version = 2  
domains = FLEXWIN.INTRANET.FLEXTRADE.COM

[domain/FLEXWIN.INTRANET.FLEXTRADE.COM]  
id\_provider = ad  
access\_provider = ad  
ldap\_id\_mapping = False  
#adding this to allow network users to login on login screen  
ad\_gpo\_map\_interactive = +unity

ad\_domain = [flexwin.intranet.flextrade.com](http://flexwin.intranet.flextrade.com/)  
krb5\_realm = FLEXWIN.INTRANET.FLEXTRADE.COM  
cache\_credentials = True  
id\_provider = ad  
krb5\_store\_password\_if\_offline = True  
default\_shell = /bin/bash  
ldap\_id\_mapping = False  
use\_fully\_qualified\_names = False  
fallback\_homedir = /home/%u  
access\_provider = simple

# Use this if users are being logged in at /.  
# This example specifies /home/DOMAIN-FQDN/user as $HOME. Use with [pam\_mkhomedir.so](http://pam_mkhomedir.so/)  
override\_homedir = /home/%u

# Uncomment if the client machine hostname doesn't match the computer object on the DC.  
# ad\_hostname = [mymachine.myubuntu.example.com](http://mymachine.myubuntu.example.com/)

# Uncomment if DNS SRV resolution is not working  
# ad\_server = [dc.mydomain.example.com](http://dc.mydomain.example.com/)

# Uncomment if the AD domain is named differently than the Samba domain  
# ad\_domain = MYUBUNTU.EXAMPLE.COM

# Enumeration is discouraged for performance reasons.  
# enumerate = true

**krb5.conf**

**directory: /etc/krb5.conf**

[libdefaults]  
default\_realm = FLEXWIN.INTRANET.FLEXTRADE.COM  
#adding these 2 entries to comply with Canonical's official recommendations for 16.04LTS install  
ticket\_lifetime = 24h  
renew\_lifetime = 7d

# The following krb5.conf variables are only for MIT Kerberos.  
krb4\_config = /etc/krb.conf  
krb4\_realms = /etc/krb.realms  
kdc\_timesync = 1  
ccache\_type = 4  
forwardable = true  
proxiable = true

# The following encryption type specification will be used by MIT Kerberos  
# if uncommented. In general, the defaults in the MIT Kerberos code are  
# correct and overriding these specifications only serves to disable new  
# encryption types as they are added, creating interoperability problems.  
#  
# Thie only time when you might need to uncomment these lines and change  
# the enctypes is if you have local software that will break on ticket  
# caches containing ticket encryption types it doesn't know about (such as  
# old versions of Sun Java).

# default\_tgs\_enctypes = des3-hmac-sha1  
# default\_tkt\_enctypes = des3-hmac-sha1  
# permitted\_enctypes = des3-hmac-sha1

# The following libdefaults parameters are only for Heimdal Kerberos.  
v4\_instance\_resolve = false  
v4\_name\_convert = {  
host = {  
rcmd = host  
ftp = ftp  
}  
plain = {  
something = something-else  
}  
}  
fcc-mit-ticketflags = true

[realms]  
ATHENA.MIT.EDU = {  
kdc = [kerberos.mit.edu](http://kerberos.mit.edu/):88  
kdc = [kerberos-1.mit.edu](http://kerberos-1.mit.edu/):88  
kdc = [kerberos-2.mit.edu](http://kerberos-2.mit.edu/):88  
admin\_server = [kerberos.mit.edu](http://kerberos.mit.edu/)  
default\_domain = [mit.edu](http://mit.edu/)  
}  
MEDIA-LAB.MIT.EDU = {  
kdc = [kerberos.media.mit.edu](http://kerberos.media.mit.edu/)  
admin\_server = [kerberos.media.mit.edu](http://kerberos.media.mit.edu/)  
}  
ZONE.MIT.EDU = {  
kdc = [casio.mit.edu](http://casio.mit.edu/)  
kdc = [seiko.mit.edu](http://seiko.mit.edu/)  
admin\_server = [casio.mit.edu](http://casio.mit.edu/)  
}  
MOOF.MIT.EDU = {  
kdc = [three-headed-dogcow.mit.edu](http://three-headed-dogcow.mit.edu/):88  
kdc = [three-headed-dogcow-1.mit.edu](http://three-headed-dogcow-1.mit.edu/):88  
admin\_server = [three-headed-dogcow.mit.edu](http://three-headed-dogcow.mit.edu/)  
}  
CSAIL.MIT.EDU = {  
kdc = [kerberos-1.csail.mit.edu](http://kerberos-1.csail.mit.edu/)  
kdc = [kerberos-2.csail.mit.edu](http://kerberos-2.csail.mit.edu/)  
admin\_server = [kerberos.csail.mit.edu](http://kerberos.csail.mit.edu/)  
default\_domain = [csail.mit.edu](http://csail.mit.edu/)  
krb524\_server = [krb524.csail.mit.edu](http://krb524.csail.mit.edu/)  
}  
IHTFP.ORG = {  
kdc = [kerberos.ihtfp.org](http://kerberos.ihtfp.org/)  
admin\_server = [kerberos.ihtfp.org](http://kerberos.ihtfp.org/)  
}  
GNU.ORG = {  
kdc = [kerberos.gnu.org](http://kerberos.gnu.org/)  
kdc = [kerberos-2.gnu.org](http://kerberos-2.gnu.org/)  
kdc = [kerberos-3.gnu.org](http://kerberos-3.gnu.org/)  
admin\_server = [kerberos.gnu.org](http://kerberos.gnu.org/)  
}  
1TS.ORG = {  
kdc = [kerberos.1ts.org](http://kerberos.1ts.org/)  
admin\_server = [kerberos.1ts.org](http://kerberos.1ts.org/)  
}  
GRATUITOUS.ORG = {  
kdc = [kerberos.gratuitous.org](http://kerberos.gratuitous.org/)  
admin\_server = [kerberos.gratuitous.org](http://kerberos.gratuitous.org/)  
}  
DOOMCOM.ORG = {  
kdc = [kerberos.doomcom.org](http://kerberos.doomcom.org/)  
admin\_server = [kerberos.doomcom.org](http://kerberos.doomcom.org/)  
}  
ANDREW.CMU.EDU = {  
kdc = [kerberos.andrew.cmu.edu](http://kerberos.andrew.cmu.edu/)  
kdc = [kerberos2.andrew.cmu.edu](http://kerberos2.andrew.cmu.edu/)  
kdc = [kerberos3.andrew.cmu.edu](http://kerberos3.andrew.cmu.edu/)  
admin\_server = [kerberos.andrew.cmu.edu](http://kerberos.andrew.cmu.edu/)  
default\_domain = [andrew.cmu.edu](http://andrew.cmu.edu/)  
}  
CS.CMU.EDU = {  
kdc = [kerberos.cs.cmu.edu](http://kerberos.cs.cmu.edu/)  
kdc = [kerberos-2.srv.cs.cmu.edu](http://kerberos-2.srv.cs.cmu.edu/)  
admin\_server = [kerberos.cs.cmu.edu](http://kerberos.cs.cmu.edu/)  
}  
DEMENTIA.ORG = {  
kdc = [kerberos.dementix.org](http://kerberos.dementix.org/)  
kdc = [kerberos2.dementix.org](http://kerberos2.dementix.org/)  
admin\_server = [kerberos.dementix.org](http://kerberos.dementix.org/)  
}  
[stanford.edu](http://stanford.edu/) = {  
kdc = [krb5auth1.stanford.edu](http://krb5auth1.stanford.edu/)  
kdc = [krb5auth2.stanford.edu](http://krb5auth2.stanford.edu/)  
kdc = [krb5auth3.stanford.edu](http://krb5auth3.stanford.edu/)  
master\_kdc = [krb5auth1.stanford.edu](http://krb5auth1.stanford.edu/)  
admin\_server = [krb5-admin.stanford.edu](http://krb5-admin.stanford.edu/)  
default\_domain = [stanford.edu](http://stanford.edu/)  
}  
UTORONTO.CA = {  
kdc = [kerberos1.utoronto.ca](http://kerberos1.utoronto.ca/)  
kdc = [kerberos2.utoronto.ca](http://kerberos2.utoronto.ca/)  
kdc = [kerberos3.utoronto.ca](http://kerberos3.utoronto.ca/)  
admin\_server = [kerberos1.utoronto.ca](http://kerberos1.utoronto.ca/)  
default\_domain = [utoronto.ca](http://utoronto.ca/)  
}

[domain\_realm]  
.[mit.edu](http://mit.edu/) = ATHENA.MIT.EDU  
[mit.edu](http://mit.edu/) = ATHENA.MIT.EDU  
.[media.mit.edu](http://media.mit.edu/) = MEDIA-LAB.MIT.EDU  
[media.mit.edu](http://media.mit.edu/) = MEDIA-LAB.MIT.EDU  
.[csail.mit.edu](http://csail.mit.edu/) = CSAIL.MIT.EDU  
[csail.mit.edu](http://csail.mit.edu/) = CSAIL.MIT.EDU  
.[whoi.edu](http://whoi.edu/) = ATHENA.MIT.EDU  
[whoi.edu](http://whoi.edu/) = ATHENA.MIT.EDU  
.[stanford.edu](http://stanford.edu/) = [stanford.edu](http://stanford.edu/)  
.[slac.stanford.edu](http://slac.stanford.edu/) = SLAC.STANFORD.EDU  
.[toronto.edu](http://toronto.edu/) = UTORONTO.CA  
.[utoronto.ca](http://utoronto.ca/) = UTORONTO.CA

[login]  
krb4\_convert = true  
krb4\_get\_tickets = false

**Once the config files have been modified install the following packages:**

sudo apt install krb5-user samba sssd chrony

**Then we need to join the computer to active directory:**

Join the Active Directory

Now, restart chrony and samba and start sssd:

sudo systemctl restart chrony.service

sudo systemctl restart smbd.service nmbd.service

sudo systemctl start sssd.service

Test the configuration by obtaining a Kerberos ticket:

sudo kinit migration-uk

password: Flextrade@123

Verify the ticket with:

sudo klist

If there is a ticket with an expiration date listed, then it is time to join the domain:

sudo net ads join -k

Test Authentication

It should now be possible to authenticate using an Active Directory User's credentials:

su - username

This might not work straightaway, you may need to wait 10-15 minutes and then try again.

**Mounting file server via NFS - Linux:**

edit /etc/fstab entries:

fs2.london.flextrade.[com:/export/shared/](http://com/export/shared/) /media/network/shared nfs rsize=8192,wsize=8192,nfsvers=3,timeo=14,hard,intr 0 0

fs2.london.flextrade.[com:/export/home/](http://com/export/home/) /media/network/home nfs rsize=8192,wsize=8192,nfsvers=3,timeo=14,hard,intr 0 0

fs2.london.flextrade.[com:/export/departmental/](http://com/export/departmental/) /media/network/departmental nfs rsize=8192,wsize=8192,nfsvers=3,timeo=14,hard,intr 0 0

fs2.london.flextrade.[com:/export/library/](http://com/export/library/) /media/network/library nfs rsize=8192,wsize=8192,nfsvers=3,timeo=14,hard,intr 0 0

fs2.london.flextrade.[com:/export/transfer/](http://com/export/transfer/) /media/network/transfer nfs rsize=8192,wsize=8192,nfsvers=3,timeo=14,hard,intr 0 0

fs1.london.flextrade.[com:/export/uksystems/](http://com/export/uksystems/) /media/network/uksystems nfs rsize=8192,wsize=8192,timeo=14,hard,nfsvers=3,intr 0 0

File Server Migration:

File server migration required modification of the following config files:

/etc/samba, /etc/krb5.conf.

**krb5 config:**

[logging]  
default = [FILE:/var/log/krb5libs.log](http://file/var/log/krb5libs.log)  
kdc = [FILE:/var/log/krb5kdc.log](http://file/var/log/krb5kdc.log)  
admin\_server = [FILE:/var/log/kadmind.log](http://file/var/log/kadmind.log)

[libdefaults]  
dns\_lookup\_realm = false  
ticket\_lifetime = 24h  
renew\_lifetime = 7d  
forwardable = true  
rdns = false  
# default\_realm = EXAMPLE.COM  
default\_ccache\_name = KEYRING:persistent:%{uid}  
default\_realm = FLEXWIN.INTRANET.FLEXTRADE.COM

[realms]  
# EXAMPLE.COM = {  
# kdc = [kerberos.example.com](http://kerberos.example.com/)  
# admin\_server = [kerberos.example.com](http://kerberos.example.com/)  
# }  
FLEXWIN.INTRANET.FLEXTRADE.COM = {  
}

[domain\_realm]  
# .[example.com](http://example.com/) = EXAMPLE.COM  
# [example.com](http://example.com/) = EXAMPLE.COM  
[flexwin.intranet.flextrade.com](http://flexwin.intranet.flextrade.com/) = FLEXWIN.INTRANET.FLEXTRADE.COM  
.[flexwin.intranet.flextrade.com](http://flexwin.intranet.flextrade.com/) = FLEXWIN.INTRANET.FLEXTRADE.COM

**samba config:**

Gitlab Repository for config files:

<http://ldn1-gitlab1/kmiah/flexwinfs2>

Link to file server migration project:

[https://support.eu.flextrade.com/projects/ICM/issues/ICM-6](https://support.eu.flextrade.com/projects/ICM/issues/ICM-6?filter=allopenissues)