

Linux with Windows AD LDAP

Customers wishing to deliver Frame-managed Linux desktops to users can use this guide to configure their Linux desktops to authenticate using Windows Active Directory (AD) LDAP.

Prerequisites

1. Active Directory Setup.
2. Frame Account settings as specified below.

AD Domain Controller Setup

Before Linux VMs can be configured to use Windows AD LDAP, the Windows AD domain controller must be configured as described in the [Domain Controller Prep](#) guide.

Frame Account Settings

During the creation of the Frame account, you must use Frame-provided images for accounts hosted on public cloud infrastructure or on AHV, installed the [Frame Workload Installer \(Linux\)](#) version 2.0.3 or greater in your BYO Ubuntu Server 20.04 template image.

Use Frame base image

Bring your own base image

Base image family

Ubuntu Server 20.04

Instance type

Air 4GB

Standard_D1_v2

Disk size

45 2048

45 GB

45 | GB

Initial capacity

1 50

1 instance

Provision Production Instances ?

Persistent desktop

Scheduled account termination

Terminate on

Aug 17th 2022 11:23



Time zone


Europe/Budapest

GMT+02:00

Account Creation - Use Frame Base Image

The **Domain** settings within the Frame Account Settings for an Ubuntu Frame account are identical to the settings for a Windows Frame account with two notable exceptions:

1. The Domain settings field **Service Account Name (UPN)** needs to be entered with capital letters (e.g., `frame.service@DOMAIN.NAME.COM`).
2. The username for logging in to the domain-joined production instances needs to be in the following format: `username@domain.com`. **Do not use** just `username` or `domain.com\username`.

Domain Settings	
Enable Active Directory Domain Join	<input checked="" type="checkbox"/>
Domain Name (FQDN)	<input type="text" value="frame.onazure"/>
Domain Controller IP or FQDN	<input type="text" value="10.10.4"/>
DNS servers (up to 3, comma separated)	<input type="text" value="10.10.4"/>
Service Account Name (UPN)	<input type="text" value="frame.service@FRAME.ONAZURE"/>
<input type="button" value="Change password"/>	
Target OU Distinguished Name	<input type="text" value="OU=FGA-Ubuntu-Azure-DJI,OU=VDI,OU=Computers,OU=Fra"/>
Machine Name Prefix	<input type="text" value="FRAME-"/>
Require Login with Domain User Account 	<input checked="" type="checkbox"/>
Frame SSO <input type="button" value="Tech Preview"/>	<input type="checkbox"/>

Account Settings - Domain

Once you have updated your Domain settings, reboot your Sandbox VM.

Pre-publish Verification

Before publishing your Sandbox, power on the Sandbox VM and access the Sandbox. Open a Linux terminal and execute the following commands:

```
realm discover <domainname>
dig <domainname>
ping <domainname>
```

```
F Menu 3
File Edit View Search Terminal Help
frame-user@IF-3562CC68B283:~$ ping 10.3.1.4
PING 10.3.1.4 (10.3.1.4) 56(84) bytes of data.
64 bytes from 10.3.1.4: icmp_seq=1 ttl=128 time=9.17 ms
^C
--- 10.3.1.4 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 9.171/9.171/9.171/0.000 ms
frame-user@IF-3562CC68B283:~$ dig 4sa.onazure

; <<>> DiG 9.16.1-Ubuntu <<>> 4sa.onazure
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 45185
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;4sa.onazure.                IN      A

;; ANSWER SECTION:
4sa.onazure.                524     IN      A      10.3.1.4

;; Query time: 4 msec
;; SERVER: 127.0.0.53#53(127.0.0.53)
;; WHEN: Thu Aug 04 09:34:45 CEST 2022
;; MSG SIZE rcvd: 56

frame-user@IF-3562CC68B283:~$ realm discover 4sa.onazure
4sa.onazure
  type: kerberos
  realm-name: 4SA.ONAZURE
  domain-name: 4sa.onazure
  configured: no
  server-software: active-directory
  client-software: sssd
  required-package: sssd-tools
  required-package: sssd
  required-package: libnss-sss
  required-package: libpam-sss
  required-package: adcli
  required-package: samba-common-bin
frame-user@IF-3562CC68B283:~$ █
```

Sandbox - Pre-publish

If the commands return the expected results, then proceed with publishing the Frame account Sandbox.

Post-publish Verification

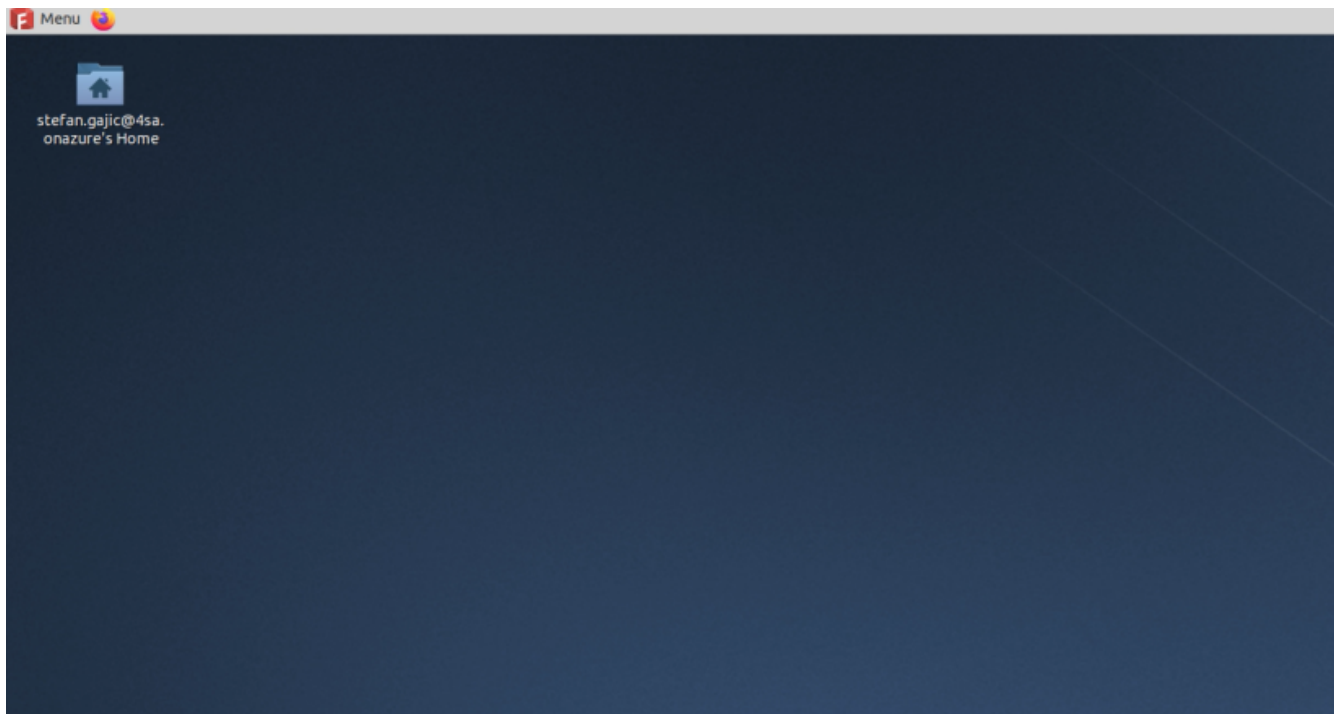
Once you have published the Sandbox, you can launch a production VM. You should see the following login screen:



Ubuntu Login Page

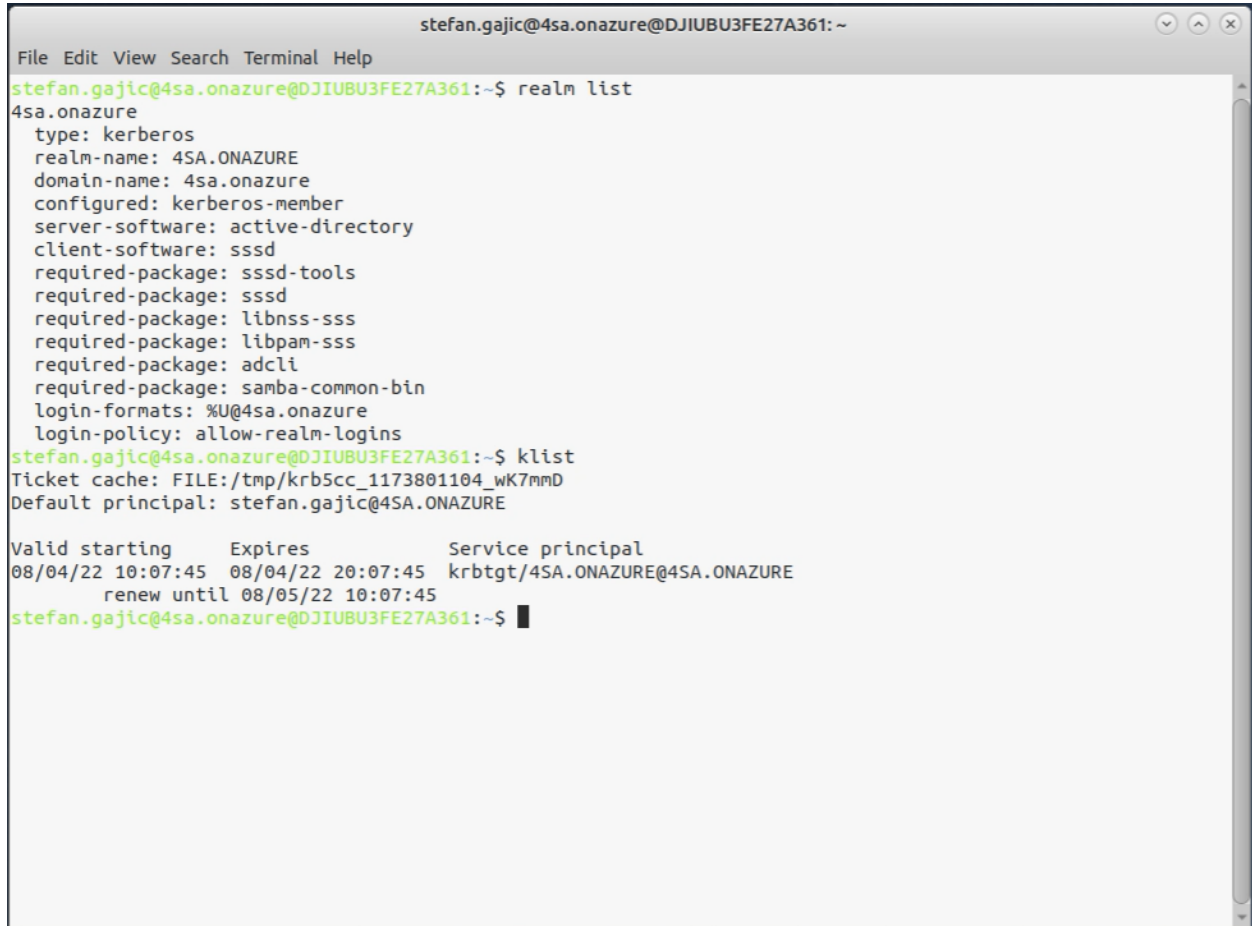
Enter a user's credentials in UPN format (`firstname.lastname@domain` and then the user's password).

Once Windows AD has authenticated your user credentials via LDAP, you will see your home directory:



Home Directory

Additionally, by opening terminal in your Ubuntu desktop, you can type the `realm list` command to check the domain settings:

A terminal window titled 'stefan.gajic@4sa.onazure@DJIUBU3FE27A361: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following output:

```
stefan.gajic@4sa.onazure@DJIUBU3FE27A361:~$ realm list
4sa.onazure
type: kerberos
realm-name: 4SA.ONAZURE
domain-name: 4sa.onazure
configured: kerberos-member
server-software: active-directory
client-software: sssd
required-package: sssd-tools
required-package: sssd
required-package: libnss-sss
required-package: libpam-sss
required-package: adcli
required-package: samba-common-bin
login-formats: %U@4sa.onazure
login-policy: allow-realm-logins
stefan.gajic@4sa.onazure@DJIUBU3FE27A361:~$ klist
Ticket cache: FILE:/tmp/krb5cc_1173801104_wK7mMD
Default principal: stefan.gajic@4SA.ONAZURE

Valid starting    Expires          Service principal
08/04/22 10:07:45  08/04/22 20:07:45  krbtgt/4SA.ONAZURE@4SA.ONAZURE
        renew until 08/05/22 10:07:45
stefan.gajic@4sa.onazure@DJIUBU3FE27A361:~$ █
```

Ubuntu Login Page

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