

# Google LDAP Deployment directions Instructions

[google-ads-sizes-update-2021.jpg](#)

These instructions follow a Series of Guides by Google on LDAP. The [article](#) demonstrates many types of Systems Including [PaperCut-MF](#) . The instructions Below are part of the [macOS Deployment](#) article [Deployment phase](#) which comes after the [Preparation Phase](#) which was completed on a CCA Device beforehand.

This Deployment phase instructs as follows:

## System requirements

- The macOS must be Catalina Version 10.15.4 or later.
- A Google super admin user ID is required to complete step 1 in the preparation phase. (already completed)
- You need local admin permissions to perform this configuration.

## 1. Copy Files

Copy the Mac Profile file `GOOGLE_LDAP_PROFILE2 (1).mobileconfig`, and the XML config `ldap.google.com.plist` file generated, and the python script `ldaps_macos_script.py` to the `/tmp/` directory on the macOS device.

Files attached in this Document or this [Link](#)

## 2. Install Mobile Profile

This step involves installing the mobile profile, which is crucial for integrating with the Secure LDAP server.

```
GOOGLE_LDAP_PROFILE2 (1).mobileconfig
```

## 3. Install Python 3

Download and install Python 3 from the official Python website.

```
https://www.python.org/ftp/python/3.13.5/python-3.13.5-macos11.pkg
```

## 4. Install Dependencies

Once Python 3 is installed, open a terminal and run the following command to install the required `pyobjc-framework-opendirectory` dependency:

```
python3 -m pip install pyobjc-framework-opendirectory
```

## 5. Execute Python Script

Run the Python script to configure the Secure LDAP settings:

```
sudo python3 /tmp/ldaps_macos_script.py /tmp/ldap.google.com.plist
```

## 6. Restart your Machine

Restart the macOS machine

## 7. Connect to Secure LDAP and Create Mobile Account

After the script executes, run the following command to connect to the Secure LDAP server and set up a home path and mobile account(s):

```
sudo  
/System/Library/CoreServices/ManagedClient.app/Contents/Resources/createmobil  
eaccount -n $uid -v
```

**Tip:** Replace *\$uid* with the username part of the email address associated with the user's Google account. For example, *jsmith* is the username part for *jsmith@solarmora.com*.

When prompted for the *SecureToken admin user name*, enter your admin username, and enter your password in the next prompt. This will add **\$uid** into the FileVault. This is needed if the macOS disk is encrypted.

## (Optional) Set the login screen preference

1. Go to **System preferences > Users & Groups > Login Options** at the bottom left.
2. Unlock the lock by providing admin credentials.
3. Change the *Display login window as* to **Name and password**.

## 8. Limitations and guidelines

- For users signing in to macOS using their Google credentials, their Workspace account username must be different from their macOS user profile user ID, or sign-in is blocked.

- Once a user starts signing in to macOS using Google credentials, user password management (reset or recovery) must happen on the Google website (for example, at *myaccount.google.com* or in the Google Admin console). If you choose to do password management using a third-party solution, then make sure the latest password is synchronized with Google.
- If the admin creates a new user or resets an existing user's password with the *Ask for a password change at the next sign-in* setting turned on, the user cannot sign in to Mac using the temporary password set by the admin.  
Workaround: The user needs to sign in to Google using another device (for example, their mobile device or other desktop device), set a permanent password, and then sign in to macOS using the new password.
- The Mac must be connected to a working internet connection so that *ldap.google.com* is reachable during the first sign-in after the above configuration. Any subsequent sign-ins won't need Internet access as long as you opted to set up a mobile account.
- Google Secure LDAP integration with macOS is tested on macOS Catalina, Big Sur, and Monterey.

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