

MFSC-101 Computer Setup Guide

The following Mac computer configuration must be completed before the start of SUMURI's Macintosh Forensics Survival Course 101. Any of the configuration requirements not accomplished before class starting may cause a delay in the class or your ability to participate. It is important to note that a Macintosh computer is required for the class and must be supplied by the student.

If you have any questions or issues configuring your Mac computer, contact training@sumuri.com.

I. Computer Requirements:

- Macintosh laptop or desktop with the current version of macOS 14 Sonoma installed.
- User Account must have administrator privileges.

External Storage:

- External hard drive with at least 20GB of free space.
- Thumb drive at least 2GB in size (if possible, keep at or under 16GB). This device will be wiped in class.

II. Download Class Files:

Please use the following links to download the Class Files. Depending on your Internet download speed, these files may take some time to download. The files will be needed for each day of class.

Image File (filename Alex_Macbook.dmg; 4.89 GB):

https://workdrive.zohoexternal.com/file/tx4wy9af9b61996f84b73848b7553268a9020

Student Files (filename MFSC-101 Student Files.dmg; 300 MB):

https://workdrive.zohoexternal.com/file/tx4wy93d15cd8f6de4da789224836f24204f1

Once you have downloaded the Class Image, unzip it and ensure that it is locked to prevent changes. A locked image will have a small lock in the lower left corner of the image icon.

You can lock the image by Right (or Control) Clicking on the image, selecting "Get Info" and in the "Get Info" window, clicking on the "Locked" box. This write-protects the image.







III. Software Requirements (use the current version of the tools unless otherwise stated)

- 1. Zoom
- 2. Xcode with Command Line Tools installed
- 3. MacPorts
- 4. ExifTool
- 5. DB Browser for SQLite
- 6. Disk Arbitrator
- 7. Full Disk Access needed for most applications.

Software Installation

1. Zoom

Download the Zoom installer application from the following link: https://zoom.us/download

You must give Zoom permission to access your camera, microphone, and screen recording.

- a. Go to **System Preferences > Security & Privacy** tab.
- b. Scroll down to "Camera" and either add Zoom or, if it is already present, click on the check box to enable it.
- c. Scroll down to "Microphone" and either add Zoom or, if it is already present, click on the check box to enable it.
- d. Scroll down to "Screen Recording" and either add Zoom or, if it is already present, click on the check box to enable it.

Once you have granted permissions, reboot your computer in order for them to take effect.

2. Xcode

Xcode is macOS' integrated development environment that is necessary to install/run several of the applications that we will be using. It is available for free from the App Store and can be found using this direct link: <u>https://apps.apple.com/se/app/xcode/id497799835?mt=12</u>

Xcode is a large file, and download speeds from Apple tend to be slow. Ensure that you install Xcode as soon as possible.

Once Xcode is installed, go to the **Applications > Utilities** folder and double-click on Xcode to start the application. After double-clicking, you may be presented with a pop-up that states **Command Line Developer Tools** installation is required. Click Install to start the installation process. You can verify that Xcode installed correctly with the following command:





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sudo xcode-select --install

When Xcode and the Command Line Developer Tools are installed, you must agree to the terms of use. Do this by running the following command in the Terminal App:

sudo xcodebuild -license

Once you agree to the terms of use, you can quit Xcode and the Terminal app.

3. MacPorts

MacPorts is a package management system used to simplify the installation of third-party applications on macOS. MacPorts can be downloaded from:

https://www.macports.org/install.php

Download the installer and follow the installation directions on the page. Once installed, make sure you run the MacPorts update command. You may need to close the terminal and then restart it before you can run the following command:

sudo port -v selfupdate

Once the installation is complete, you can unmount the MacPorts installer DMG. You may need to go to the **System Settings > Security & Privacy** section and authenticate the application in order for it to be allowed to run.

4. ExifTool

ExifTool is a platform-independent Perl library and a command-line application for reading, writing, and editing metadata in a variety of files. To install, download the MacOS Package (in DMG format) from: <u>http://exiftool.sourceforge.net/</u>

Once the ExifTool DMG is downloaded, double-click on it to mount the image. Double-click on the package file and follow the prompts to install the application. You may encounter a Quarantine notice stating that the file cannot be opened because it is from an unidentified developer.



To overcome this, navigate to **System Settings > Privacy & Security**, and scroll down to the 'Security' section near the bottom. You should see a





message that ExifTool was blocked. Click Open Anyway and authenticate, then proceed with installation.

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Navigate back to the ExifTool installer package and double-click it to start the installation process. Allow all the defaults and once the installation is done, unmount the DMG file. Open the Terminal app and run the following command :

where exiftool

If ExifTool is installed correctly, you will see the path to where the ExifTool binary resides.

5. DB Browser for SQLite

Download the installer DMG from the following location: https://sqlitebrowser.org/dl/

Once it is downloaded, double-click the DMG to mount it and drag the DB Browser icon to the Applications folder to install it. When completed, you can unmount the installer DMG.





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6. Disk Arbitrator

Download the installer DMG from the following location: https://github.com/aburgh/Disk-Arbitrator/releases/tag/v0.8.0

Once it is downloaded, double-click the DMG to mount it and drag the Disk Arbitrator icon to the Applications folder to install it. When completed, you can unmount the installer DMG.

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7. Full Disk Access

In order to allow certain functionalities for some of the applications, you must ensure the following applications have full disk access. Do this by navigating to **System Settings > Security & Privacy**. Scroll down to "Full Disk Access" and add:

< Full Disk Access







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- Terminal
- Xcode

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- DB Browser for SQLite
- **Disk Arbitrator** •

