

MATLAB Installation:

System Requirements

Before embarking on the installation journey, it's crucial to ensure that your system meets the minimum requirements for running MATLAB. The specifications may vary based on the **MATLAB** version and the specific toolbox components you intend to use. However, as a general guideline, consider the following:

Operating System Compatibility

MATLAB supports three major operating systems:

- Windows: MATLAB is compatible with various Windows versions, including Windows 10, 8.1, 7, and Windows Server editions.
- macOS: MATLAB supports macOS versions, including High Sierra (10.13), Mojave (10.14), and later.
- Linux: MATLAB is compatible with several Linux distributions, such as Ubuntu, Red Hat Enterprise Linux, and CentOS.

Hardware Requirements

- RAM (Random Access Memory): A minimum of 2 GB RAM is required, but for optimal performance, it is recommended to have 4 GB or more.
- Storage Space: At least 3 GB of available disk space is needed for a typical installation. The space requirement may increase if additional toolboxes or components are installed.
- Processor: A multicore processor with a clock speed of 2.0 GHz or higher is recommended.
- Graphics Card: For an enhanced graphical user interface experience, a graphics card with support for OpenGL 3.3 or later is recommended.

Obtaining the MATLAB Installer

Before you can start the installation process, you need to obtain the MATLAB installer from the official MathWorks website. Follow these steps:

2.1 Visit the MathWorks Website

Open your preferred web browser and navigate to the MathWorks website at <https://www.mathworks.com/>.

2.2 Create a MathWorks Account

If you don't have a MathWorks account, you'll need to create one. This account is essential for

managing your MATLAB licenses and installations. Provide the necessary information to set up your

account.

2.3 Choose the MATLAB Edition

MathWorks offers various MATLAB editions, each catering to specific needs such as MATLAB,

Simulink, or a combination of both. Select the edition that aligns with your requirements and

proceed to download the installer.

Installation Process

Now that you have the MATLAB installer, let's delve into the installation process. The steps might

vary slightly depending on your operating system, but the general procedure remains consistent.

3.1 Windows Installation

3.1.1 Run the Installer

Locate the downloaded installer file (usually named `setup.exe`) and double-click on it to run the

installer.

3.1.2 Choose Installation Type

During the installation process, you will be prompted to choose between a "Typical" or "Custom"

installation. The "Typical" option includes the most commonly used features, while the "Custom"

option allows you to select specific components. Choose according to your preferences and click

"Next."

3.1.3 Log in with MathWorks Account

To proceed with the installation, you'll need to log in with your MathWorks account credentials. This

step is crucial for activating your MATLAB license.

3.1.4 Enter License Key

If prompted, enter the license key provided by MathWorks. This key is essential for activating your

MATLAB installation. Make sure to carefully input the key to avoid errors.

3.1.5 Select Installation Folder

Choose the directory where you want MATLAB to be installed

3.1.6 Complete the Installation

After configuring the installation settings, click "Install" to initiate the MATLAB installation process.

Once completed, you'll see a confirmation message.

3.2 macOS Installation

3.2.1 Mount the Disk Image

Locate the downloaded installer file (usually a `.dmg`` file) and double-click on it to mount the disk

image.

3.2.2 Run the Installer

Inside the mounted disk image, double-click on the installer icon to start the MATLAB installation

process.

3.2.3 Choose Installation Type

Similar to the Windows installation, you'll be prompted to choose between a "Typical" or "Custom"

installation.

3.2.4 Log in with MathWorks Account

Log in with your MathWorks account credentials to proceed with the installation.

3.2.5 Enter License Key

If not entered during the installation, provide the license key when prompted.

3.2.6 Select Installation Folder

Choose the directory for MATLAB installation and confirm your choice.

3.2.7 Complete the Installation

Click “Install” to start the installation process. Once completed, you'll receive a confirmation message.

3.3 Linux Installation

3.3.1 Extract the Installer

Navigate to the directory containing the downloaded installer file (usually a `.zip` file) and extract its

contents.

3.3.2 Run the Installer

Open a terminal window and navigate to the extracted directory. Run the installer script by executing the command ``sudo ./install``.

3.3.3 Choose Installation Type

Select the installation type, either “Typical” or “Custom,” depending on your preferences.

3.3.4 Log in with MathWorks Account

Log in with your MathWorks account credentials to proceed.

3.3.5 Enter License Key

Enter the license key if not done during the installation process.

3.3.6 Select Installation Folder

Choose the installation directory and confirm your selection.

3.3.7 Complete the Installation

Initiate the installation by running the command ``sudo ./install`` in the terminal. Once finished, you'll

receive a confirmation message.

Activation and Licensing

After successfully installing MATLAB, the next step is to activate it using the license key. The activation process may differ slightly based on the version and license type, but the general steps are as follows:

4.1 Launch MATLAB

Open MATLAB on your computer. You can usually find it in your applications or programs menu.

4.2 Choose Licensing Option

MATLAB offers various licensing options, including online and offline activation. Choose the option that aligns with your situation.

4.3 Enter License Key

If you haven't entered the license key during the installation process, you'll be prompted to do so now. Carefully input the key to ensure accuracy.

4.4 Confirm Activation

Confirm that MATLAB is successfully activated by checking the license information in the MATLAB