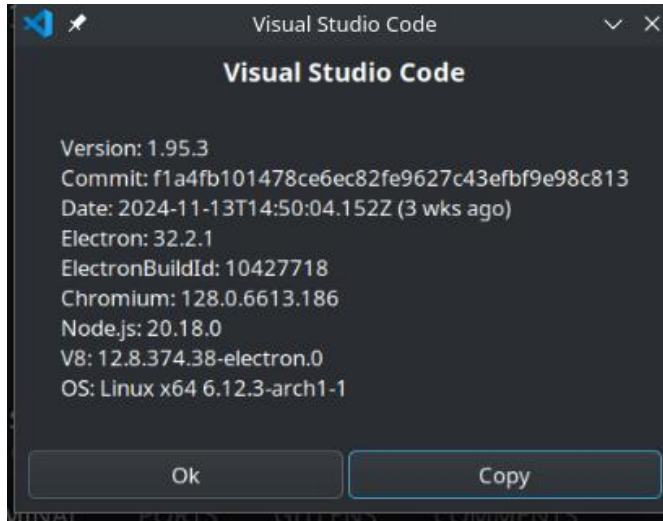


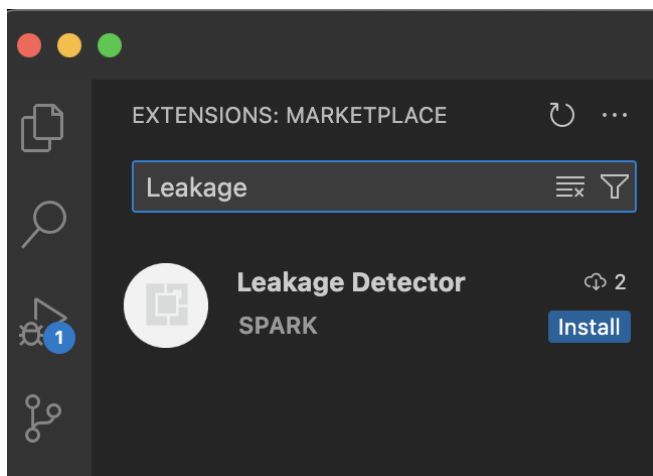
# Installation Guide for Leakage Detector

## 1. Installing the VS Code Extension

- 1) Open Visual Studio Code. Here is one working version of VS Code for our extension (version 1.95.3):



- 2) Navigate to the Extensions Marketplace by clicking on the Extensions icon on the Activity Bar or pressing Ctrl+Shift+X.
- 3) Search for 'Leakage Detector' in the search bar.
- 4) Look for the top result under the publisher 'SPARK' and click on it.



- 5) Click the 'Install' button to add the extension to your VS Code environment.

## 2. Downloading the Native Binaries

- 1) Go to the following URL in your browser:  
<https://leakage-detector.vercel.app/download>.
- 2) Identify and download the native binary that is most suited to your operating system (e.g., Windows, macOS, or Linux).
- 3) After downloading, locate the file and unzip it to a directory of your choice.
- 4) Once unzipped, the native binary is ready for use with the Leakage Detector VS Code extension.
- 5) Watch our tutorial video for further instructions on usage.

## 3. Docker Setup

Disclaimer: if you intend to use our native binaries with our VS Code extension, then this Docker setup is **unnecessary**. Otherwise, proceed to the next page for Docker setup instructions.

## 4. Resolving Antivirus/Firewall Issues on Windows

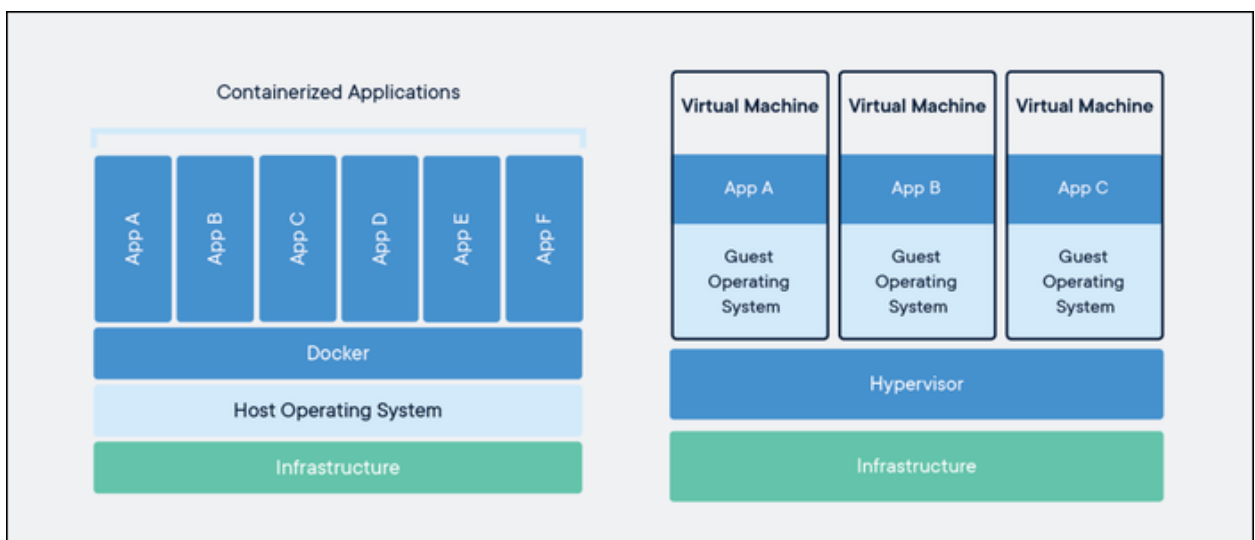
- 1) Open Windows Security by searching for it on the Start Menu.
- 2) Click on 'Virus & threat protection' in the menu.
- 3) Under the 'Virus & threat protection settings,' click on 'Manage settings.'
- 4) Scroll down to 'Exclusions' and click on 'Add or remove exclusions.'
- 5) Click on 'Add an exclusion' and select 'File' or 'Folder' based on where your native binary is located.
- 6) Navigate to the location of the downloaded native binary and select it.
- 7) Confirm the action and ensure the file or folder is now listed under exclusions.

# Getting Started with Docker

A Guide to What Docker is & How to Install it

## Introduction

So what is Docker? You can think of Docker as a middleman between full on virtualization and running something normally on your hardware. While virtualization would emulate an entire operating system on your computer, Docker uses something called containers. Containers, unlike VMs, use the host operating system and virtualizes the software running.



Containers only have exactly what they need inside of them, with nothing else. This means they are generally super lightweight so you can run a whole bunch of them on one machine. Instead of needing an entire desktop/virtual machine to run a simple application, like a web server for example, you can just throw it in a container and call it a day.

In a VM you call what manages the VM's the hypervisor ([here's](#) more information on hypervisors if you want to learn more), in Docker that's the Docker Engine.

## Installing Docker

Docker is available for Linux, MacOS, and Windows, making it something very useful for developers who run into the “but it works on my machine” issue. It can also allow you to create a container, and anyone can run it on nearly any device without caring about the operating system. We will be using a package manager for all the installations. If you want to learn more about them/need to install one on your system, refer to the document [Package Managers](#).

### Windows Installation

There are many ways to install Docker on Windows, but we will be using Chocolatey, a package manager for Windows.

In an administrator PowerShell console, run the command. There may be a confirmation request in the console, confirm it or the installation will halt.

```
choco install docker-desktop
```

### MacOS Installation

We are going to be using Homebrew for this, so install it if you haven't already. All you need to do is run the following command in your terminal if you have Homebrew installed.

```
brew install --cask docker
```

### Running the Docker Desktop

For Windows and MacOS you need to run the Docker Desktop application that was installed on your local computer during the above steps. You need to do this to start the Docker Engine. Go through the recommended setup options (there is no need to create an account right now, skip where you can).

## **Verify your Install**

To verify your install, run the command “docker run hello-world” and if you get an error message, you have not properly installed Docker.

Note: You will most likely need to restart your CLI to use the command after installation.

## **Docker Hub Account**

Now that you have verified your installation, you must create a Docker Hub account or be logged in to Docker Hub. Think of Docker Hub as GitHub for Docker. To create a Docker Hub account, run “docker login” and follow the steps there.

Note: It is best to use a PAT (Personal Access Token)

## **Images**

A Docker image describes the parameters of the container and how to create it. We don't always have to create our own images because there are a lot of them already available out there for us to use whenever we want! You can find a very large collection of them at the [Docker Hub](#). Our VS Code extension handles the work of installing the Docker image and creating the container, so don't worry about this. All you need to do is log in to Docker Hub and have Docker Desktop running in the background while the VS Code extension is running! If our VS Code extension cannot find your native binary, then it will fall back to automatically setting up the Docker solution.