

Passguard: Passguard Deployment and Installation Manual

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Chapter 1

Passguard Deployment and Installation Manual

1.1 Introduction

In this section we will write about how to deploy and install Passguard. There are two ways to do this depending on the audience, the general public will simply want to install the application and have it run on their device, developers will want to deploy the code and test it from their integrated development environment.

The application works in a tested way in both Windows 10 and Windows 11 operating systems, it is possible that it works in other versions of Windows, but it has not been tested. We will start from an archive with .zip extension where, among other files or folders, we will have a Passguard folder that if we open we will have two folders called SourceCode and Installers, plus a plain text file called Dependencies.txt. Depending on the type of user we will get into one folder or another. Next, we will explain the deployment and installation for each type of user.

1.2 Passguard installation for the general public.

If we simply want to install the application and make it work on our device, and we don't care much about the code behind it, inside the Passguard folder we will go to the Installers folder. In that folder we will find, among other files, a file called Setup.exe. The Dependencies.txt file mentioned at the beginning shows the frameworks and files that must be installed for the application to run, otherwise it will not be installed:

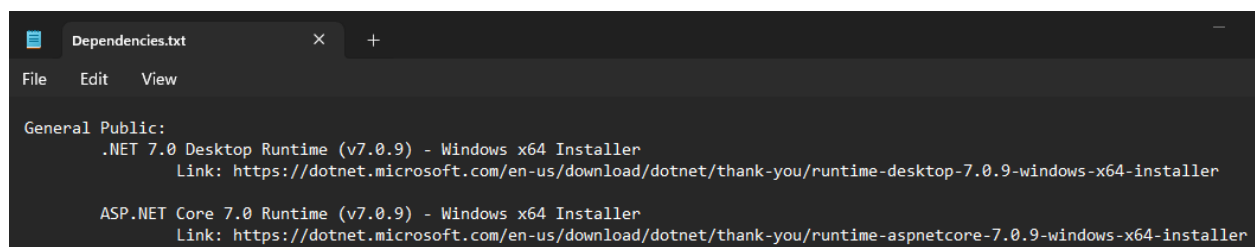


Figure 1.1: List of dependencies for the Passguard installer.

Once the user has installed the dependencies contained in the text file, he/she can then run the Setup.exe file to install Passguard. If the user does not have the dependencies installed and double-clicks on the installer, it will prompt the user for the dependencies, and

although it may appear that Passguard has been installed, the installer has done so partially, until the dependencies are installed and the application can be fully executed.


 Setup.exe	03-Sep-23 13:21	Application	15,375 KB
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Figure 1.2: Files to be used for Passguard installation.

The following are the links to the dependencies:

- .NET 7.0 Desktop Runtime (v7.0.9) - Windows x64 Installer
 - Link: <https://dotnet.microsoft.com/en-us/download/dotnet/thank-you/runtime-desktop-7.0.9-windows-x64-installer>
- ASP.NET Core 7.0 Runtime (v7.0.9) - Windows x64 Installer
 - Link: <https://dotnet.microsoft.com/en-us/download/dotnet/thank-you/runtime-aspnetcore-7.0.9-windows-x64-installer>

The installer itself has no additional steps, it will simply install the application and leave an icon on the desktop. In case you want to uninstall the application, the user can go to the Windows Control Panel, or to the Add or Remove programs section in the Windows settings, search for Passguard and uninstall it easily.

1.3 Passguard deployment for developers.

In case we want to see and test the Passguard code in our environment, we will have to open the SourceCode folder in the Passguard folder. The application has been developed with version 7.0 of Microsoft's .NET SDK, and to use this .NET you need to have Visual Studio 2022 as an integrated development environment. In the Dependencies.txt file the dependencies and programs required for this type of users are noted:

```
Developers:
.NET SDK 7.0 - Windows x64 Installer
  Link: https://dotnet.microsoft.com/es-es/download/dotnet/thank-you/sdk-7.0.400-windows-x64-installer
Visual Studio 2022 - Windows x64 Installer
  Link: https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&channel=Release&version=VS2022
&source=VSLandingPage
```

Figure 1.3: List of programs and dependencies for developers in Passguard.

The following are the links to the dependencies:

- .NET SDK 7.0 - Windows x64 Installer
 - Link: <https://dotnet.microsoft.com/es-es/download/dotnet/thank-you/sdk-7.0.400-windows-x64-installer>
- Visual Studio 2022 - Windows x64 Installer
 - Link: <https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&channel=Release&version=VS2022&source=VSLandingPage>

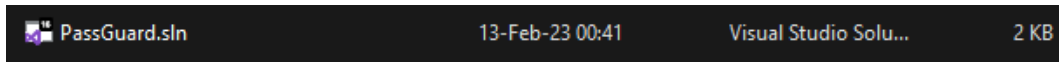


Figure 1.4: PassGuard solution file, must be opened with Visual Studio 2022.

Inside the SourceCode folder we will have multiple folders, we will enter the Passguard folder and we will look for the file called PassGuard.sln, this is the file that we will have to open with Visual Studio 2022 and .NET7.0. The path to this file will be Passguard ->SourceCode ->PassGuard ->PassGuard.sln.

Once this file is opened with Visual Studio, you will have access to the different classes and to the Passguard project. To run it, choose the Any CPU version and in Release mode and click on Run without debugging:

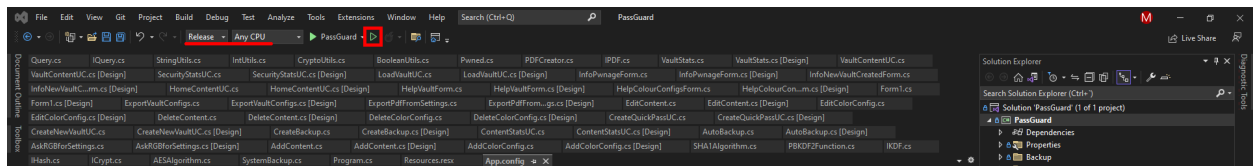


Figure 1.5: Configuration of Visual Studio 2022 to run the Passguard project.

With this, Passguard will have been successfully executed using an integrated development environment IDE and its software development kit SDK.