

PortScanner

Software Documentation

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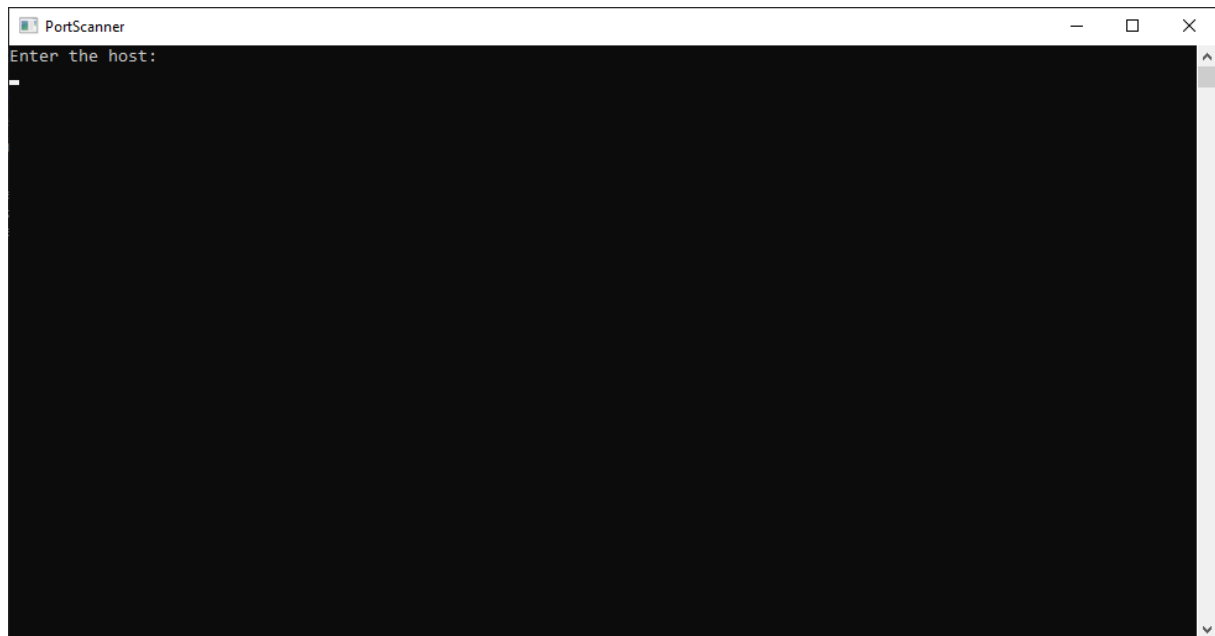
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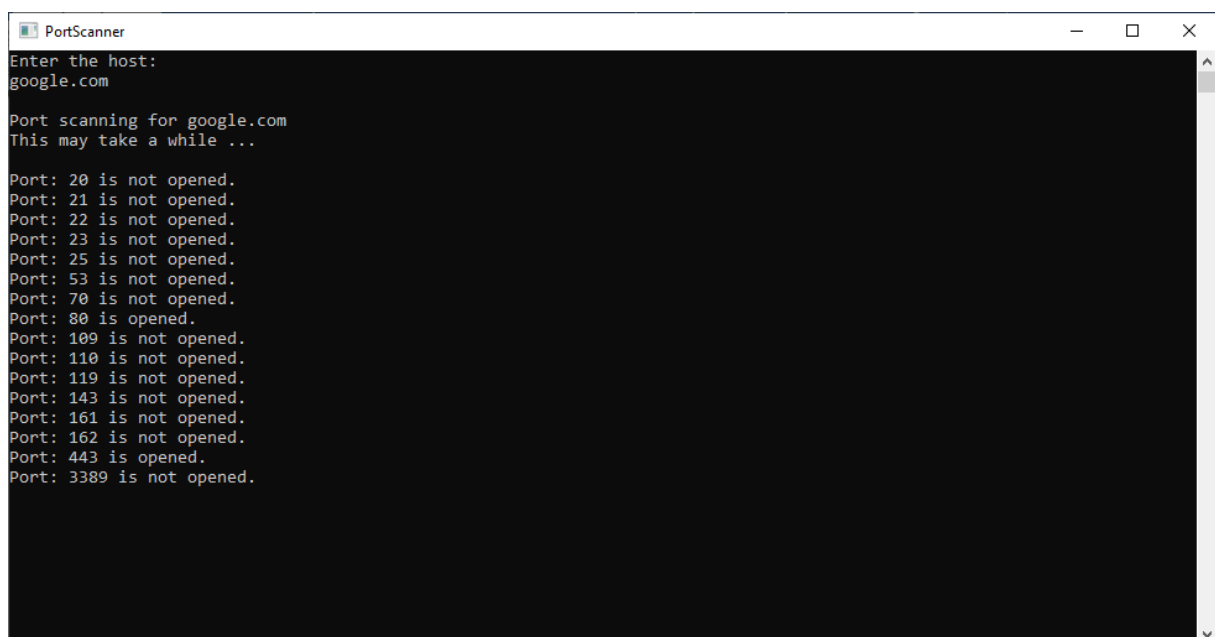
Introduction

This application is used to scan selected open ports of a remote host.

Describing of the application's operation



Drawing 1: The beginning of the application's operation [own study]



Drawing 2: The effect of the program's work [own study]

After starting the program, the user enters the name of the remote host (website). The effects of the program work slowly. The application displays whether the given ports are open on the remote host side - or not. It's about ports 20, 21, 22, 23, 25, 53, 70, 80, 109, 110, 119, 143, 161, 162, 443 and 3389. Certainly there are some bugs that the developer did not discover while working on the application.

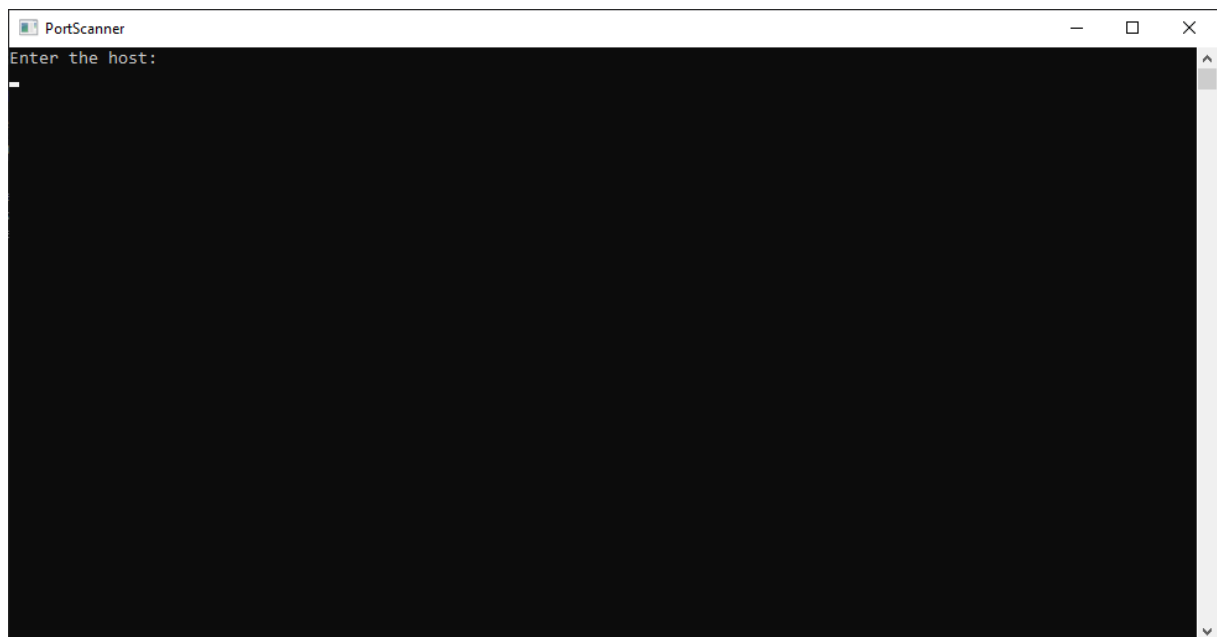
What is needed for use?

The application does not require installation. It only needs the Windows operating system.

Algorithm used

The basic form of the algorithm can be deduced from the previous section. It only needs the Windows operating system. In summary, the application displays information whether the selected ports are open on the remote host side. These are the following ports: 20, 21, 22, 23, 25, 53, 70, 80, 109, 110, 119, 143, 161, 162, 443 and 3389.

Interface description



Drawing 3: Graphical interface [own study]

The interface is typical for a Console Application.

Source code description

The project was made in the C# programming language, in the Visual Studio Community 2017 programming environment. All work was done on the Windows 10 operating system. The application's source code looks like this.

```
using System;
using System.Net.Sockets;

namespace PortScanner
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.Title = "PortScanner";
            short[] ListaPortow = { 20, 21, 22, 23, 25, 53, 70, 80, 109, 110, 119,
143, 161, 162, 443, 3389 };
            Console.WriteLine("Enter the host:");
            string host = Console.ReadLine();
            Console.WriteLine("\r\nPort scanning for {0}", host);
            Console.WriteLine("This may take a while ...\r\n");
            foreach(short port in ListaPortow)
            {
                try
                {
                    TcpClient klient = new TcpClient(host, port);
                    Console.WriteLine("Port: {0} is opened.",port);
                }
                catch
                {
                    Console.WriteLine("Port: {0} is not opened.", port);
                }
            }
            Console.ReadKey();
        }
    }
}
```

Listing 1: Source code [own study]

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