Visual Studio 2022 Offline Installation

Here are steps to install Visual Studio 2022 in an offline environment.

It involved creating a layout fileset, which is what the installer runs from.
This is created by a bootstrap executable, below.

Layout Download

From a machine with internet access, download the installer bootstrapper from here:

https://learn.microsoft.com/en-us/visualstudio/install/create-a-network-installation-of-visual-studio?view=vs-2022#download-the-visual-studio-bootstrapper-to-create-the-layout

Place the bootstrapper in a folder, where your layout will be.

Open an elevated terminal, and run this, to download the initial offline set:

```
"vs_professional.exe" --LayOut "C:\Programs\VisualStudio2022\VS2022_OfflineInstall\layout" --lang en-US
```

> NOTE: This downloads all packages for that version.

Once that is downloaded, you will need to add packages for legacy NET Framework support.
Use this:

```
"vs_professional.exe" --LayOut "C:\Programs\VisualStudio2022\VS2022_OfflineInstall\layout" ^
  --add Microsoft.Net.Component.4.6.2.TargetingPack ^
  --add Microsoft.Net.Component.4.7.2.TargetingPack ^
  --add Microsoft.Net.Component.4.8.TargetingPack ^
  --add Microsoft.Net.Component.4.8.SDK ^
  --add Microsoft.Net.Component.4.8.1.TargetingPack ^
  --add Microsoft.Net.Component.4.8.1.SDK ^
  --lang en-US
```

This will attempt to add packages for NET Framework 4.5.2:

```
"vs_professional.exe" --LayOut "C:\Programs\VisualStudio2022\VS2022_OfflineInstall\layout" ^
  --add Microsoft.Net.Component.4.5.2.TargetingPack ^
  --lang en-US
```

Copy to Target

Copy the downloaded bootstrapper and layout fileset to the target machine.

Install Certificates

On the offline machine, navigate to the certificates folder: Certificates → install
Install the .cer files from the layout\Certificates folder into Trusted Root and Trusted Publishers on the offline machine.

Install WebView2 Runtime

The installer UI requires WebView2 Runtime.
Download the Evergreen Standalone installer for x64 on a connected machine.
Copy it to the offline machine, and run it once on the offline box before launching VS setup.

Run Installer

Run the bootstrapper command, to start the offline installer UI:

```
"vs_professional.exe" --noWeb
```

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