

Instalátory Windows

Petr Veigend
David Grochol

Brno University of Technology, Faculty of Information Technology
Božetěchova 1/2, 612 66 Brno - Královo Pole
lveigend@fit.vut.cz

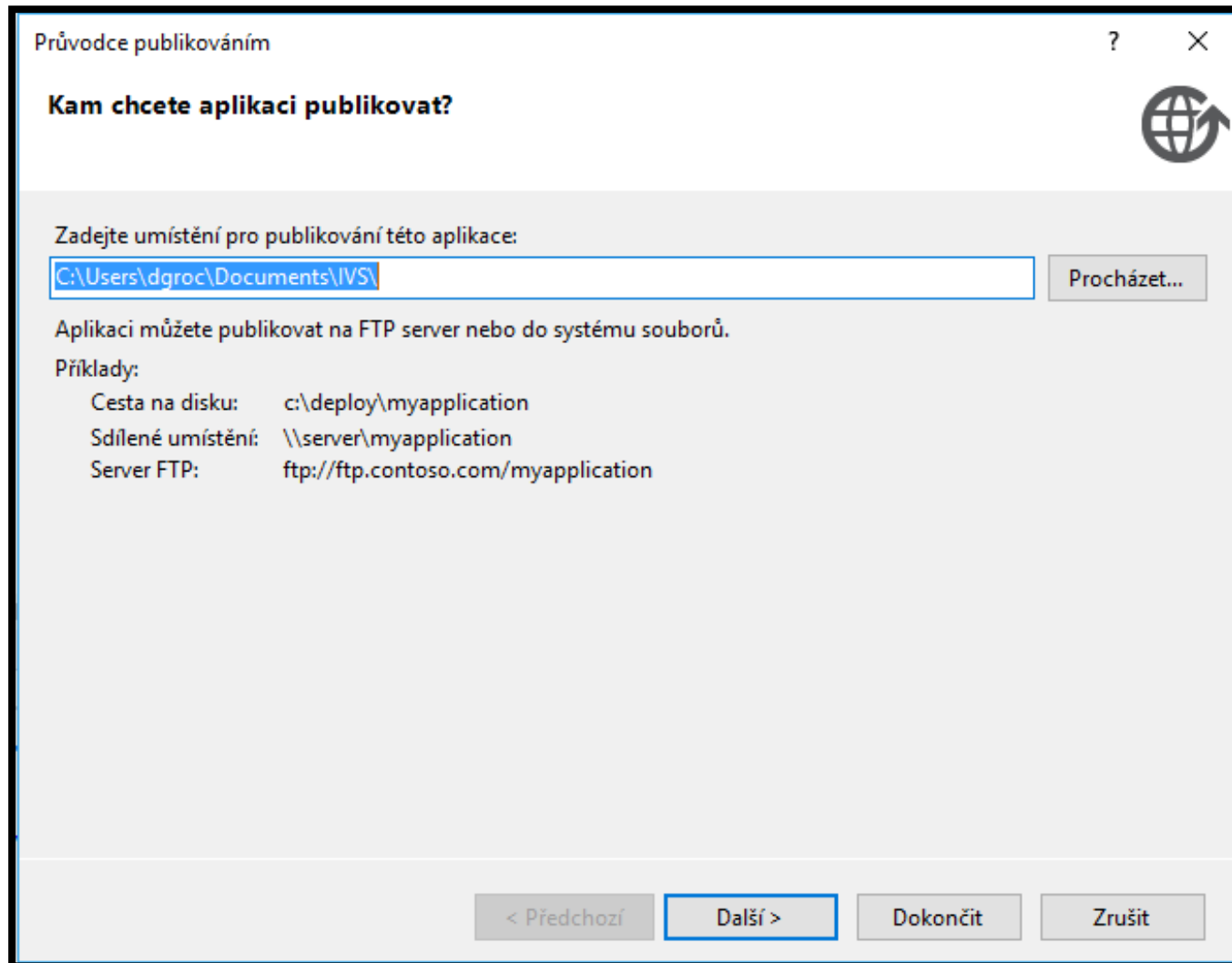


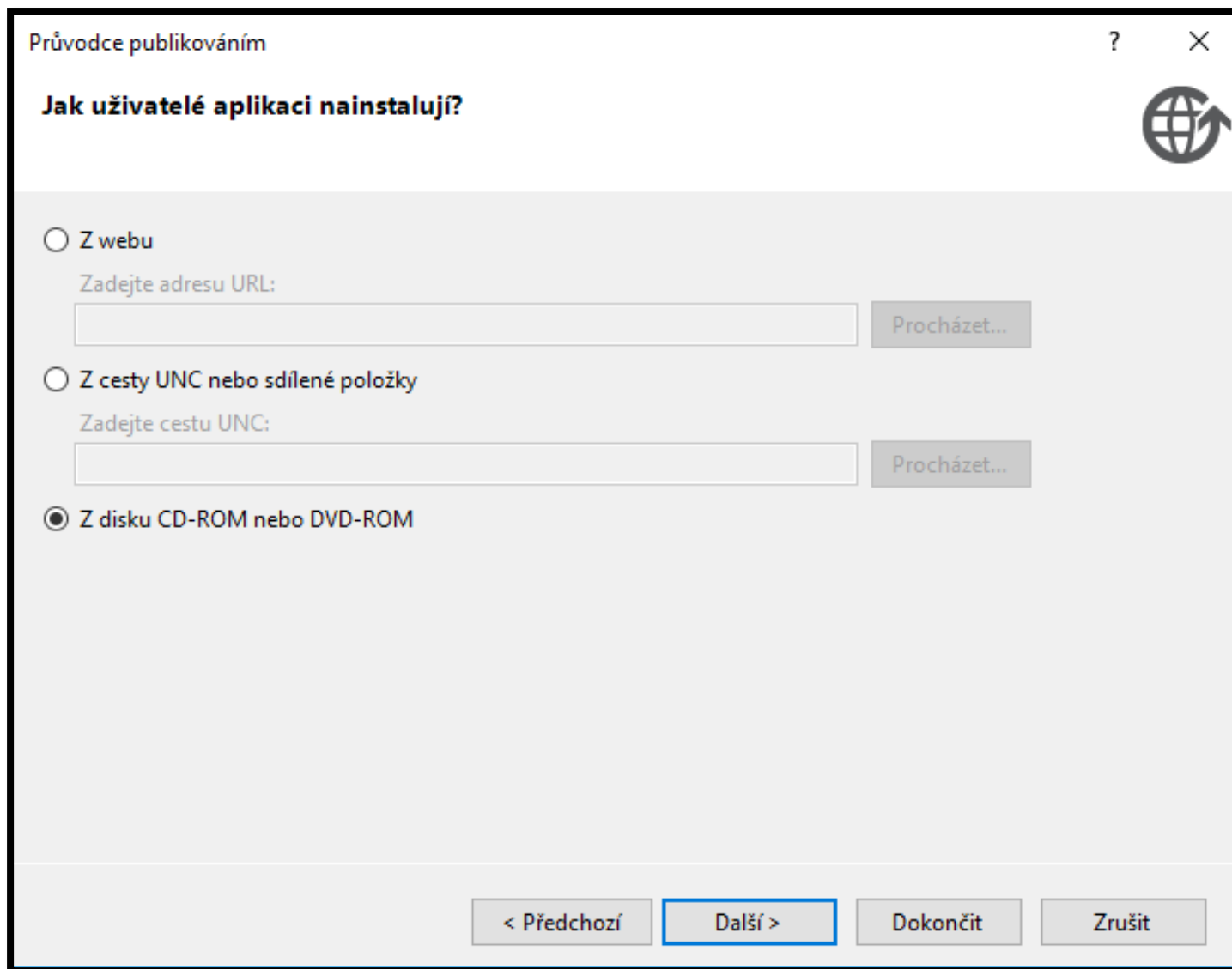
7.4.2021

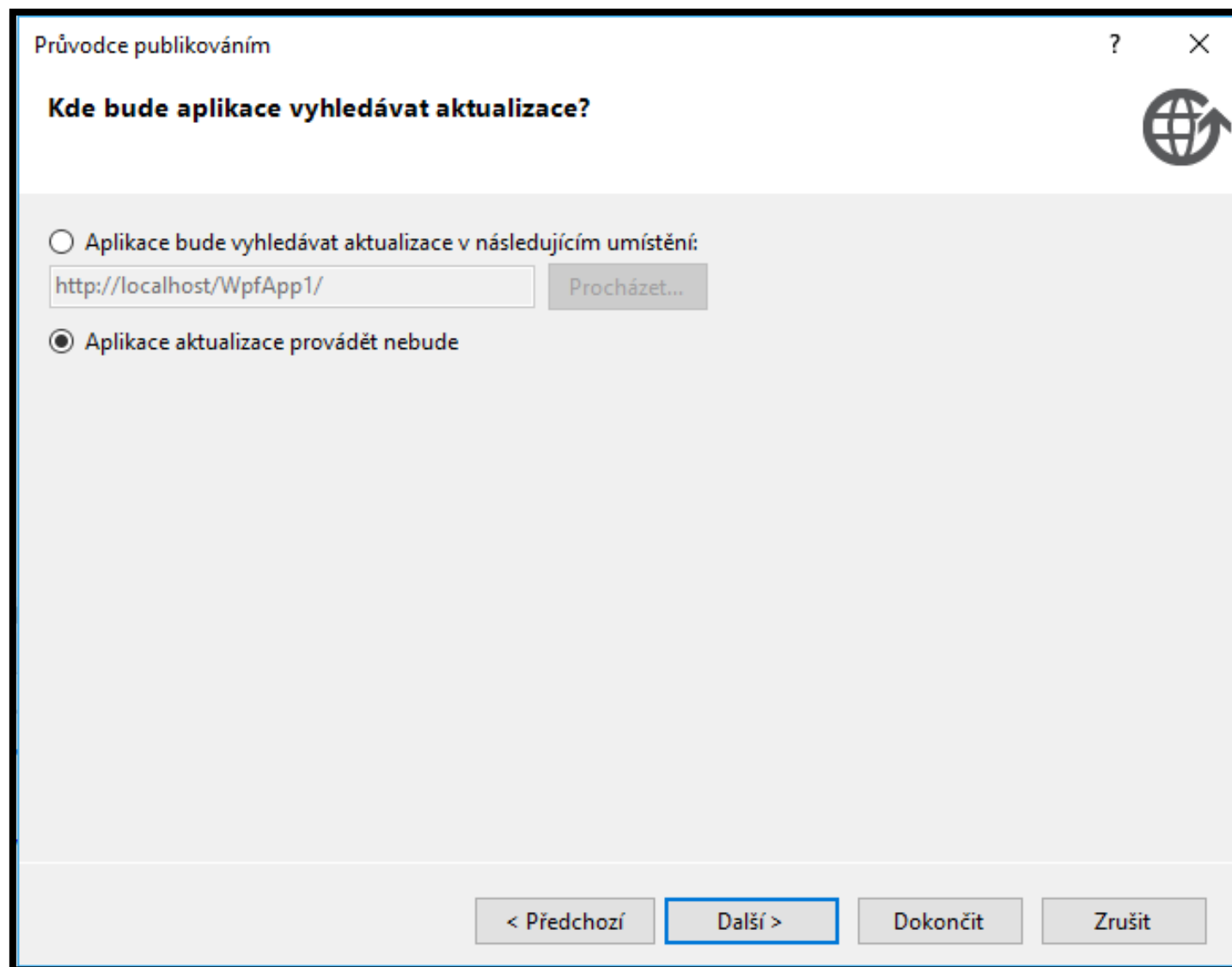
VISUAL STUDIO

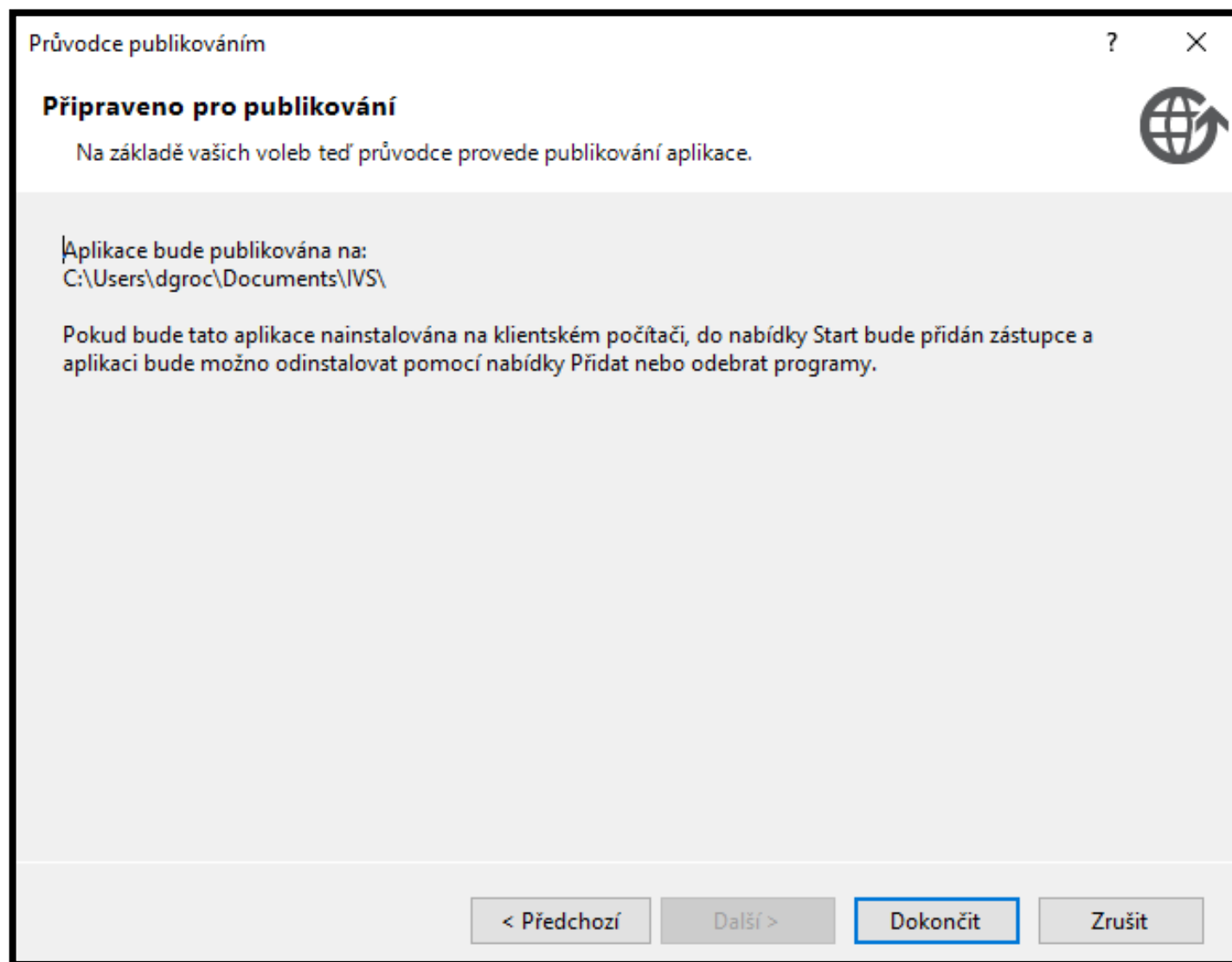
Microsoft Visual Studio 2019

- Sestavit -> Publikovat...









- Omezené možnosti nastavení
- Velmi jednoduchý instalátor

The screenshot shows the 'Publish' tab of the Visual Studio Publish Wizard. The left sidebar contains a list of options: Application, Build, Build Events, Debug, Resources, Services, Settings, Reference Paths, Signing, Security, Publish (highlighted), and Code Analysis. The main area is divided into sections: 'Configuration' with 'Configuration: N/A' and 'Platform: N/A'; 'Publish Location' with 'Publishing Folder Location (ftp server or file path): publish\' and 'Installation Folder URL (if different than above):'; 'Install Mode and Settings' with two radio buttons ('The application is available online only' and 'The application is available offline as well (launchable from Start menu)' which is selected) and four buttons ('Application Files...', 'Prerequisites...', 'Updates...', 'Options...'); and 'Publish Version' with fields for Major (1), Minor (0), Build (0), and Revision (0), and a checked checkbox 'Automatically increment revision with each publish'. At the bottom right are 'Publish Wizard...' and 'Publish Now' buttons.

Application
Build
Build Events
Debug
Resources
Services
Settings
Reference Paths
Signing
Security
Publish
Code Analysis

Configuration: N/A Platform: N/A

Publish Location

Publishing Folder Location (ftp server or file path):
publish\'

Installation Folder URL (if different than above):

Install Mode and Settings

☐ The application is available online only

☒ The application is available offline as well (launchable from Start menu)

Application Files...
Prerequisites...
Updates...
Options...

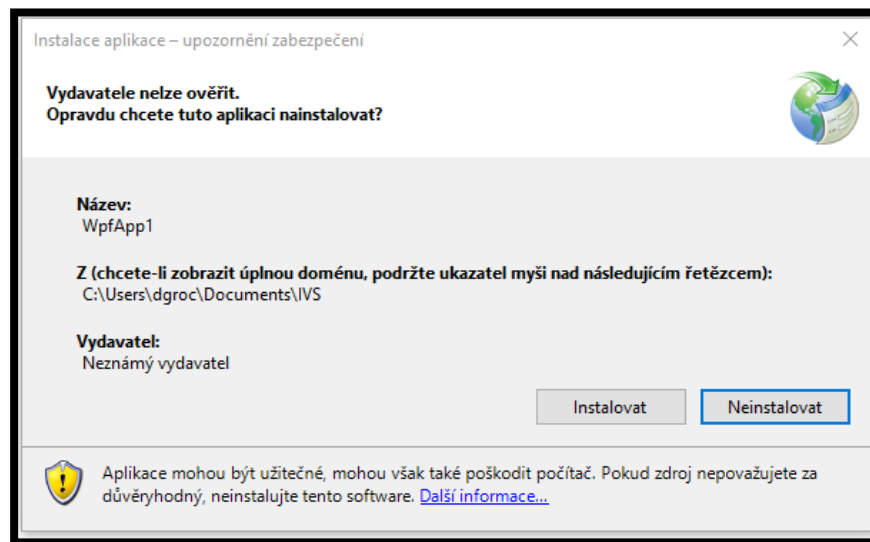
Publish Version

Major: 1 Minor: 0 Build: 0 Revision: 0

☒ Automatically increment revision with each publish

Publish Wizard... Publish Now

- Nelze skoro nic nastavit
- Velmi jednoduchý instalátor

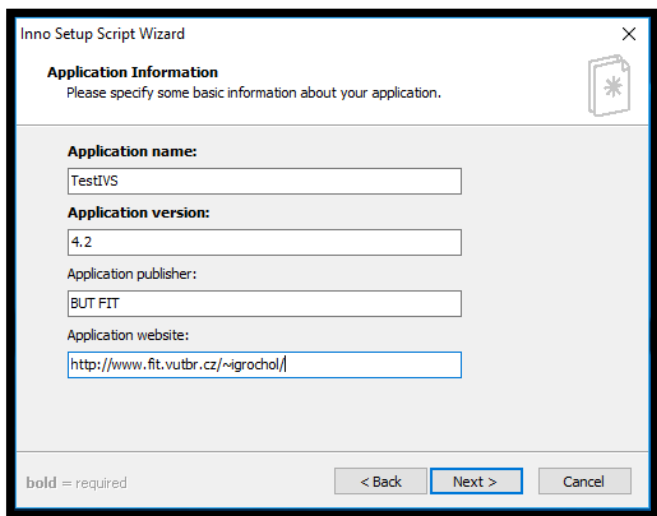


INNO SETUP

[HTTP://WWW.JRSOFTWARE.ORG/ISINFO.PHP](http://www.jrsoftware.org/isinfo.php)

- Vytváření instalátorů pro Windows
- od roku 1997 do současnosti (03/2020, verze 6.0.4)
- Obsahuje grafického průvodce pro vytváření
- Možnost skriptování
 - Kontrola závislostí, systému atd.
- Podpora velkého množství jazyků (čeština apod.)
- Ukázkové příklady a tutoriály
- Kvalitní dokumentace
- Volně přístupné zdrojové kódy
 - Github (<https://github.com/jrsoftware/issrc>)

1



Inno Setup Script Wizard

Application Information
Please specify some basic information about your application.

Application name:
TestIVS

Application version:
4.2

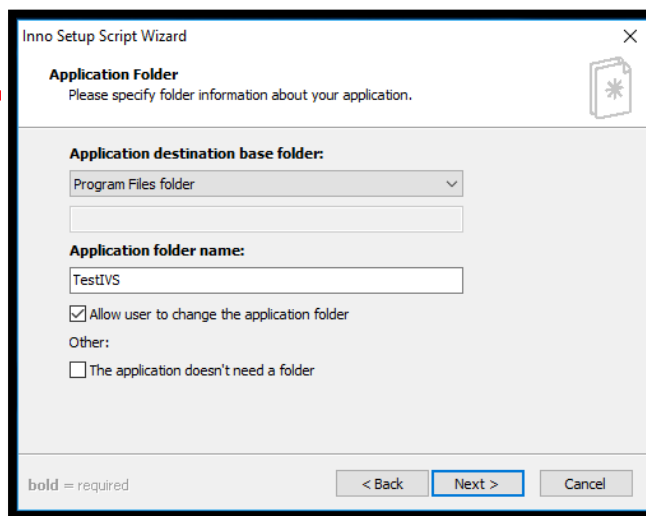
Application publisher:
BUT FIT

Application website:
<http://www.fit.vutbr.cz/~igrochol/>

bold = required

< Back Next > Cancel

2



Inno Setup Script Wizard

Application Folder
Please specify folder information about your application.

Application destination base folder:
Program Files folder

Application folder name:
TestIVS

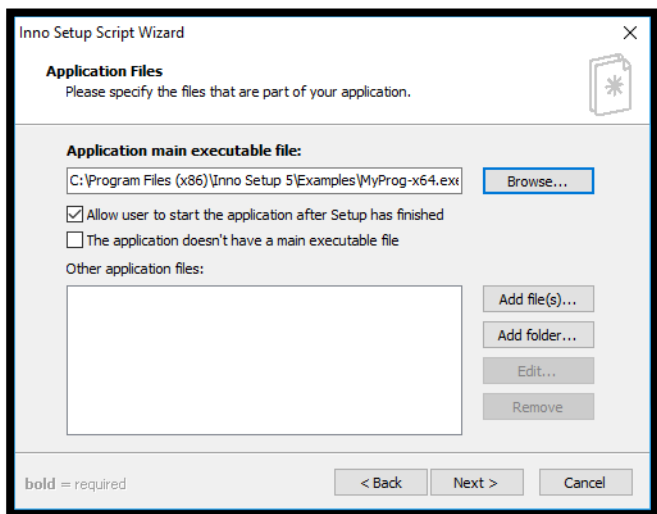
☒ Allow user to change the application folder

Other:
☐ The application doesn't need a folder

bold = required

< Back Next > Cancel

3



Inno Setup Script Wizard

Application Files
Please specify the files that are part of your application.

Application main executable file:
C:\Program Files (x86)\Inno Setup 5\Examples\MyProg-x64.exe Browse...

☒ Allow user to start the application after Setup has finished

☐ The application doesn't have a main executable file

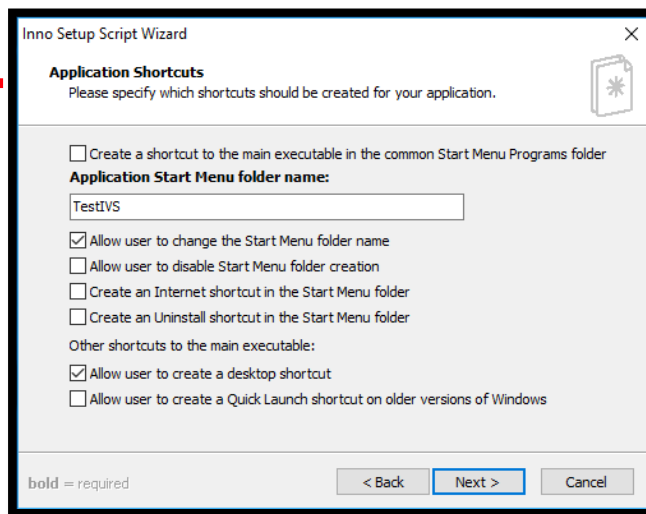
Other application files:

Add file(s)...
Add folder...
Edit...
Remove

bold = required

< Back Next > Cancel

4



Inno Setup Script Wizard

Application Shortcuts
Please specify which shortcuts should be created for your application.

☐ Create a shortcut to the main executable in the common Start Menu Programs folder

Application Start Menu folder name:
TestIVS

☒ Allow user to change the Start Menu folder name

☐ Allow user to disable Start Menu folder creation

☐ Create an Internet shortcut in the Start Menu folder

☐ Create an Uninstall shortcut in the Start Menu folder

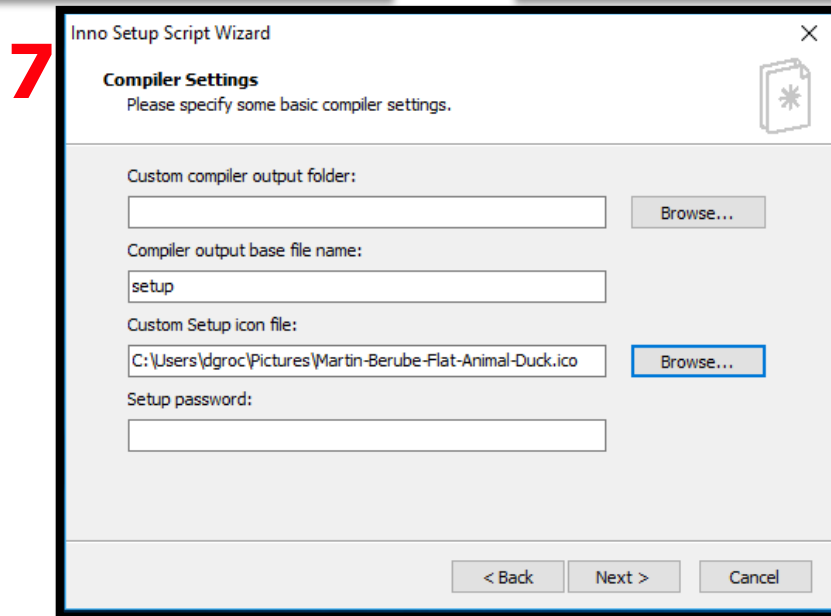
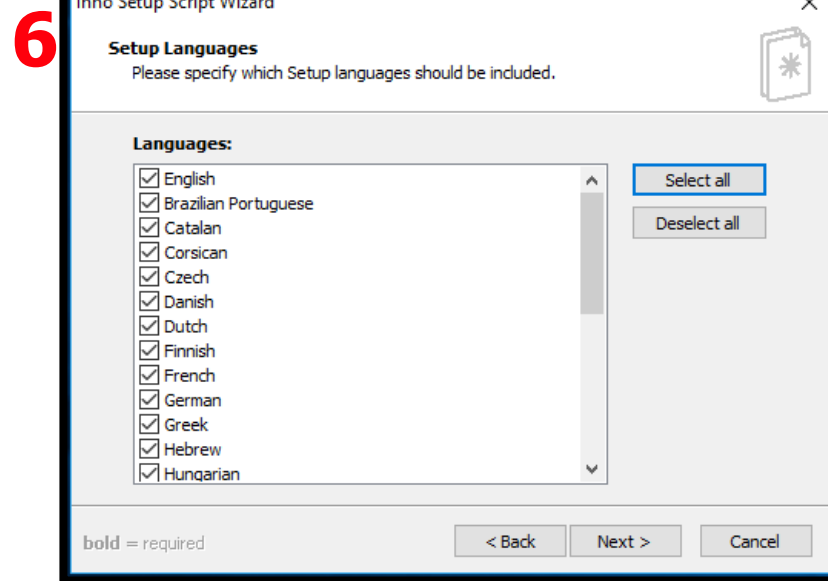
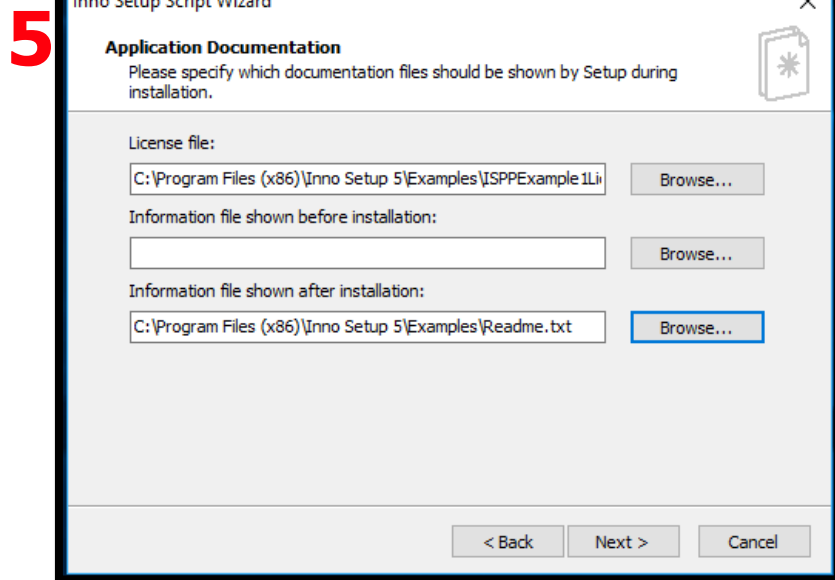
Other shortcuts to the main executable:

☒ Allow user to create a desktop shortcut

☐ Allow user to create a Quick Launch shortcut on older versions of Windows

bold = required

< Back Next > Cancel



```
#define MyAppName "TestIVS"
#define MyAppVersion "4.2"
#define MyAppPublisher "BUT FIT"
#define MyAppURL "http://www.fit.vutbr.cz/~igrochol/"
#define MyAppExeName "MyProg-x64.exe"

[Setup]
AppId={{3C996FD1-AD46-4674-8064-D4BB2D9D1C6F}}
AppName={#MyAppName}
AppVersion={#MyAppVersion}
AppPublisher={#MyAppPublisher}
AppPublisherURL={#MyAppURL}
AppSupportURL={#MyAppURL}
AppUpdatesURL={#MyAppURL}
DefaultDirName={pf}\{#MyAppName}
DefaultGroupName={#MyAppName}
LicenseFile=C:\Program Files (x86)\Inno Setup 5\Examples\ISPPExample1License.txt
InfoAfterFile=C:\Program Files (x86)\Inno Setup 5\Examples\Readme.txt
OutputBaseFilename=setup
SetupIconFile=C:\Users\dgroc\Pictures\Martin-Berube-Flat-Animal-Duck.ico
Compression=lzma
SolidCompression=yes

[Languages]
Name: "english"; MessagesFile: "compiler:Default.isl"
Name: "brazilianportuguese"; MessagesFile: "compiler:Languages\BrazilianPortuguese.isl"
Name: "catalan"; MessagesFile: "compiler:Languages\Catalan.isl"
Name: "corsican"; MessagesFile: "compiler:Languages\Corsican.isl"
Name: "czech"; MessagesFile: "compiler:Languages\Czech.isl"
Name: "danish"; MessagesFile: "compiler:Languages\Danish.isl"
Name: "dutch"; MessagesFile: "compiler:Languages\Dutch.isl"
Name: "finnish"; MessagesFile: "compiler:Languages\Finnish.isl"
Name: "french"; MessagesFile: "compiler:Languages\French.isl"
Name: "german"; MessagesFile: "compiler:Languages\German.isl"
Name: "greek"; MessagesFile: "compiler:Languages\Greek.isl"
Name: "hebrew"; MessagesFile: "compiler:Languages\Hebrew.isl"
Name: "hungarian"; MessagesFile: "compiler:Languages\Hungarian.isl"
Name: "italian"; MessagesFile: "compiler:Languages\Italian.isl"
Name: "japanese"; MessagesFile: "compiler:Languages\Japanese.isl"
Name: "norwegian"; MessagesFile: "compiler:Languages\Norwegian.isl"
Name: "polish"; MessagesFile: "compiler:Languages\Polish.isl"
Name: "portuguese"; MessagesFile: "compiler:Languages\Portuguese.isl"
Name: "russian"; MessagesFile: "compiler:Languages\Russian.isl"
Name: "scottishgaelic"; MessagesFile: "compiler:Languages\ScottishGaelic.isl"
Name: "serbiancyrillic"; MessagesFile: "compiler:Languages\SerbianCyrillic.isl"
Name: "serbianlatin"; MessagesFile: "compiler:Languages\SerbianLatin.isl"
Name: "slovenian"; MessagesFile: "compiler:Languages\Slovenian.isl"
Name: "spanish"; MessagesFile: "compiler:Languages\Spanish.isl"
Name: "turkish"; MessagesFile: "compiler:Languages\Turkish.isl"
Name: "ukrainian"; MessagesFile: "compiler:Languages\Ukrainian.isl"

[Tasks]
Name: "desktopicon"; Description: "{cm:CreateDesktopIcon}"; GroupDescription: "{cm:AdditionalIcons}"; Flags: unchecked

[Files]
Source: "C:\Program Files (x86)\Inno Setup 5\Examples\MyProg-x64.exe"; DestDir: "{app}"; Flags: ignoreversion
; NOTE: Don't use "Flags: ignoreversion" on any shared system files

[Icons]
Name: "{group}\{#MyAppName}"; Filename: "{app}\{#MyAppExeName}"
Name: "{commondesktop}\{#MyAppName}"; Filename: "{app}\{#MyAppExeName}"; Tasks: desktopicon

[Run]
Filename: "{app}\{#MyAppExeName}"; Description: "{cm:LaunchProgram,{StringChange(MyAppName, '&', '&&')}}"; Flags: nowait postinstall skipifsilent
```

• Kontrola .NET

- <https://blogs.msdn.microsoft.com/davidrickard/2015/07/17/installing-net-framework-4-5-automatically-with-inno-setup/>

```
#include <idp.iss>

[Code]
function Framework45IsNotInstalled(): Boolean;
var
  bSuccess: Boolean;
  regVersion: Cardinal;
begin
  Result := True;

  bSuccess := RegQueryQWordValue(HKLM, 'Software\Microsoft\NET Framework Setup\NDP\v4\Full', 'Release', regVersion);
  if (True = bSuccess) and (regVersion >= 378389) then begin
    Result := False;
  end;
end;

procedure InitializeWizard;
begin
  if Framework45IsNotInstalled() then
  begin
    idpAddFile('http://go.microsoft.com/fwlink/?LinkId=397707', ExpandConstant('{tmp}\NetFrameworkInstaller.exe'));
    idpDownloadAfter(wpReady);
  end;
end;

procedure InstallFramework;
var
  StatusText: string;
  ResultCode: Integer;
begin
  StatusText := WizardForm.StatusLabel.Caption;
  WizardForm.StatusLabel.Caption := 'Installing .NET Framework 4.5.2. This might take a few minutes...';
  WizardForm.ProgressGauge.Style := npbstMarquee;
  try
    if not Exec(ExpandConstant('{tmp}\NetFrameworkInstaller.exe'), '/passive /norestart', '', SW_SHOW, ewWaitUntilTerminated, ResultCode) then
    begin
      MsgBox('NET installation failed with code: ' + IntToStr(ResultCode) + '.', mbError, MB_OK);
    end;
  finally
    WizardForm.StatusLabel.Caption := StatusText;
    WizardForm.ProgressGauge.Style := npbstNormal;

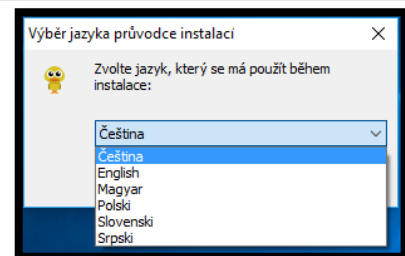
    DeleteFile(ExpandConstant('{tmp}\NetFrameworkInstaller.exe'));
  end;
end;

procedure CurStepChanged(CurStep: TSetupStep);
begin
  case CurStep of
    ssPostInstall:
      begin
        if Framework45IsNotInstalled() then
        begin
          InstallFramework();
        end;
      end;
  end;
end;
```

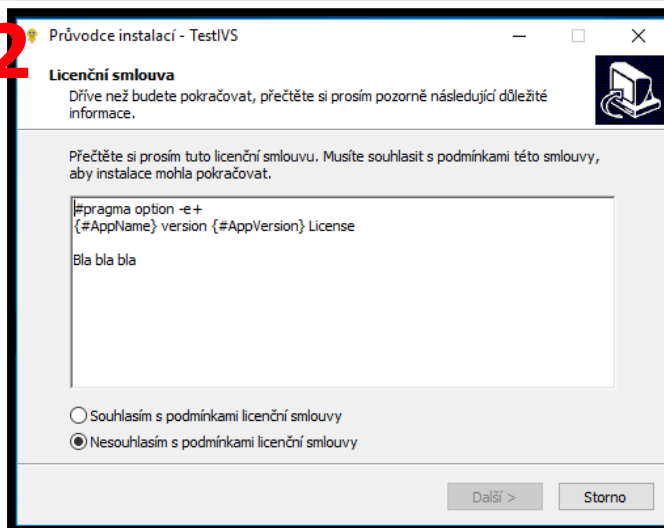
- Kontrola .NET

<https://stackoverflow.com/questions/20752882/how-can-i-install-net-framework-as-a-prerequisite-using-innosetup>

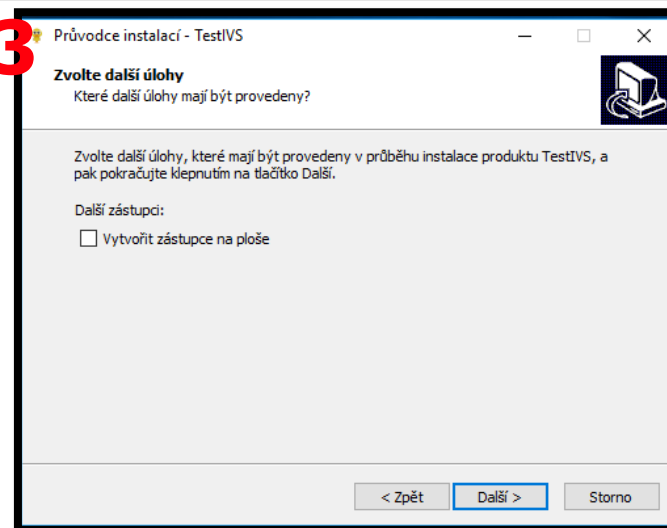
1



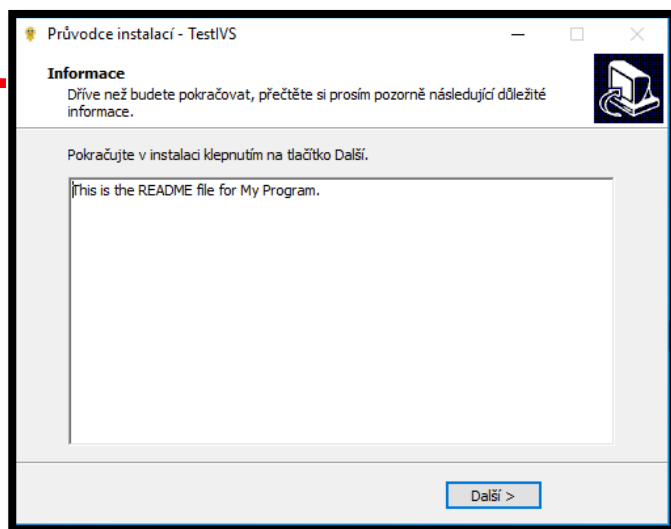
2



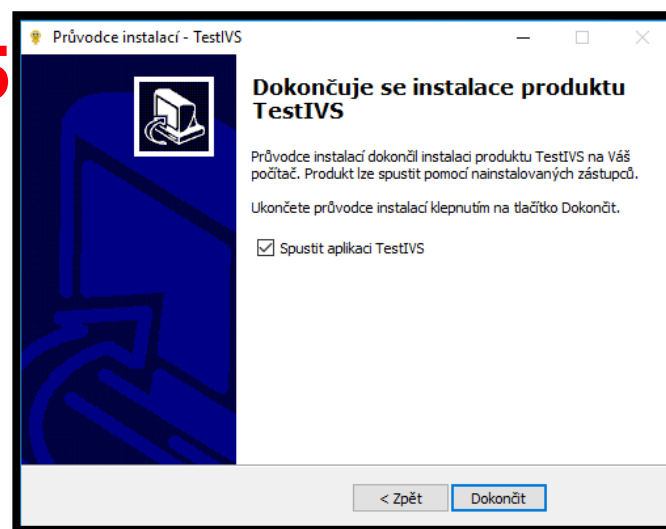
3



4



5



- NSIS (Nullsoft Scriptable Install System)
 - http://nsis.sourceforge.net/Main_Page
- InstallShield
 - <https://www.flexerasoftware.com/producer/products/software-installation/installshield-software-installer/>
- InstallAware
 - <https://www.installaware.com/visual-studio-installer-2015.htm>
- Advanced Installer
 - <http://www.advancedinstaller.com/>

Děkuji za pozornost