

# PC Setup guide

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This guide describes how to setup a development environment for BOMi developers.



TODO: This documentation is not complete; still need to incorporate stuff from existing Word documents.

# Software prerequisites

This chapter describes software prerequisites against developer PC images (as of Jan 2017).

## Powershell

We use Powershell 5.0 for administration and build scripts.

To determine the version of Powershell you have, open up a Powershell console and paste in:

```
function Get-PSVersion {  
    if (test-path variable:psversiontable) {$psversiontable.psversion} else {[  
version]"1.0.0.0"}  
}
```

and then type:

```
Get-PSVersion
```

If you don't have Powershell 5.0, you can download and install from [Microsoft downloads](#) (part of Windows Management Framework 5.0).

The file to download and install is [Win7AndW2K8R2-KB3134760-x64.msu](#).

Right click on the generated shortcuts and use **Properties > Shortcut | Advanced > Run as administrator**. Do this for both x64 (64-bit) and x86 (32-bit) versions.

## Powershell Profile

The Powershell scripts provided by REM team are packaged as Powershell modules and deployed to the **Z:** drive (`\\vssdmrelease\release\dbrelease`). These are made available automatically (in all Powershell console windows) using a profile script.

To set up your environment:

```
notepad $profile
```

Then copy the contents of this provided `Microsoft.PowerShell_profile.ps1` into your own profile file.

Among other things the profile automatically imports two modules, "TFS" and "TFS2". These modules provide a number of "Get-TFS\*" cmdlets useful for interacting with the git repos hosted on TFS.

In the profile you will see:

```
$global:tfs = @{  
    root_url    = 'http://vssdmlivetfs:8080/tfs'  
    collection  = 'BomiLiveTFS'  
    project     = 'ReleaseEngineering'  
}
```

Adjust `$global:tfs.project` as necessary for the project you usually work on.

Then save.

To double check, start a new Powershell console, and confirm that the modules are available by typing:

```
Help-Sdm
```

## Chocolatey

[Chocolatey](#) is a package manager for Windows that leverages Powershell to allow tools and applications to be quickly installed.

To install Chocolatey itself (as per the [Chocolatey website](#)):

```
iwr https://chocolatey.org/install.ps1 -UseBasicParsing | iex
```

Then use Chocolatey to install the Chocolatey GUI

```
choco install chocolateygui
```



(I believe) this will also install the `chocolatey-core.extensions` as a side-effect.

## Standard Tools

Next, install the following using ChocolateyGUI (or Chocolatey from the command line if you prefer)

Purpose	Package Name	choco install ...	Description
General	7-zip	choco install 7zip	Create and extract .zip files
	Sysinternals	choco install sysinternals	Utilities to help manage, troubleshoot and diagnose Windows systems and applications
	Process Explorer	choco install procexp	Shows information about which handles and DLLs have been opened or loaded by processes.
	Process Monitor	choco install procmon	An advanced monitoring tool
	Greenshot	choco install greenshot	Tool for taking screenshots
	TreeSize Free	choco install treesizefree	View disk space utilization by folder
Source code control	Git	choco install git	Version control
	SourceTree	choco install SourceTree	Graphical front-end for git repositories. NB: to use this tool, you'll need to register for a (free) account at the Atlassian website.
Software development	Google Chrome	choco install googlechrome	Alternative web browser, with debugging tools useful for developers
	cURL	choco install curl	Command line tool for calling URLs (eg REST APIs)
	BareTail	choco install baretail	Real-time log file monitoring tool
	Visual Studio Code	choco install visualstudiocode	Microsoft's new lightweight and extensible editor.
Asciidoc authoring	Java SE	choco install jdk8	Java Development Kit, used to run AsciidocFX and to build Asciidoc documentation.
	Maven	choco install maven	Build tool for Java, used to build Asciidoc documentation.
	Graphviz - Graph Visualization Software	choco install graphviz	Diagramming tool
	Python	choco install python	Programming language; provides tools to help preview Asciidoc documentation when built locally.

There are many other tools available on Chocolatey that you might want to install; including:

- Azure support:
  - windowsazurepowershell

- [azurestorageexplorer](#)
- [mssqlservermanagementstudio2014express](#)
- [phantomjs](#)
- [console2](#)
- [cyberduck](#)
- Alternatives to BeyondCompare:
  - [winmerge](#)
    - [diffmerge](#)
    - [p4merge](#)
- Editors
  - [markdownpad2](#)
  - [linqpad5](#) (commercial)
- git support
  - [poshgit](#)
  - [tortoisegit](#)
  - [smartgit](#)

However, The following tools are blocked and cannot be installed:

- [paint.net](#)

## Visual Studio 2015

Install Visual Studio 2015, and reboot

- the link to the ISO image can be obtained from [Brendan Cowan](#).

Sign-in or sign up.

Extensions ([Tools > Extensions and Updates](#), select "Visual Studio gallery"):

- Powershell Tools for Visual Studio 2015

## AsciiDocFX

[AsciiDocFX](#) is a great tool for authoring both markdown and AsciiDoc documents. The document you are reading now was written using this tool.

To install, download the [install Exe](#) and run.

## Other tools?

These need licenses

- ncrunch
- resharper

Contact the Release Engineering team to see if any license are available.