

## Pre requirements

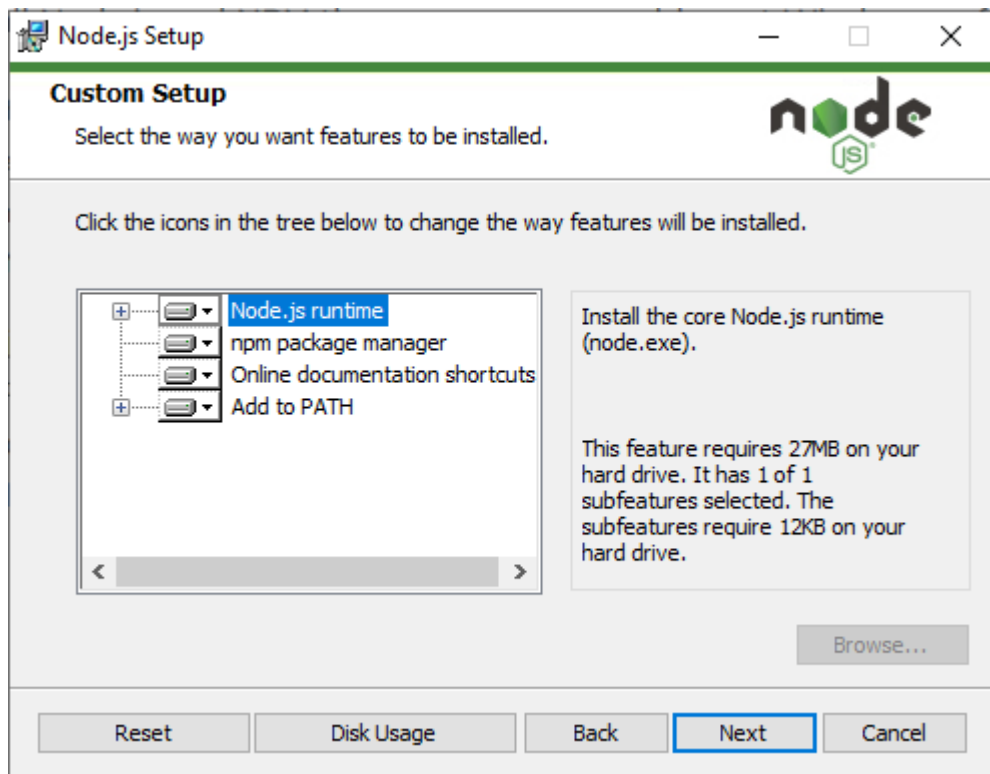
To prepare your system for this session you'll need NodeJS, VS Code, Postman and some other packages.

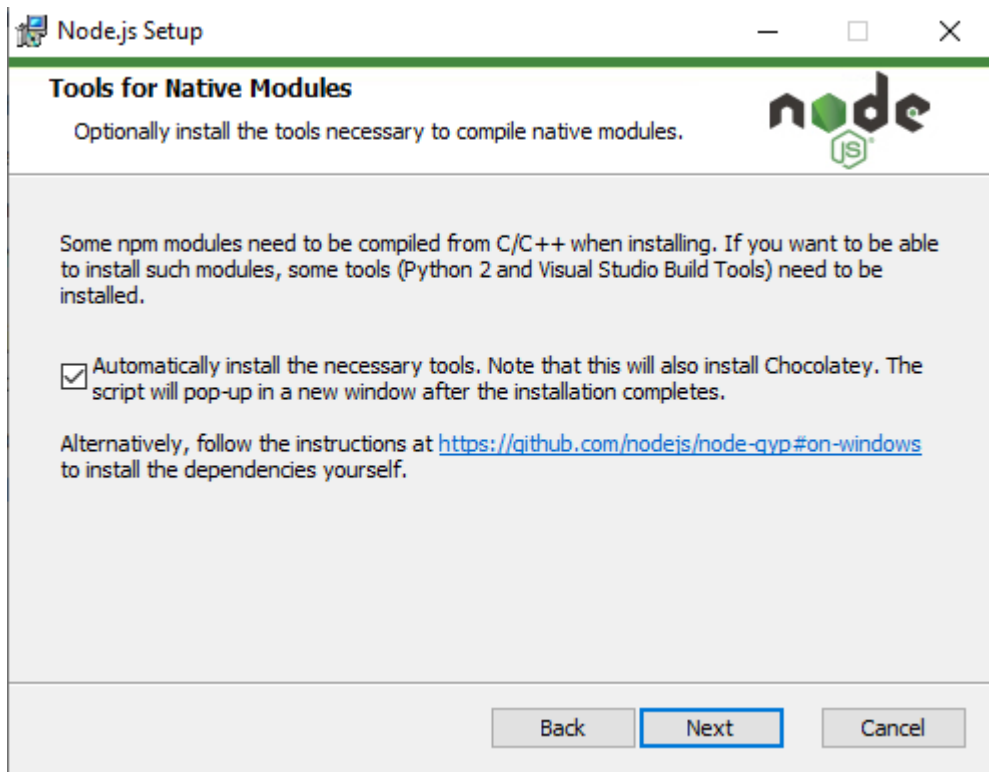
Please follow this guide to install all the right tools and versions.

Links provided in this guide are valid and tested for Windows 10 systems.

## NodeJS

Node 12.14.1 <https://nodejs.org/dist/v12.14.1/node-v12.14.1-x64.msi>





## Postman

Postman 7.16.1 <https://dl.pstmn.io/download/latest/win64> (accept the defaults).

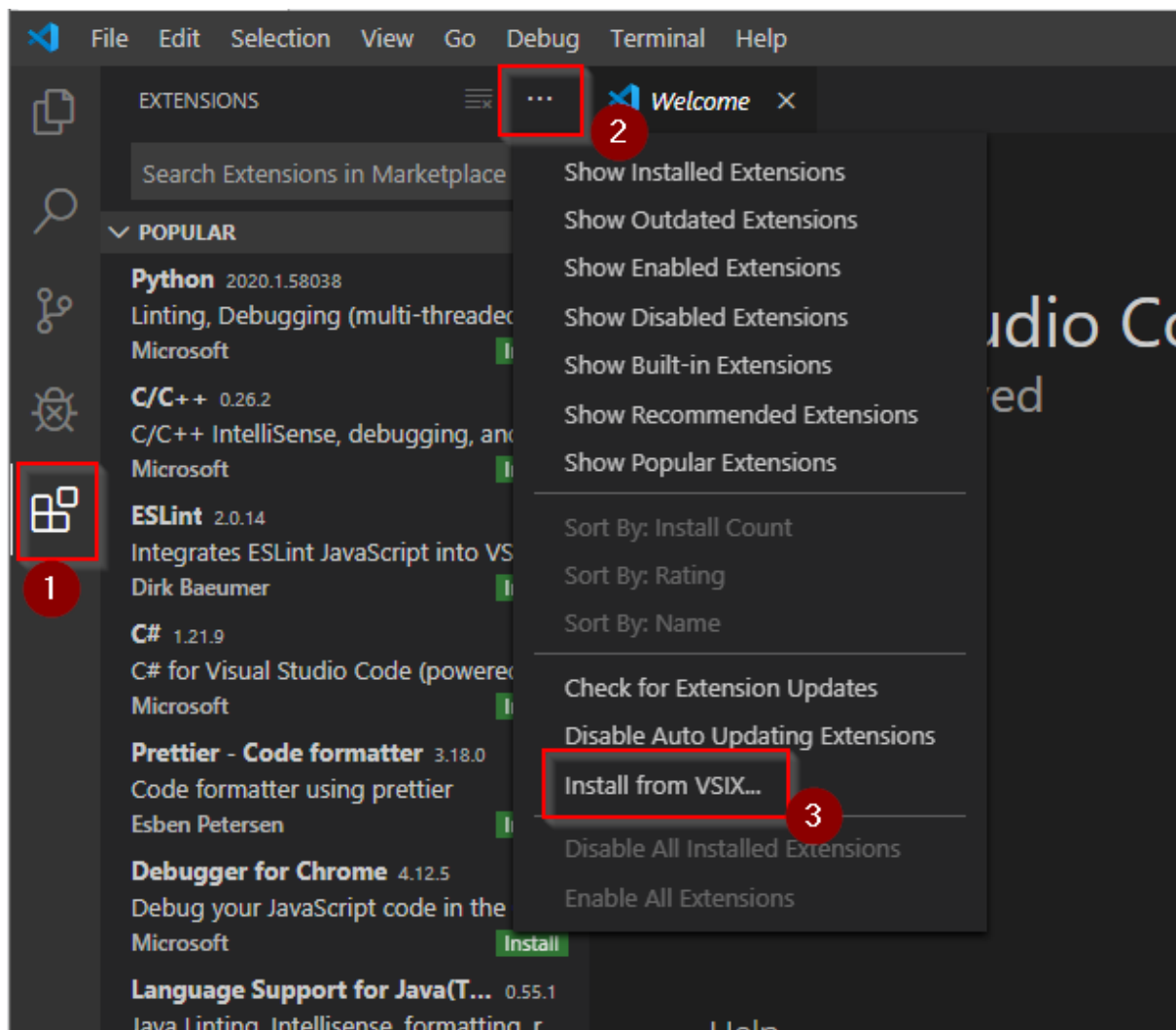
## VS Code and plugin

Install Visual Studio Code: <https://code.visualstudio.com/docs/?dv=win64user> (accept the defaults)

Download the plugin CDS Language Support for Visual Studio Code:

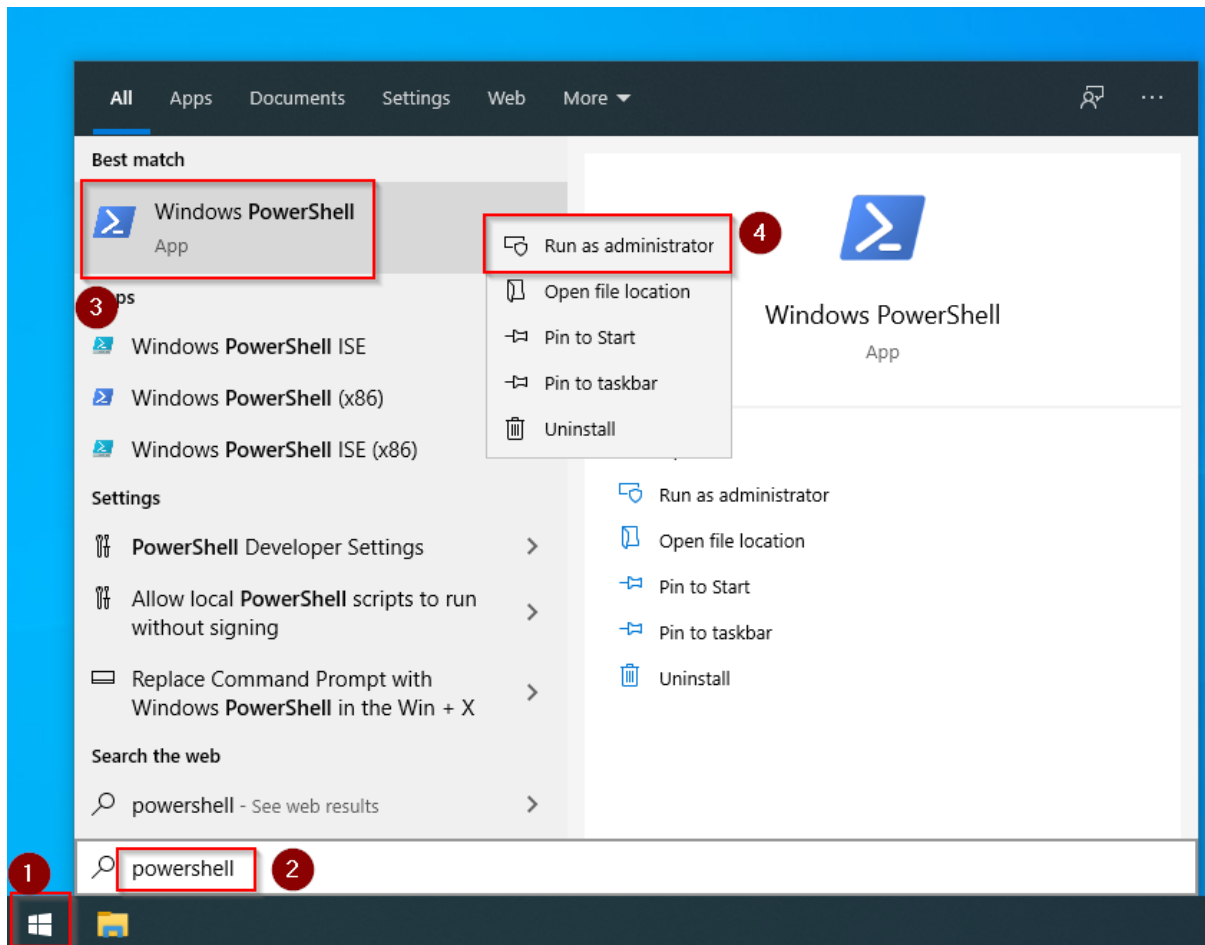
<https://tools.hana.ondemand.com/additional/vscode-cds-updateSite/vscode-cds-1.4.0.vsix>

Install the plugin by adding it via the extensions menu:



### PowerShell admin mode

Open PowerShell in admin mode by hitting the start button, type in 'powershell', right click on the 'Windows PowerShell' item and choose 'Run as administrator'.



All following instructions are done in this PowerShell.

## CDS-DK

Enter these commands in the PowerShell as an Admin:

```
npm set @sap:registry=https://npm.sap.com
npm i -g @sap/cds-dk
```

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\WINDOWS\system32> npm set @sap:registry=https://npm.sap.com
PS C:\WINDOWS\system32> npm i -g @sap/cds-dk
npm WARN fsevents@1.2.9: One of your dependencies needs to upgrade to fsevents v2: 1) Proper nodejs v10+ support 2) No more fetching binaries from AWS, smaller package size
> @sap/cds-dk@1.4.2 preinstall C:\Users\bdpr\AppData\Roaming\npm\node_modules\@sap\cds-dk
> node ./lib/util/preinstall.js
C:\Users\bdpr\AppData\Roaming\npm\cds -> C:\Users\bdpr\AppData\Roaming\npm\node_modules\@sap\cds-dk\bin\cds.js
> sqlite3@4.0.7 install C:\Users\bdpr\AppData\Roaming\npm\node_modules\@sap\cds-dk\node_modules\sqlite3
> node-pre-gyp install --fallback-to-build
node-pre-gyp WARN Success: "C:\Users\bdpr\AppData\Roaming\npm\node_modules\@sap\cds-dk\node_modules\sqlite3\lib\binding\node-v72-win32-x64\node_sqlite3.node" is installed via remote
> nodemon@1.19.2 postinstall C:\Users\bdpr\AppData\Roaming\npm\node_modules\@sap\cds-dk\node_modules\nodemon
> node bin/postinstall || exit 0
> npm WARN! You can now support this project via the open collective:
> https://opencollective.com/nodemon/donate
npm WARN SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\@sap\cds-dk\node_modules\fsevents):
npm WARN SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
+ @sap/cds-dk@1.4.2
added 471 packages from 381 contributors in 52.526s
PS C:\WINDOWS\system32>
```

npm i -g windows-build-tools

```
+ @sap/cds-dk@1.4.2
added 471 packages from 381 contributors in 54.407s
PS C:\WINDOWS\system32> npm i -g windows-build-tools
```

The **result** looks like:

```
> Administrator: Windows PowerShell
----- Visual Studio Build Tools -----
Successfully installed Visual Studio Build Tools.
----- Python -----
Python 2.7.17 is already installed, not installing again.

Now configuring the Visual Studio Build Tools..

All done!

+ windows-build-tools@5.2.2
added 145 packages from 99 contributors in 24.978s
PS C:\WINDOWS\system32> █
```

SQLite and development tools

choco install -y sqlite make curl jq cloudfoundry-cli

```
+ windows-build-tools@5.2.2
added 145 packages from 99 contributors in 24.978s
PS C:\WINDOWS\system32> choco install -y sqlite make curl jq cloudfoundry-cli
```

The **result**:

```
Installed:
- sqlite v3.30.1
- jq v1.6
- curl v7.68.0
- make v4.2.1
- cloudfoundry-cli v6.49.0

Did you know the proceeds of Pro (and some proceeds from other
licensed editions) go into bettering the community infrastructure?
Your support ensures an active community, keeps Chocolatey tip top,
plus it nets you some awesome features!
https://chocolatey.org/compare
PS C:\WINDOWS\system32>
```

CF Multiapps

cf install-plugin multiapps

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> cf install-plugin multiapps
Searching CF-Community for plugin multiapps...
Plugin multiapps 2.2.1 found in: CF-Community
Attention: Plugins are binaries written by potentially untrusted authors.
Install and use plugins at your own risk.
Do you want to install the plugin multiapps? [yN]: y
```

## Final check

`npx check-sap-cloud-readiness -codejam-cap`

```
Plugin multiapps 2.2.1 successfully installed.
PS C:\WINDOWS\system32> npx check-sap-cloud-readiness -codejam-cap
npx: installed 20 in 4.726s
Performing check now...
```

Tool	Installed	Recommended	Status
NPM Proxy Settings	-	-	OK
Cloud Foundry CLI	6.49.0	6.0.0	OK
Core Data Services Dev Kit	1.4.2	1.4.2	OK
CF CLI - MultiApps Plugin	2.2.1	2.0.0	OK
Make	4.2.1	3.4	OK
SQLite	3.30.1	3.9.0	OK
Visual Studio Code	1.41.1	1.30.0	OK
CDS Extension for VS Code	-	1.2.0	Missing!
Windows Build Tools	5.2.2	4.0.0	OK

```
Not all required tools are installed and up to date, please fix these issues.
CDS Extension for VS Code (https://tools.hana.ondemand.com/#cloud)
If you think you installed all tools property, please check your PATH variable to make sure the tools are referenced there.
PS C:\WINDOWS\system32>
```

When the result (like above) is not ok, please reboot your machine and run the check again.

```
PS C:\WINDOWS\system32> npx check-sap-cloud-readiness -codejam-cap
npx: installed 20 in 2.966s
Performing check now...
```

Tool	Installed	Recommended	Status
NPM Proxy Settings	-	-	OK
Cloud Foundry CLI	6.49.0	6.0.0	OK
Core Data Services Dev Kit	1.4.2	1.4.2	OK
CF CLI - MultiApps Plugin	2.2.1	2.0.0	OK
Make	4.2.1	3.4	OK
SQLite	3.30.1	3.9.0	OK
Visual Studio Code	1.41.1	1.30.0	OK
CDS Extension for VS Code	1.4.0	1.2.0	OK
Windows Build Tools	5.2.2	4.0.0	OK

```
You are good to go, great!
```

```
PS C:\WINDOWS\system32>
```