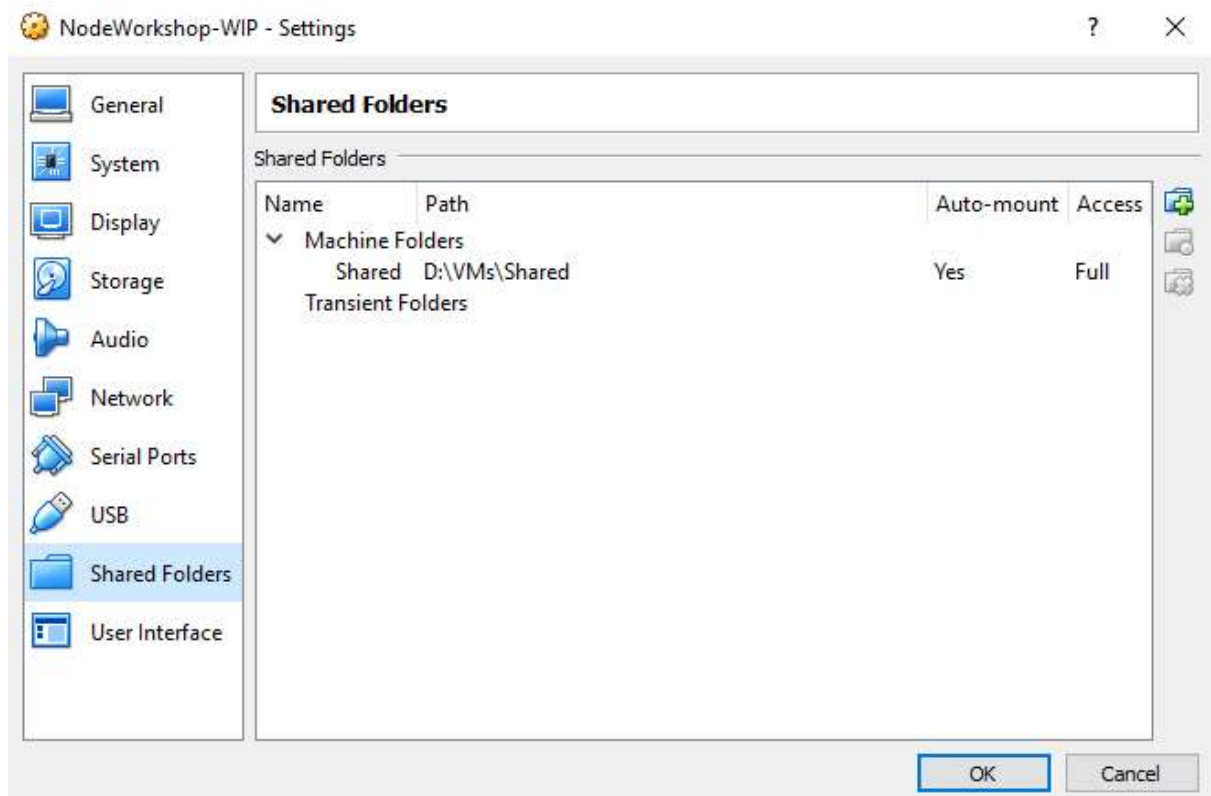


# VirtualBox VM Intro Node.js

The provided Virtual Box Virtual Machine image contains all the tools you need for the workshop; however, you will need to download some packages from the Node.js package repository, so an internet connection is required. The image is configured to use 8 GB of RAM and two processors.

It may also be necessary to share files between your Virtual Machine and your host OS; in order to support this, you will need to create a shared folder before starting your Virtual Machine by:

- selecting the Virtual Box image
- menu: Machine > Settings (or shortcut, Windows: CTRL-S)
- Settings Page: Shared Folder – here my shared folder setup is configured, but you may not have a D:\VMs\Shared directory. Setup your own shared folder for Full Access and Automount:



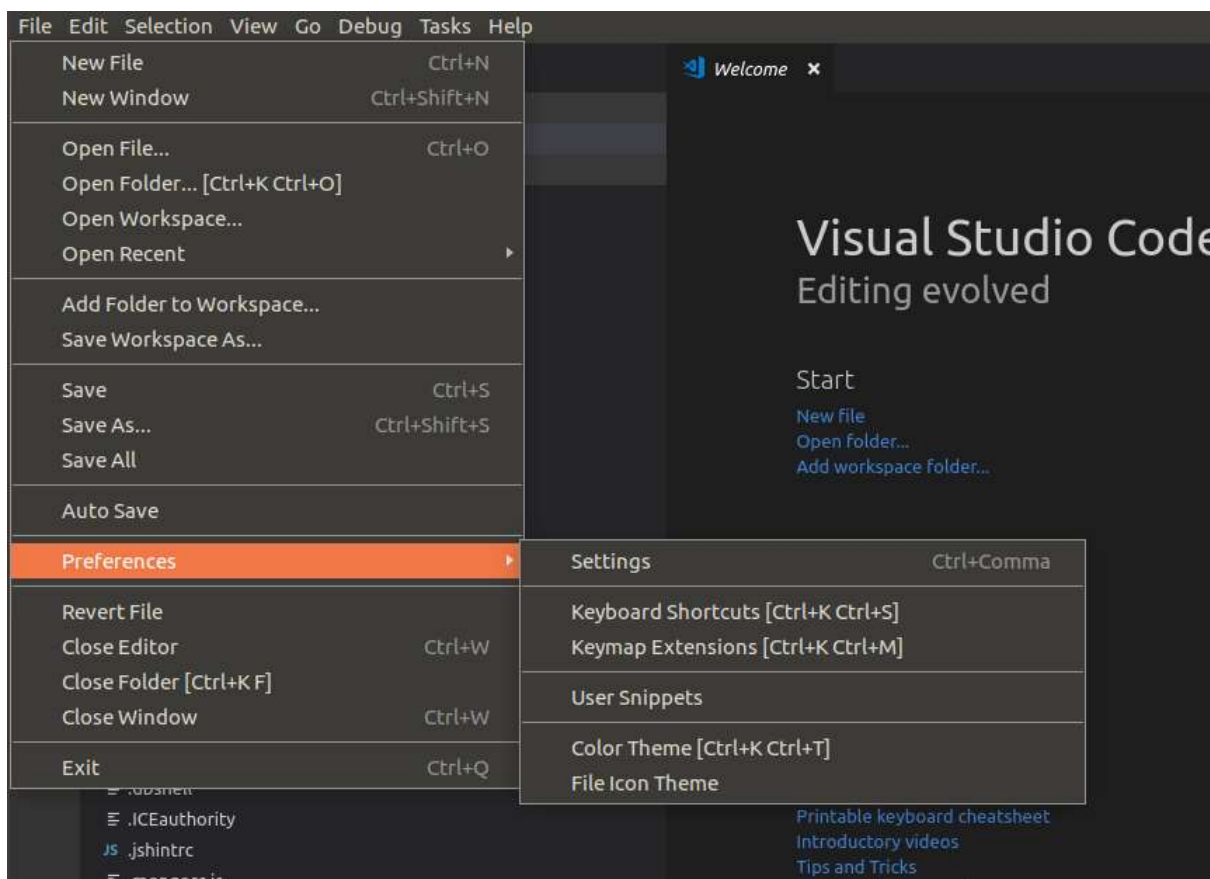
The VirtualBox environment is based on Ubuntu 17.10; a user “node” with password “node” have been created. It contains the following additions:

- Git – Version Control
- curl – command line testing HTTP requests
- Node.js, version 8.9.4 LTS, including npm package manager
- Globally installed Node packages:
  - Nodemon

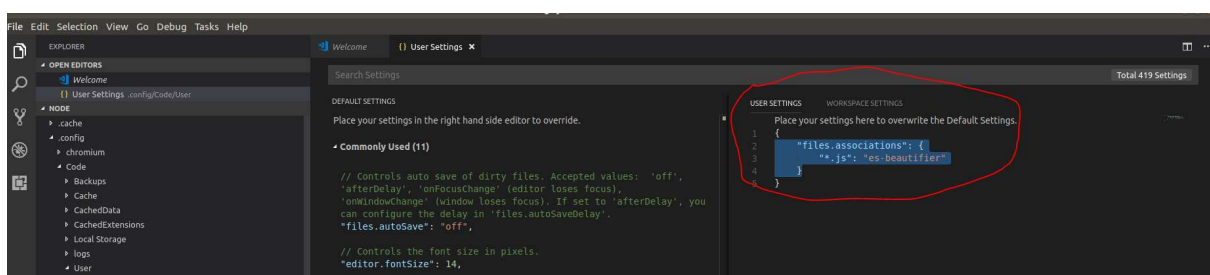
- JSHint
- MongoDB 3.4 (NoSQL database) – autostarted on default port 27017
- Microsoft Visual Studio Code, including JSHint extension (Integrated Development Environment) – start from Launcher or ‘code’
- Postman 6.0.9 – graphical environment for testing REST APIs; start using ‘postman’
- Chromium – Browser (and debugger for Node.js!); start from Launcher or ‘chromium-browser’

## Errata

Tijdens de configuratie van Visual Studio Code is er een aantal preferences gezet, waardoor nu de ‘syntax highlighting’ voor JavaScript niet werkt. Om dit weer aan te zwengelen, moet je in Visual Studio Code deze setting verwijderen:



Open de Settings onder het preferences menu en verwijder de file associatie voor de beautifier:



Sla hierna de wijzigingen op (control-S of File > Save)

De instelling van JSHint staan geconfigureerd in ~/.jshintrc, maar hierin staat de configuratie-optie voor Node.js niet standaard aan; een aantal geldige keywords en variabelen worden hierdoor niet herkend. Pas dit aan door de configuratie-optie op true te zetten!

```
62 "sub" : false, // true: Tolerate using `[ ]` notation when it can still be expressed in dot notation
63 "supernew" : false, // true: Tolerate `new function () { ... };` and `new Object`;
64 "validthis" : false, // true: Tolerate using this in a non-constructor function
65
66 // Environments
67 "browser" : true, // Web Browser (window, document, etc)
68 "browserify" : false, // Browserify (node.js code in the browser)
69 "couch" : false, // CouchDB
70 "devel" : true, // Development/debugging (alert, confirm, etc)
71 "dojo" : false, // Dojo Toolkit
72 "jasmine" : false, // Jasmine
73 "jquery" : false, // jQuery
74 "mocha" : true, // Mocha
75 "mootools" : false, // MooTools
76 "node" : true, // DEZE KUN JE BETER OP true zetten voor Node
77 "nonstandard" : false, // Widely adopted globals (escape, unescape, etc)
78 "phantom" : false, // PhantomJS
79 "prototypejs" : false, // Prototype and Scriptaculous
80 "qunit" : false, // QUnit
81 "rhino" : false, // Rhino
82 "shelljs" : false, // ShellJS
83 "typed" : false, // Globals for typed array constructions
84 "worker" : false, // Web Workers
85 "wsh" : false, // Windows Scripting Host
86 "yui" : false, // Yahoo User Interface
87
88 // Custom Globals
89 "globals" : {} // additional predefined global variables
90 }
'.jshintrc' line 76 of 90 --84%-- col 5
```