

# WSL dev environment configuration

1. Update your Windows 10 machine to the latest "Fall Creators Update" (minimum version 1709, build 16299.15).
2. Open PowerShell as Administrator and run:

```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux
```

3. Install WSL distribution, for instance, [Ubuntu](#)
4. Run Ubuntu, create a new user, keep in mind username:password.
5. Setup Ubuntu WSL environment: install CMake, GCC or/and Clang, configure and run [openssh-server](#).

The following [ubuntu\\_setup\\_env.sh](#) script that can help you with the configuration. If you are using Linux distribution different from Ubuntu, you might need some adjustments to [the script](#).

```
wget https://raw.githubusercontent.com/JetBrains/clion-wsl/master/ubuntu_setup_env.sh &&  
bash ubuntu_setup_env.sh
```

6. To check the ssh connection, run the following command in your WSL distribution:  
`ssh username@localhost -p2222`
7. Run CLion, make sure that configured WSL distribution is running and can be accessed via ssh. Check the [detailed blog post](#) about WSL support in CLion.
8. Configure the WSL toolchain in Build, Execution, Deployment | Toolchains in CLion.
9. Due to the [IntelliJ platform issue](#), there is an issue with WSL file-system which is case-sensitive and Windows FS which is not.

As workaround you can pass properties (Help -> "Edit Custom Properties..."): `idea.case.sensitive.fs=true`, restart an IDE and rebuild the project index (File -> "Invalidate Caches and Restart") after that.