



nRF Connect for Visual Studio Code

Introduction to the nRF52 Development Kit and Visual Studio Code

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Visual Studio Code

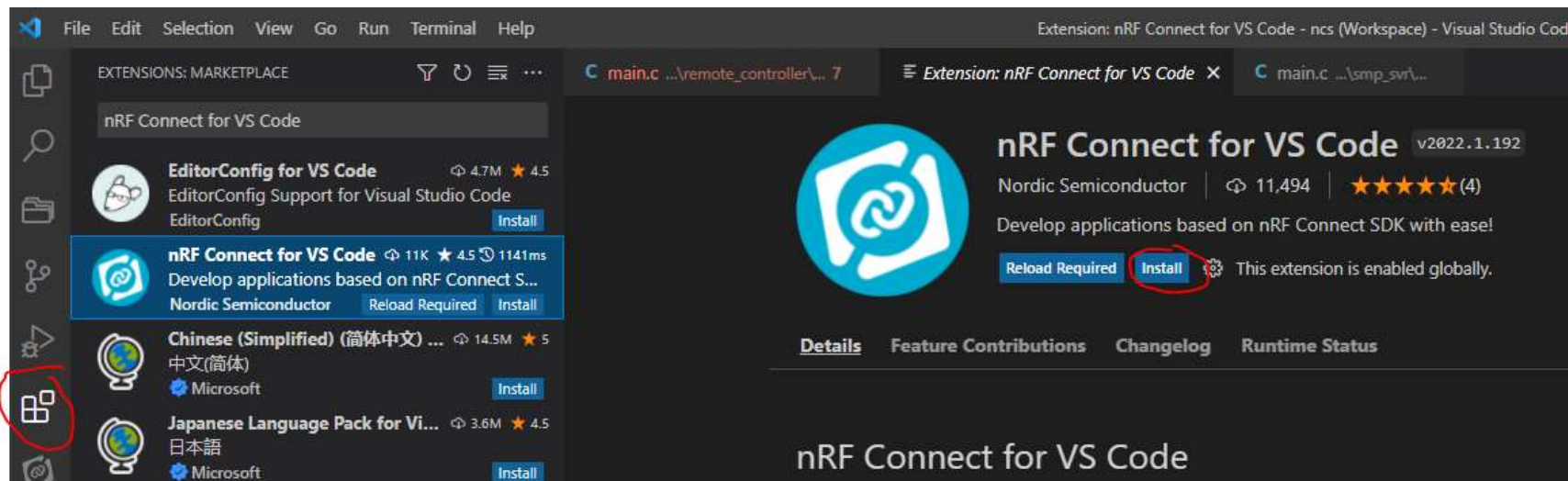
- Professional IDE solution
- Free to use
- Large User Controlled Extension Library

Todo:

- Download Visual Studio Code
 - [Code.visualstudio.com/download](https://code.visualstudio.com/download)
 - (Google “visual studio code download”)
 - Open it and check for updates to see that it is the latest version.
- Download nRF Command Line Tools
 - Google will lead you to: <https://www.nordicsemi.com/Products/Development-tools/nrf-command-line-tools/download>
- Download nRF Connect for Desktop
 - Update and open “Toolchain Manager”
 - Install nRF Connect SDK v1.9.1
 - Open VS Code

Todo:

➤ In VS Code, install the extension:



Show and tell

The screenshot displays the Visual Studio Code interface for a Zephyr project. The left sidebar shows the project structure, with the 'main.c' file selected under the 'src' directory. The main editor window shows the code for 'main.c', which includes configuration macros for OS, image, and SMP management, and a main function that logs 'Hello World!'. The bottom panel shows the terminal output of the build process, including generating various Zephyr artifacts.

```
main.c - ncs (Workspace) - Visual Studio Code

ncs > my_projects > 1.9.0 > mcutest > remote_controller > src > C main.c > main(void)
154
155 #ifdef CONFIG_MCUMGR_CMD_OS_MGMT
156 os_mgmt_register_group();
157 #endif
158
159 #ifdef CONFIG_MCUMGR_CMD_IMG_MGMT
160 img_mgmt_register_group();
161 #endif
162
163 #ifdef CONFIG_MCUMGR_SMP_BT
164 //start_smp_bluetooth();
165 smp_bt_register();
166 #endif
167 }
168 #endif
169
170 /* Main */
171 void main(void)
172 {
173     int err;
174     int blink_status = 0;
175     LOG_INF("Hello World! %s\n", CONFIG_BOARD);
176
177     #ifdef CONFIG_BOOTLOADER_MCUBOOT
178     bootloader_init();
179     #endif
180
181     configure_dk_buttons_leds();
182
183     err = bluetooth_init(&bluetooth_callbacks, &remote_callbacks);
184     if (err) {
185         LOG_INF("Couldn't initialize Bluetooth. err: %d", err);
186     }
187
188     LOG_INF("Running...");
189     for (;;) {
190
191     }
192 }
```

PROBLEMS 53 OUTPUT DEBUG CONSOLE TERMINAL NRF TERMINAL

```
[14/22] Generating zephyr/mcuboot_primary_app.hex
[15/22] Generating zephyr/mcuboot_primary.hex
[16/22] Generating ../zephyr/app_update.bin
[17/22] Generating ../zephyr/app_signed.hex
[18/22] Generating ../zephyr/app_test_update.hex
[19/22] Generating ../zephyr/app_moved_test_update.hex
[20/22] Generating ../zephyr/dfu_application.zip
[21/22] Generating zephyr/merged.hex
[22/22] Generating zephyr/merged_domains.hex
```

powerShell
nRF Connect: Flash remote_co... ✓

Show and tell



Segger Embedded Studio

Introduction to the nRF52 Development Kit and Segger Embedded Studio

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