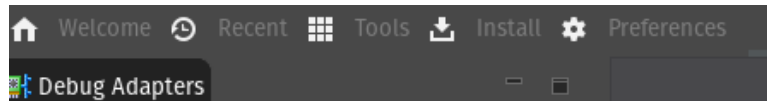
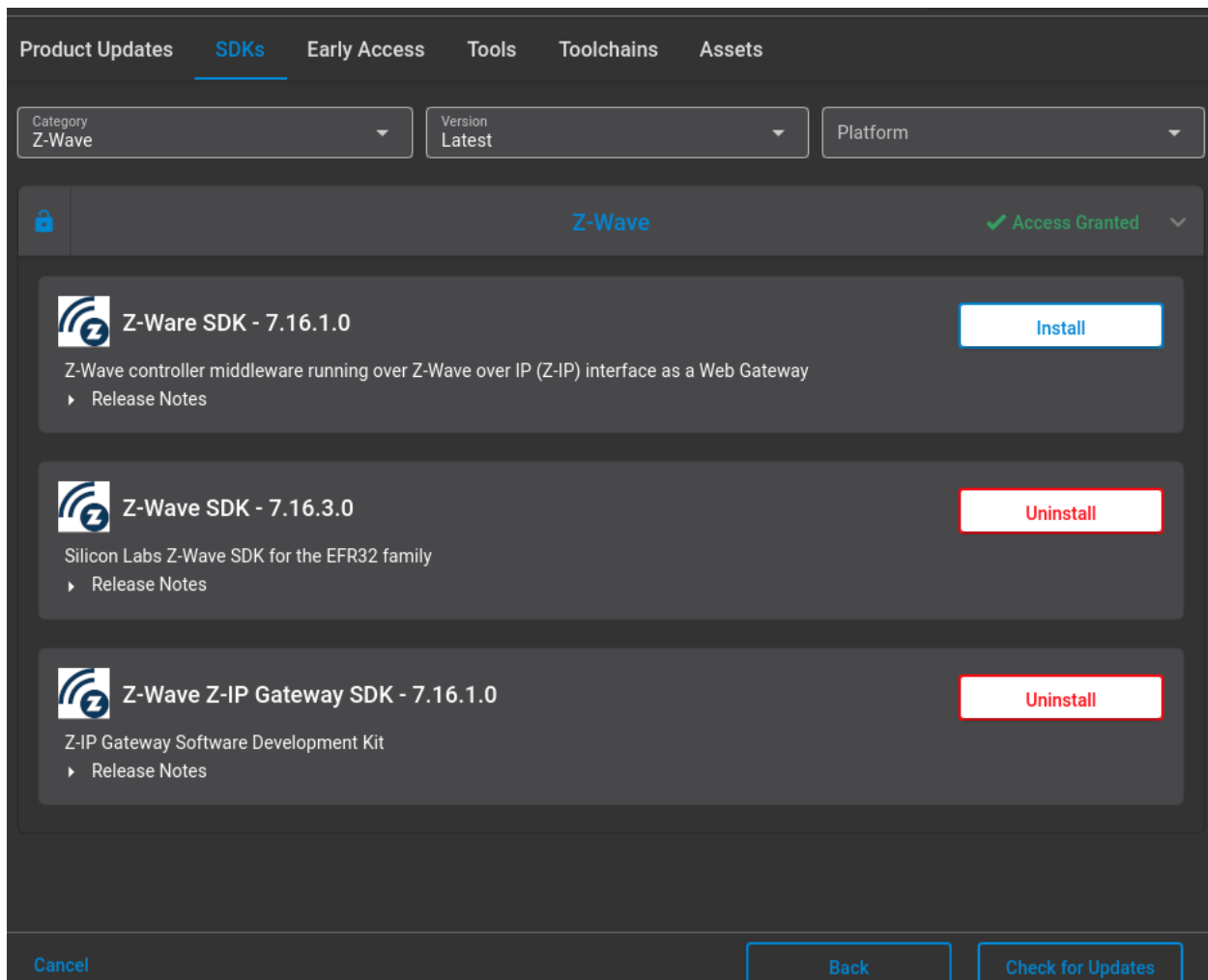


# Compile zipgateway

1. Clone [https://github.com/nerves-project/nerves\\_system\\_br](https://github.com/nerves-project/nerves_system_br)
2. Clone [https://github.com/nerves-project/nerves\\_system\\_rpi3](https://github.com/nerves-project/nerves_system_rpi3)
3. In `nerves_system_br` run `create_build.sh <path_to>/nerves_system_rpi3/nerves_defconfig o/rpi3`
4. `cd` into `o/rpi3` and run `make`
5. After the build completes 30-45 minutes, run `source ./nerves-env.sh` in the `rpi3 out` directory (`<path_to>/nerves_system_br/o/rpi3`)
6. Download [Simplicity Studio 5](#) and ensure you have an account with silabs.com
7. Once Simplicity Studio 5 is opened and you are logged into silabs from the IDE, click on install in the toolbar:



8. The installation manager will appear and to download the latest Z/IP Gateway source click on the SDKs tab and select `Z-Wave` as the category



9. Click the "Install" or "Update" button, depending on if you have installed the packages before or not.
10. Navigate to the compressed Z/IPsource code
  - a. Linux: `<path to simplicity studio 5>/developer/sdks/zwave/zip_gateway/7.16.1/Source/zipgateway-7.16.01-Source.tar.bz2`
11. Decompress/extract the files from the source folder and navigate into the folder named `zipgateway-7.16.01-Source`
12. Runt this script:

```
#!/bin/sh
set -e

if [ -z "$NERVES_SDK_SYSROOT" ]; then
  echo "You need to build this with Nerves environment variables set."
  echo
  echo "The easiest way is to checkout nerves_system_br and nerves_system_rpi3."
```

```

    echo "Then run <nerves_system_br>/create_build.s <path_to>nerves_system_rpi3 o/rpi3"
    echo "In the output directory, run 'make'. When the build is done, source"
    echo "nerves-env.sh and come back here."
    exit 1
fi

BASE_DIR=$(pwd)

cd "$BASE_DIR/usr/local"

# Run cmake twice. I have no idea, but not all of the variables "take" the first time.
for i in 1 2; do
PKG_CONFIG_PATH="$NERVES_SDK_SYSROOT/usr/lib/pkgconfig" PKG_CONFIG_SYSROOT_DIR="$NERVES_SDK_SYSROOT" cmake \
-DMAKE_TOOLCHAIN_FILE="$NERVES_TOOLCHAIN/share/buildroot/toolchainfile.cmake" \
-DSKIP_TESTING=ON \
-DCMAKE_FIND_ROOT_PATH_MODE_PROGRAM=NEVER \
-DCMAKE_FIND_ROOT_PATH_MODE_LIBRARY=ONLY \
-DCMAKE_FIND_ROOT_PATH_MODE_INCLUDE=ONLY \
-DCMAKE_SYSTEM_NAME=Linux \
-DCMAKE_SYSTEM_PROCESSOR=armhf \
-DDISABLE_MOCK=ON \
-DBUILD_SHARED_LIBS=OFF \
-DCONFIGURE_HOST=arm-linux \
-DCMAKE_SYSTEM_VERSION=1 \
-DCMAKE_FIND_ROOT_PATH=$NERVES_SDK_SYSROOT \
-DCMAKE_C_COMPILER=$CC \
-DCMAKE_CXX_COMPILER=$CXX \
-DCMAKE_BUILD_TYPE=Release \
-DCMAKE_INSTALL_PREFIX=/usr \
-DDEBUG_ALLOW_NONSECURE=OFF \
-DNO_ZW_NVM=ON \
.
done

# Might want to adjust job number depending on number of cores
make -j9

```