

やり直した手順を記載します。

## 0. Wsl2 のインストール

一度インストールした後 `wsl --unregister Debian` で消してからの動き

```
C:\Users\¥furuyatsutomu>wsl --install -d debian
```

Debian GNU/Linux は既にインストールされています。

Debian GNU/Linux を起動しています...

Installing, this may take a few minutes...

Please create a default UNIX user account. The username does not need to match your Windows username.

For more information visit: <https://aka.ms/wslusers>

Enter new UNIX username: **admin**

New password:**admin**

Retype new password:**admin**

passwd: password updated successfully

Installation successful!

## 1. Debian パッケージを最新版に更新します。

```
admin@Eagle2023:~$ sudo apt-get update
```

```
[sudo] password for admin:admin
```

```
Hit:1 http://deb.debian.org/debian bookworm InRelease
```

```
...
```

```
Fetches 6,905 kB in 2s (4,541 kB/s)
```

```
Reading package lists... Done
```

```
admin@Eagle2023:~$ sudo apt-get upgrade
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Calculating upgrade... Done
```

```
...
```

```
Setting up fdisk (2.38.1-5+deb12u1) ...
```

```
Processing triggers for libc-bin (2.36-9+deb12u7) ...
```

## 2. 標準開発ツールのインストールします。

```
admin@Eagle2023:~$ sudo apt-get install build-essential
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
...
```

```
Setting up libalgorithm-diff-xs-perl:amd64 (0.04-8+b1) ...
```

```
Setting up libalgorithm-merge-perl (0.08-5) ...
```

```
Processing triggers for libc-bin (2.36-9+deb12u7)
```

### 3. Armadillo 用ソースリストを作成します。

```
admin@Eagle2023:~$ sudo vi /etc/apt/sources.list.d/atmark-techno.list
vi で次の 2 行を追加
admin@Eagle2023:~$ cat /etc/apt/sources.list.d/atmark-techno.list
deb https://download.atmark-techno.com/debian/ bookworm main contrib non-free-firmware
deb-src https://download.atmark-techno.com/debian/ bookworm main contrib
```

### 4. アットマークテクノが公開している GPG 鍵を取得します。

Apt-key が Debian から消えているので、別の手段でカギをインストール

<https://download.atmark-techno.com/debian/atmark-debian.gpg>

からダウンロードした gpg ファイルを windows の C:¥にあらかじめダウンロード

```
admin@Eagle2023:~$ sudo cp /mnt/c/atmark-debian.gpg /etc/apt/trusted.gpg.d
admin@Eagle2023:~$ ls /etc/apt/trusted.gpg.d/
atmark-debian.gpg                debian-archive-bullseye-security-automatic.asc
debian-archive-bookworm-automatic.asc  debian-archive-bullseye-stable.asc
debian-archive-bookworm-security-automatic.asc  debian-archive-buster-automatic.asc
debian-archive-bookworm-stable.asc          debian-archive-buster-security-automatic.asc
debian-archive-bullseye-automatic.asc       debian-archive-buster-stable.asc
```

### 5. Armadillo 用ソースリストが正常に作成できたか確認します。

```
admin@Eagle2023:~$ sudo apt-get update
Hit:1 http://deb.debian.org/debian bookworm InRelease
Hit:2 http://security.debian.org/debian-security bookworm-security InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Ign:4 https://download.atmark-techno.com/debian bookworm InRelease
Hit:5 http://ftp.debian.org/debian bookworm-backports InRelease
Ign:4 https://download.atmark-techno.com/debian bookworm InRelease
Ign:4 https://download.atmark-techno.com/debian bookworm InRelease
Err:4 https://download.atmark-techno.com/debian bookworm InRelease
  Certificate verification failed: The certificate is NOT trusted. The certificate issuer is unknown.  Could not
handshake: Error in the certificate verification. [IP: 54.64.102.35 443]
Reading package lists... Done
W: https://download.atmark-techno.com/debian/dists/bookworm/InRelease: No system certificates available.
Try installing ca-certificates.
W: https://download.atmark-techno.com/debian/dists/bookworm/InRelease: No system certificates available.
Try installing ca-certificates.
```

```
W: https://download.atmark-techno.com/debian/dists/bookworm/InRelease: No system certificates available.
Try installing ca-certificates.
W: https://download.atmark-techno.com/debian/dists/bookworm/InRelease: No system certificates available.
Try installing ca-certificates.
W: Failed to fetch https://download.atmark-techno.com/debian/dists/bookworm/InRelease Certificate
verification failed: The certificate is NOT trusted. The certificate issuer is unknown. Could not handshake:
Error in the certificate verification. [IP: 54.64.102.35 443]
W: Some index files failed to download. They have been ignored, or old ones used instead.
admin@Eagle2023:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

## 6. Armadillo 用のクロス開発環境一式をインストールします。

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package x1-essential
```