

Windows编译

1. 安装Visual Studio Community Edition

我使用的是2017

<https://visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&rel=15>

选择使用C++的桌面开发即可



2. 安装Go

<https://golang.google.cn/doc/install>

已上传oss: <https://ilogtail-community-edition.oss-cn-shanghai.aliyuncs.com/toolchain/go1.18.5.windows-amd64.msi>

3. 安装MinGW

cgo依赖gcc, <https://github.com/niXman/mingw-builds-binaries/releases> 下载i686 dwarf的版本

已上传oss: https://ilogtail-community-edition.oss-cn-shanghai.aliyuncs.com/toolchain/i686-12.2.0-release-win32-dwarf-rt_v10-rev0.7z

假设解压到C:\workspace\mingw32

4. 克隆代码库

我都是在Git CMD执行

git clone git@github.com:alibaba/ilogtail.git, 假设路径为C:\workspace\ilogtail

3. 下载依赖库

curl <https://ilogtail-community-edition.oss-cn-shanghai.aliyuncs.com/prebuilt-dependencies/ilogtail-deps.windows-386.zip> -sSfL -o ilogtail-deps.windows-386.zip

假设解压到C:\workspace, 解压后路径为C:\workspace\ilogtail-deps.windows-386

4. 安装boost依赖

<https://sourceforge.net/projects/boost/files/boost-binaries/1.68.0/>

下载boost_1_68_0-msvc-14.1-32.exe, 已上传oss

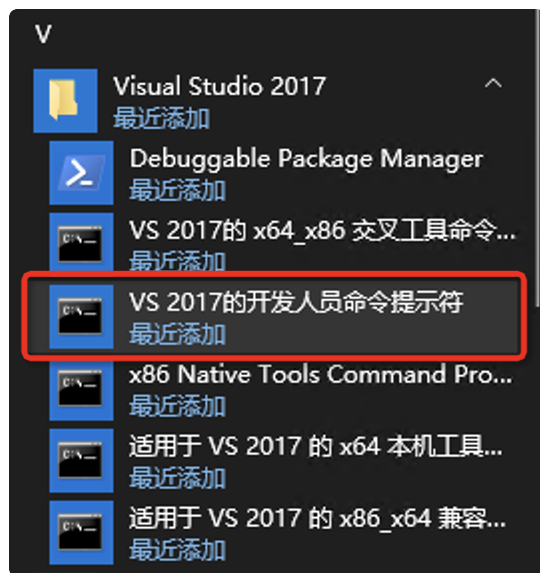
https://ilogtail-community-edition.oss-cn-shanghai.aliyuncs.com/prebuilt-dependencies/boost_1_68_0-msvc-14.1-32.exe

5. 准备编译脚本, 修改数据源和编译器路径

```
Basic | 复制代码
1 set ILOGTAIL_DEPS_PATH=C:/workspace/ilogtail-deps.windows-386
2 set ILOGTAIL_PLUGIN_SRC_PATH=C:\workspace\ilogtail
3 set ILOGTAIL_CORE_SRC_PATH=%ILOGTAIL_PLUGIN_SRC_PATH%\core
4 set BOOST_ROOT=C:\workspace\boost_1_68_0
5 set CMAKE_BIN=cmake
6 set DEVENV_BIN=devenv.com
7 set GO_BIN=go
8 set MINGW_PATH=C:\workspace\mingw32\bin
```

假设编译脚本为C:\workspace\build.bat

5. 从“开始”菜单进入VS的开发人员命令提示符



6. 执行编译脚本

```
Go | 复制代码
1 cd C:\workspace
2 build.bat 1.1.1.0
```

耐心等待编译完成, 编译结果在C:\workspace\ilogtail\output

```
C:\workspace\ilogtail\output 的目录
2022/09/04 10:45 <DIR> .
2022/09/04 10:45 <DIR> ..
2022/09/04 02:19      5,325,312 ilogtail.exe
2022/09/04 02:14      98,304 PluginAdapter.dll
2022/09/04 10:45    106,793,321 PluginBase.dll
2022/09/04 10:45      3,243 PluginBase.h
      4 个文件      112,220,180 字节
      2 个目录    11,088,044,032 可用字节
请按任意键继续. . .
```

编译过程如果出错，可以查看C:\workspace\ilogtail\core\build\stdout.txt

当前编译脚本是bat，功能较弱，如果能改成PowerShell会强大很多。