

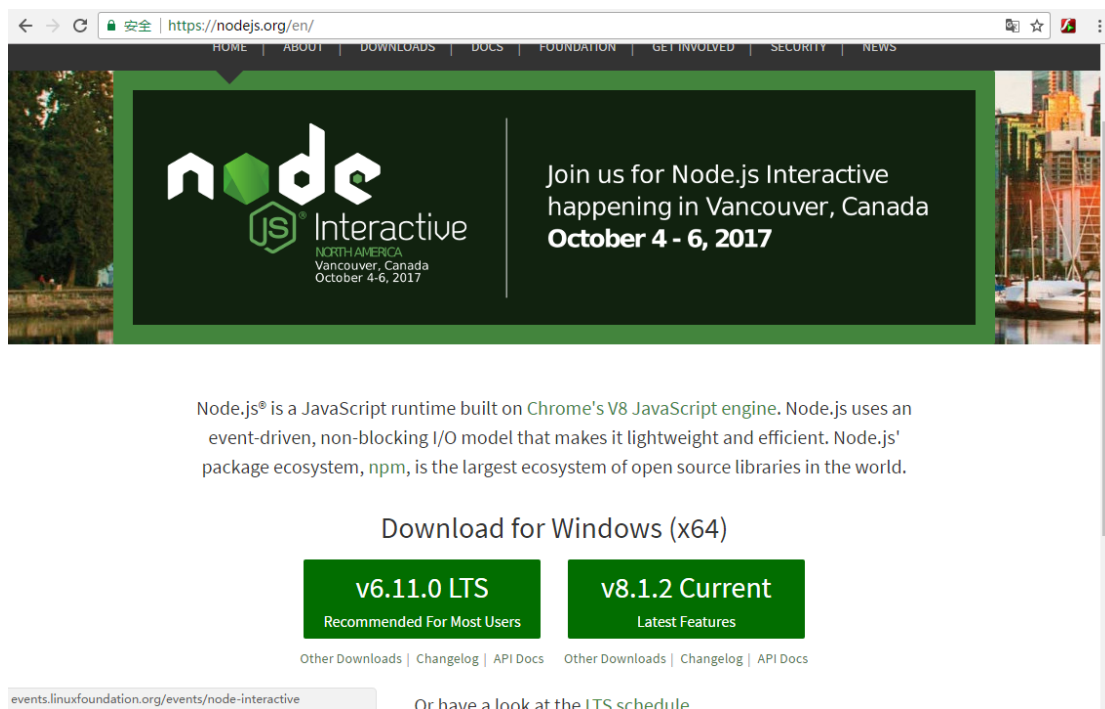
# 安装部署说明

开发环境：windows10

工具：visual studio 2015、Nodejs、Mongodb

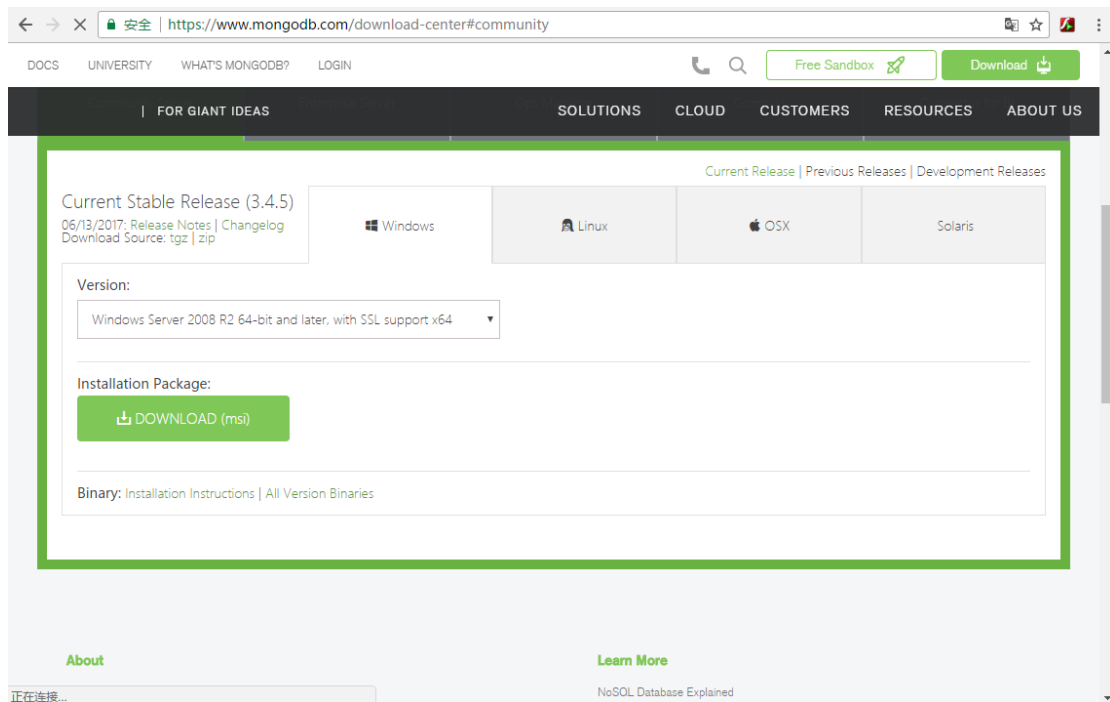
在运行程序之前，先准备好服务器的安装和启动

首先下载 Nodejs ( 地址 <https://nodejs.org/en/> ) 下载最新版本  
的 nodejs 并安装



再下载 mongodb ( 地址

<https://www.mongodb.com/download-center#community> )



都安装完成后开始安装依赖：

用 cmd 进入到代码文件的 server 目录下，并运行指令 npm install，如果是第一次安装的话会提示如下图所示的信息：

```
C:\Windows\system32\cmd.exe

D:\>cd D:\软件设计project\源代码\judu\server

D:\软件设计project\源代码\judu\server>npm install

> iconv@2.2.2 install D:\软件设计project\源代码\judu\server\node_modules\iconv
> node-gyp rebuild

D:\软件设计project\源代码\judu\server\node_modules\iconv>if not defined npm_config_node_gyp (node "D:\nodejs\node_modules\npm\bin\node-gyp-bin\..\node_modules\node-gyp\bin\node-gyp.js" rebuild) else (node "" rebuild)
在此解决方案中一次生成一个项目。若要启用并行生成，请添加 "/m" 开关。
  binding.cc
  win_delay_load_hook.cc
D:\软件设计project\源代码\judu\server\node_modules\iconv\support\iconv.h : warning C4319: 该文件包含不能在当前代码页(936)中表示的字符。请将该文件保存为 Unicode 格式以防止数据丢失 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
D:\软件设计project\源代码\judu\server\node_modules\iconv\support\iconv.h : warning C4319: 该文件包含不能在当前代码页(936)中表示的字符。请将该文件保存为 Unicode 格式以防止数据丢失 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(308): warning C4311: "类型转换": 从 "char (*)[5]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(288): warning C4311: "类型转换": 从 "char (*)[3]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(209): warning C4311: "类型转换": 从 "char (*)[7]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(354): warning C4311: "类型转换": 从 "char (*)[7]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(207): warning C4311: "类型转换": 从 "char (*)[4]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(244): warning C4311: "类型转换": 从 "char (*)[7]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(174): warning C4311: "类型转换": 从 "char (*)[7]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(205): warning C4311: "类型转换": 从 "char (*)[6]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(189): warning C4311: "类型转换": 从 "char (*)[7]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(203): warning C4311: "类型转换": 从 "char (*)[4]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(180): warning C4311: "类型转换": 从 "char (*)[7]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(323): warning C4311: "类型转换": 从 "char (*)[6]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(186): warning C4311: "类型转换": 从 "char (*)[7]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
lib/aliases.gperf(201): warning C4311: "类型转换": 从 "char (*)[6]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
```

直到出现以下信息即为安装成功：

```
d:\软件设计project\源代码\judu\server\node_modules\iconv\deps\libiconv\lib\canonical_local.h(1): warning C4311: "类型转换": 从 "char (*)[5]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
d:\软件设计project\源代码\judu\server\node_modules\iconv\deps\libiconv\lib\canonical_local.h(2): warning C4311: "类型转换": 从 "char (*)[8]" 到 "long" 的指针截断 [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
正在创建库 D:\软件设计project\源代码\judu\server\node_modules\iconv\build\Release\iconv.lib 和对象 D:\软件设计project\源代码\judu\server\node_modules\iconv\build\Release\iconv.exp
正在生成代码
已完成代码的生成
iconv.vcxproj -> D:\软件设计project\源代码\judu\server\node_modules\iconv\build\Release\iconv.node
iconv.vcxproj -> D:\软件设计project\源代码\judu\server\node_modules\iconv\build\Release\iconv.pdb (Full PDB)
npm notice created a lockfile as package-lock.json. You should commit this file.
added 2 packages in 18.41s

D:\软件设计project\源代码\judu\server>
```

如已经配置过依赖则会显示：

```
D:\软件设计project\源代码\judu\server>npm install
up to date in 0.808s

D:\软件设计project\源代码\judu\server>_
```

如果在安装依赖时出现以下错误：

```
D:\软件设计project\源代码\judu\server>npm install
> iconv@2.2.3 install D:\软件设计project\源代码\judu\server\node_modules\iconv
> node-gyp rebuild

D:\软件设计project\源代码\judu\server\node_modules\iconv>if not defined npm_config_node_gyp (node "D:\nodejs\node_modules\npm\bin\node-gyp-bin\..\node_modules\node-gyp\bin\node-gyp.js" rebuild) else (node "" rebuild)
在此解决方案中一次生成一个项目。若要启用并行生成，请添加 "/m" 开关。
CL : fatal error C1510: Cannot load language resource clui.dll. [D:\软件设计project\源代码\judu\server\node_modules\iconv\build\iconv.vcxproj]
gyp ERR! build error
gyp ERR! stack Error: `C:\Program Files (x86)\MSBuild\14.0\bin\msbuild.exe` failed with exit code: 1
gyp ERR! stack at ChildProcess.onExit (D:\nodejs\node_modules\npm\node_modules\node-gyp\lib\build.js:258:23)
gyp ERR! stack at emitTwo (events.js:125:13)
gyp ERR! stack at ChildProcess.emit (events.js:213:7)
gyp ERR! stack at Process.ChildProcess._handle.onexit (internal/child_process.js:197:12)
gyp ERR! System Windows_NT 10.0.14393
gyp ERR! command "D:\nodejs\node.exe" "D:\nodejs\node_modules\npm\node_modules\node-gyp\bin\node-gyp.js" "rebuild"
gyp ERR! cwd D:\软件设计project\源代码\judu\server\node_modules\iconv
gyp ERR! node -v v8.1.2
gyp ERR! node-gyp -v v3.6.2
gyp ERR! not ok
npm ERR! code ELIFECYCLE
npm ERR! errno 1
npm ERR! iconv@2.2.3 install: `node-gyp rebuild`
npm ERR! Exit status 1
npm ERR!
npm ERR! Failed at the iconv@2.2.3 install script.
npm ERR! This is probably not a problem with npm. There is likely additional logging output above.

npm ERR! A complete log of this run can be found in:
npm ERR! C:\Users\Map\AppData\Roaming\npm-cache\_logs\2017-06-24T08_22_12_639Z-debug.log

D:\软件设计project\源代码\judu\server>
```

则说明 vs 的安装可能有问题，可以尝试修复 vs 后再进行安装。

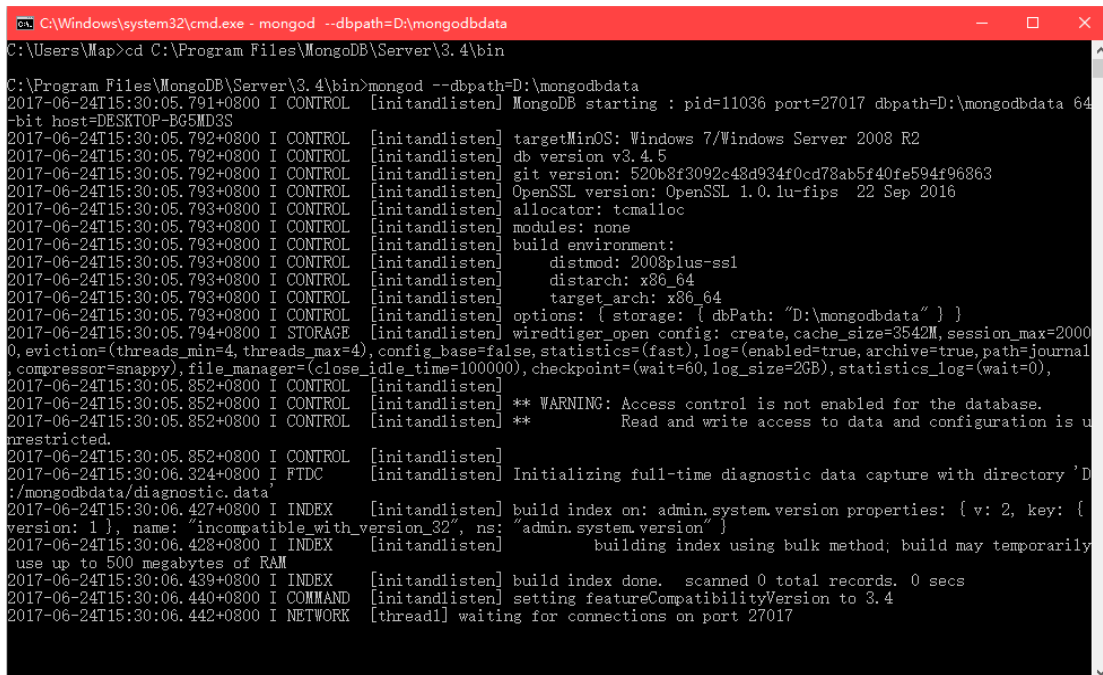
依赖安装完成后启动服务器：

打开 cmd 并进入到 mongodb 的安装目录下的 bin 目录下，输入如下命令：

```
C:\Users\Map>cd C:\Program Files\MongoDB\Server\3.4\bin
C:\Program Files\MongoDB\Server\3.4\bin>mongod --dbpath=D:\mongodbdata
```

其中--dbpath 后的路径为服务器数据存放的位置，可以自己设定。

出现如下图所示的提示信息后表示服务器已经成功启动了。



```
C:\Windows\system32\cmd.exe - mongod --dbpath=D:\mongodbdata
C:\Users\Map>cd C:\Program Files\MongoDB\Server\3.4\bin
C:\Program Files\MongoDB\Server\3.4\bin>mongod --dbpath=D:\mongodbdata
2017-06-24T15:30:05.791+0800 I CONTROL [initandlisten] MongoDB starting : pid=11036 port=27017 dbpath=D:\mongodbdata 64-bit host=DESKTOP-BG5MD3S
2017-06-24T15:30:05.792+0800 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2017-06-24T15:30:05.792+0800 I CONTROL [initandlisten] db version v3.4.5
2017-06-24T15:30:05.792+0800 I CONTROL [initandlisten] git version: 520b8f3092c48d934f0cd78ab5f40fe594f96863
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.0.1u-fips 22 Sep 2016
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] allocator: tcmalloc
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] modules: none
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] build environment:
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] distmod: 2008plus-ssl
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] distarch: x86_64
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] target arch: x86_64
2017-06-24T15:30:05.793+0800 I CONTROL [initandlisten] options: { storage: { dbPath: "D:\mongodbdata" } }
2017-06-24T15:30:05.794+0800 I STORAGE [initandlisten] wiredtiger_open config: create,cache_size=3542M,session_max=2000, eviction=(threads_min=4, threads_max=4), config_base=false, statistics=(fast), log=(enabled=true, archive=true, path=journal, compressor=snappy), file_manager=(close_idle_time=100000), checkpoint=(wait=60, log_size=2GB), statistics_log=(wait=0),
2017-06-24T15:30:05.852+0800 I CONTROL [initandlisten]
2017-06-24T15:30:05.852+0800 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2017-06-24T15:30:05.852+0800 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2017-06-24T15:30:05.852+0800 I CONTROL [initandlisten]
2017-06-24T15:30:06.324+0800 I FTDC [initandlisten] Initializing full-time diagnostic data capture with directory 'D:\mongodbdata\diagnostic.data'
2017-06-24T15:30:06.427+0800 I INDEX [initandlisten] build index on: admin.system.version properties: { v: 2, key: { version: 1 }, name: "incompatible_with_version_32", ns: "admin.system.version" }
2017-06-24T15:30:06.428+0800 I INDEX [initandlisten] building index using bulk method; build may temporarily use up to 500 megabytes of RAM
2017-06-24T15:30:06.439+0800 I INDEX [initandlisten] build index done. scanned 0 total records. 0 secs
2017-06-24T15:30:06.440+0800 I COMMAND [initandlisten] setting featureCompatibilityVersion to 3.4
2017-06-24T15:30:06.442+0800 I NETWORK [thread1] waiting for connections on port 27017
```

接下来我们需要手动生成准备抓取的数据，因为我们的服务器时设定在每天的零点进行数据抓取并生成的，考虑到测试的时间可能不是零点，所以需要临时进行数据的添加，操作如下：

```

D:\>cd D:\软件设计project\源代码\judu\server
D:\软件设计project\源代码\judu\server>set DEBUG=judu:* & node test.js
judu:feeds database feeds work as normal +0ms
judu:feed_generator feed generator works as normal +2ms
judu:feed_generator start generate zhihu +2ms
judu:feed_generator start generate scipark +4ms
judu:feed_generator start generate engadget +1ms
judu:feed_generator start generate msa +1ms
judu:feed_generator start generate appinn +0ms
judu:feed_generator start generate kr36 +1ms
judu:feed_generator start generate ifanr +0ms
judu:feed_generator start generate geekfan +0ms
judu:feed_generator start generate dajia +1ms
judu:feed_generator start generate yidu +0ms
judu:feed_generator start generate ecocn +0ms
judu:feed_generator start generate ruanyifeng +1ms
judu:feed_generator start generate adaymag +0ms
judu:feed_generator start generate ifeng +0ms
judu:feed_generator Add feed: msa 2017_6_24 +93ms
judu:feed_generator Error: getaddrinfo ENOTFOUND yidu.im yidu.im:80
    at errnoException (dns.js:50:10)
    at GetAddrInfoReqWrap.onlookup [as oncomplete] (dns.js:91:26) +5ms
judu:feed_generator Error: getaddrinfo ENOTFOUND www.geekfan.net www.geekfan.net:80
    at errnoException (dns.js:50:10)
    at GetAddrInfoReqWrap.onlookup [as oncomplete] (dns.js:91:26) +12ms
judu:feed_generator Add feed: ifeng 2017_6_24 +59ms
judu:feed_generator Add feed: appinn 2017_6_24 +164ms
judu:feed_generator Add feed: ifanr 2017_6_24 +30ms
judu:feed_generator Add feed: dajia 2017_6_24 +49ms
judu:feed_generator Add feed: ecocn 2017_6_24 +226ms
judu:feed_generator Add feed: kr36 2017_6_24 +128ms
judu:feed_generator Add feed: adaymag 2017_6_24 +910ms
judu:feed_generator Add feed: engadget 2017_6_24 +118ms
judu:feed_generator Add feed: zhihu 2017_6_24 +1s
judu:feed_generator Add feed: ruanyifeng 2017_6_24 +420ms
judu:feed_generator Error: ETIMEDOUT
    at Timeout._onTimeout (D:\软件设计project\源代码\judu\server\node_modules\request\request.js:852:19)
    at ontimeout (timers.js:438:11)
    at tryOnTimeout (timers.js:323:5)
    at Timer.listOnTimeout (timers.js:283:5) +6s

```

图中提示信息表示有的数据获取不到了,经过多次测试还是这样,推测可能是网络原因或者网站原因。

最后启动服务器,操作如下图所示:

```
D:\>cd D:\软件设计project\源代码\judu\server
D:\软件设计project\源代码\judu\server>set DEBUG=judu:* & npm start
> judu@0.0.0 start D:\软件设计project\源代码\judu\server
> node ./bin/www

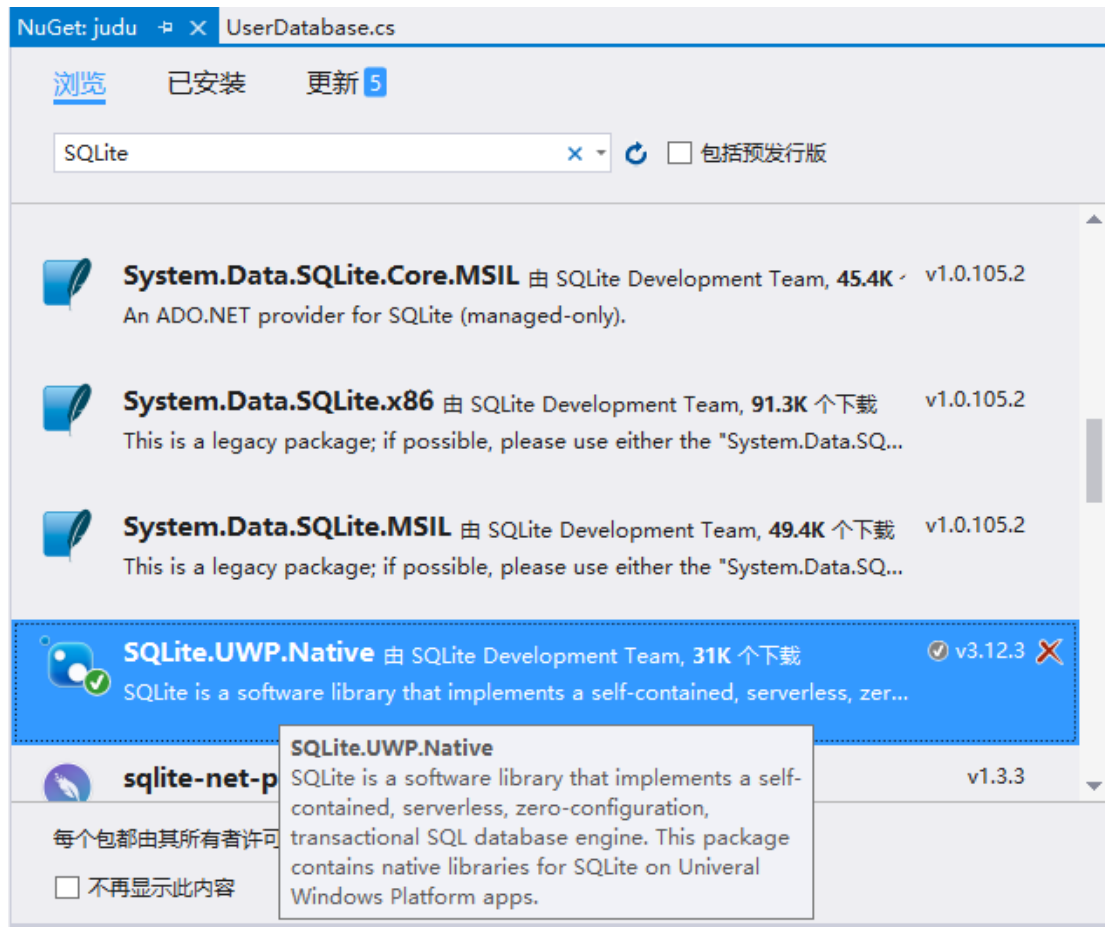
judu:app app setup +0ms
judu:feeds database feeds work as normal +4ms
judu:db database user work as normal +5ms
judu:db database user work as normal +2ms
judu:user router user work as normal +0ms
judu:feeds database feeds work as normal +187ms
judu:feed_generator feed generator works as normal +1ms
judu:server Listening on port 3000 +10ms
```

看到这些完整的信息则表明服务器已经正确启动了。此时再打开客户端做其它的各项测试即可。

接下来打开客户端时还可能会碰到一下错误：



我的处理方法是先在项目的引用内将这个 SQLite.UWP 的引用移除，然后右键引用，选择管理 NuGet 程序包，然后找到图中这个引用包并安装：



安装完之后就能够正常运行客户端了。