

Moodle in Kubeblocks (windows)

Moodle是一个免费的在线学习管理系统,它使教育工作者能够创建自己的私人网站,填充充满动态的课程内容,从而实现随时随地的学习扩展。

介绍

本文档将引导你快速入门windows下依托于KubeBlocks的数据库mysql来快速安装moodle并使用他

必要准备

- [Docker](#): v20.10.5 (runc \geq v1.0.0-rc93) 或更高版本;
- [kubectl](#): 用于与 Kubernetes 集群进行交互;
- [kbccli](#): 用于 Playground 和 KubeBlocks 之间的交互。

数据库准备

确保 ApeCloud MySQL 引擎已启用

```
kbccli addon list
```

NAME	TYPE	STATUS	EXTRAS	AUTO-INSTALL
INSTALLABLE-SELECTOR				
...				
apecloud-mysql	Helm	Enabled		true
...				

执行以下命令以获取目标数据库的网络信息，特别注意这里的密码之后要用

```
kbccli cluster connect --show-example --show-password ${cluster-name}
```

-

```
(base) C:\Users\admin>kbccli cluster connect --show-example --show-password mycluster
Connect to instance mycluster-mysql-0
# cluster mycluster does not have public endpoints, you can run following command and connect cluster from localhost
kubectl port-forward service/mycluster-mysql 3306:3306

===== .net connection example =====
# appsettings.json
{
  "ConnectionStrings": {
    "Default": "server=127.0.0.1;port=3306;database=mysql;user=root;password=z27wvf2s;SslMode=VerifyFull;"
  },
}
# Startup.cs
public void ConfigureServices(IServiceCollection services)
{
    services.AddTransient<MySQLConnection>(_ => new MySQLConnection(Configuration["ConnectionStrings:Default"]));
}

===== cli connection example =====
# mysql client connection example
mysql -h 127.0.0.1 -P 3306 -u root -pz27wvf2s
```

执行 `port-forward` 将mysql服务提供给主机，注意这里因为之后本机还需要开启mysql服务，所以为了避免冲突需要将本地端口号修改成其他，这里修改为了3307

```
kubect1 port-forward service/mycluster-mysql 3307:3306
```

Forwarding from 127.0.0.1:3306 -> 3306

Forwarding from [::1]:3306 -> 3306

有关详细的数据库连接指南，请参考[连接数据库](#)。

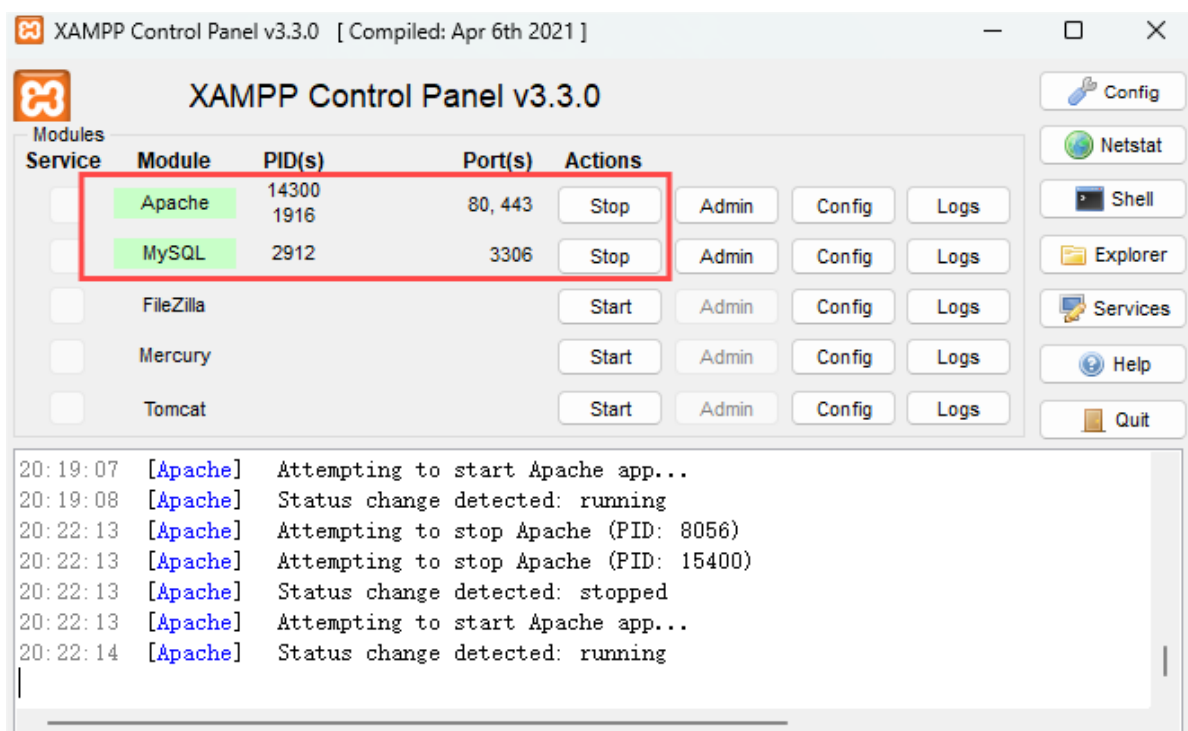
安装moodle

在windows下使用moodle推荐使用xampp

1.下载安装xampp

去官网下载xampp并安装，这是网址[XAMPP Installers and Downloads for Apache Friends](#)

2.打开xampp开启Apache和mysql服务



3.下载moodle

去moodle官网下载适合的文件，这是网址[Latest release | Moodle downloads](#)

Latest release | Moodle downloads

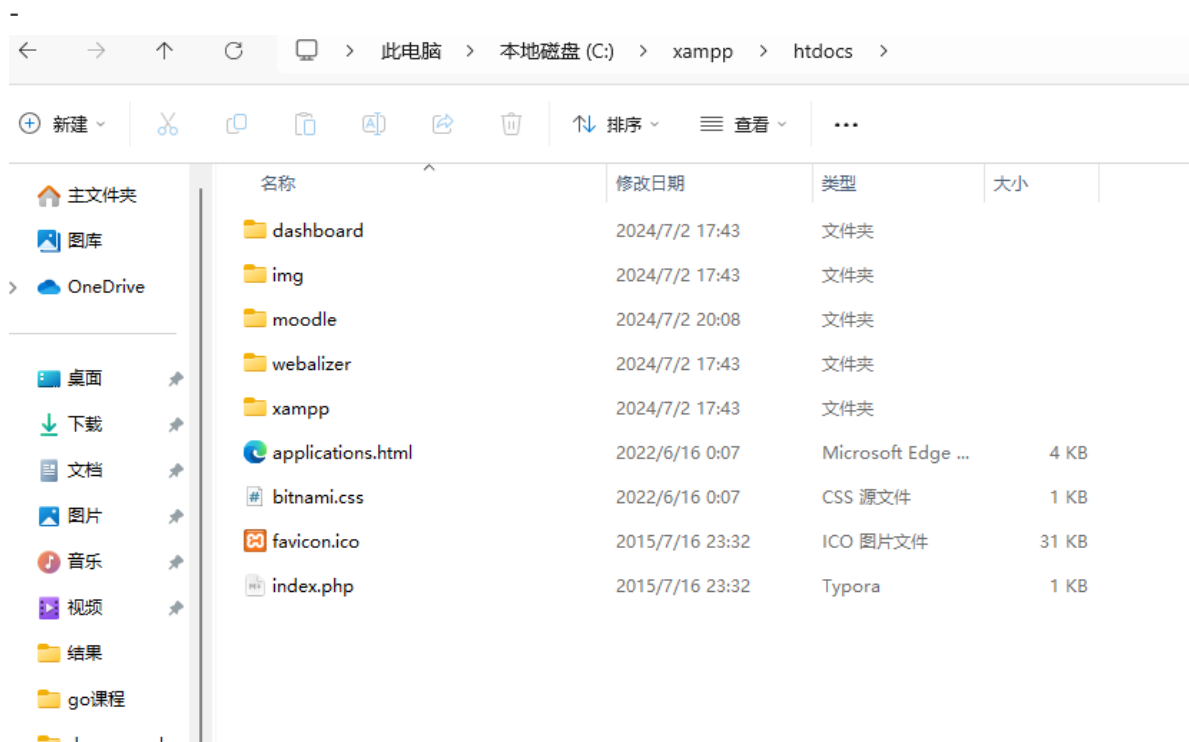
Install Moodle on your own server (requires a web server with PHP and a database) by downloading one of the following packages or [obtaining Moodle via Git](#).

Alternatively, try Moodle on your personal computer with an installer package which includes all other software required to make it run (Apache, MySQL and PHP).

- [Moodle installer package for Mac OS X](#)
- [Moodle installer package for Windows](#)

Version	Information	.tgz	.zip
Moodle 4.4.1+ MOODLE_404_STABLE	This package is built every week with new fixes produced by our stable development process . It contains a number of fixes made since the 4.4.1 release and is usually a better choice for production than the actual 4.4.1 package below. Built Weekly 4 days 22 hours ago <ul style="list-style-type: none">• Recent changes log• Upgrading notes• Requires: PHP 8.1, MariaDB 10.6.7 or MySQL 8.0 or Postgres 13 or MSSQL 2017 or Oracle 19c• Language packs	Download tgz 67.9 MB 523 today [md5] [sha256]	Download zip 89.3 MB 966 today [md5] [sha256]
Moodle 4.4.1 MOODLE_4041	This is the latest official update of Moodle 4.4. 7 June 2024 25 days 5 hours ago <ul style="list-style-type: none">• Release notes• Fixed issues• Upgrading notes• Requires: PHP 8.1, MariaDB 10.6.7 or MySQL 8.0 or Postgres 13 or MSSQL 2017 or Oracle 19c• Language packs	Download tgz 67.9 MB 165 today [md5] [sha256]	Download zip 89.3 MB 194 today [md5] [sha256]

下载完成后将压缩包解压至xampp的下载目录中htdocs/下，如果都是默认配置的话会在 C:\xampp\htdocs



4.安装moodle

打开浏览器输入地址localhost/moodle之后按照下面的步骤安装moodle

1.确定数据目录

Confirm paths

Web address

The full address where Moodle will be accessed i.e. the address that users will enter into the address bar of their browser to access Moodle.

It is not possible to access Moodle using multiple addresses. If your site is accessible via multiple addresses then choose the easiest one and set up a permanent redirect for each of the other addresses.

If your site is accessible both from the Internet, and from an internal network (sometimes called an Intranet), then use the public address here.

If the current address is not correct, please change the URL in your browser's address bar and restart the installation.

Moodle directory

The full path to the directory containing the Moodle code.

Data directory

A directory where Moodle will store all file content uploaded by users.

This directory should be both readable and writeable by the web server user (usually 'www-data', 'nobody', or 'apache').

It must not be directly accessible over the web.

If the directory does not currently exist, the installation process will attempt to create it.

Web address	<input type="text" value="http://localhost/moodle"/>
Moodle directory	<input type="text" value="C:\xampp\htdocs\moodle"/>
Data directory	<input type="text" value="C:\xampp\moodledata"/>

默认配置即可，直接next

2.确定数据库驱动

Installation

Database

Choose database driver

Moodle supports several types of database servers. Please contact server administrator if you do not know which type to use.

Type



3.填写数据库设置，需要用到之前kubeblocks的设置

Installation

Database

Database settings

Improved MySQL (native/mysqli)

The database is where most of the Moodle settings and data are stored and must be configured here.

The database name, username, and password are required fields; table prefix is optional.

The database name may contain only alphanumeric characters, dollar (\$) and underscore (_).

If the database currently does not exist, and the user you specify has permission, Moodle will attempt to create a new database with the correct permissions and settings.

The screenshot shows the 'Database settings' form. The fields are: Database host (localhost), Database name (moodle), Database user (root), Database password (z27wvf2s), Tables prefix (mdl_), and Database port (3307). There are two red annotations with arrows: one pointing to the 'Database password' field with the text '这里的密码填写之前获取到的' (The password entered here is the one obtained previously), and another pointing to the 'Database port' field with the text '这里的端口号填写port-forward步骤的' (The port number entered here is from the port-forward step).

Database host: localhost

Database name: moodle

Database user: root

Database password: z27wvf2s

Tables prefix: mdl_

Database port: 3307

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4.服务器检查

PHP扩展的下载，在这一步中会出现一些服务器组件检查报错

修复步骤如下：

1.使用文本编辑器打开 `php.ini` 文件,他在xampp/下，搜索并取消注释以下扩展行:

- `extension=zip`
- `extension=gd`
- `extension=intl`
- `extension=sodium`
- `max_input_vars`

2.取消 `max_input_vars` 之后将其修改为 `max_input_vars=5000`





3.将 `\xampp\php\libsodium.dll` 库复制到 `\xampp\apache\bin\libsodium.dll`

Installation - Moodle 4.3.5+ (Build: 20240627)

Moodle 4.3.5+ (Build: 20240627)

For information about this version of Moodle, please see the online [Release Notes](#)

Server checks

Name	Information	Report	Plugin	Status
php_extension	zip	 must be installed and enabled The Zip PHP extension is now required by Moodle, info-ZIP binaries or PclZip library are not used anymore.		Check
php_extension	gd	 must be installed and enabled The GD extension is now required by Moodle for image conversion.		Check
php_extension	intl	 must be installed and enabled Intl extension is required to improve internationalization support, such as locale aware sorting and international domain names.		Check
php_extension	sodium	 must be installed and enabled		Check

5.等待下载

之后就是一些下载，等待即可

Installation

System

Success (36.48 seconds)

antivirus_clamav

Success (0.11 seconds)

availability_completion

Success (0.10 seconds)

availability_date

Success (0.11 seconds)

availability_grade

Success (0.11 seconds)

6.moodle基本设置

设置名称和邮件，即将完成啦

Installation

New settings - Site home settings

Full site name

fullname

Required

Short name for site (eg single word)

shortname

Required

New settings - Support contact

Support email

supportemail

Required

If SMTP is configured on this site and a support page is not set, this email address will receive messages submitted through the support form. If sending fails, the email address will be displayed to logged-in users.

Save changes

7.大功告成

到这一步就完成了所有安装，你可以尽情使用moodle啦！！

HomeDashboardMy coursesSite administration

🔔💬AU

Welcome, Admin! 🙌

Timeline

Next 7 days

Sort by dates

Search by activity type or name

No in-progress courses

Calendar

All courses

New event

← June

July 2024

August →

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7