

# Check Your Work (LMS) Set up

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## Step 1: Install Ubuntu

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[https://docs.moodle.org/402/en/Installing\\_Moodle](https://docs.moodle.org/402/en/Installing_Moodle)

### Hardware

- Disk space: 200MB for the Moodle code, plus as much as you need to store content. 5GB is probably a realistic minimum.
- Processor: 1 GHz (min), 2 GHz dual core or more recommended.
- Memory: 512MB (min), 1GB or more is recommended. 8GB plus is likely on a large production server
- Consider separate servers for the web "front ends" and the database. It is much easier to "tune"

All the above requirements will vary depending on specific hardware and software combinations as well as the type of use and load; busy sites may well require additional resources. Further guidance can be found under [performance recommendations](#). Moodle scales easily by increasing hardware.

For very large sites, you are much better starting with a small pilot and gaining some experience and insight. A "what hardware do I need for 50,000 user?" style post in the forums is highly unlikely to get a useful answer.

<https://moodle.org/mod/forum/discuss.php?d=351259#:~:text=Re%3A%20Server%20Hardware%20Requirement%20for%20300%20User,-by%20Usman%20Asar&text=4%2Dcore%20CPU%20with%204GB,300%2B%20without%20changing%20the%20hardware.>

If possible, 8GB RAM & database on separate SSD drive will ensure addition of another 300+ without changing the hardware.

Instance type: t2.large 2vCPU 8GiB Memory

Operating System: Ubuntu 20.04 LTS

Launch an instance | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

EC2 > Instances > Launch an instance

## Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags Info**

Name  Add additional tags

**Application and OS Images (Amazon Machine Image) Info**

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recents My AMIs Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

**Amazon Machine Image (AMI)**

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type Free tier eligible

ami-0261755bbc8c4a84 (64-bit (x86)) / ami-097d5b19d4f1a7d1b (64-bit (Arm))  
Virtualization: hvm ENA enabled: true Root device type: ebs

Description Canonical, Ubuntu, 20.04 LTS, amd64 focal image build on 2023-05-17

Architecture 64-bit (x86) AMI ID ami-0261755bbc8c4a84 Verified provider

**Instance type Info**

t2.large

Family: t2 2 vCPU 8 GiB Memory Current generation: true  
On-Demand Windows pricing: 0.1208 USD per Hour  
On-Demand RHEL pricing: 0.1528 USD per Hour  
On-Demand SUSE pricing: 0.1928 USD per Hour  
On-Demand Linux pricing: 0.0928 USD per Hour

All generations Compare instance types

Summary

Number of instances Info 1

Software Image (AMI) Canonical, Ubuntu, 20.04 LTS, ... read more  
ami-0261755bbc8c4a84

Virtual server type (instance type) t2.large

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance Review commands

Launch an instance | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Option+S]

N. Virginia evencs7346

**Key pair (login) Info**

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - **required**  
checkyourworkkeypair

**Network settings Info** Edit

Network Info  
vpc-008d246c6794f21b94

Subnet Info  
No preference (Default subnet in any availability zone)

Auto-assign public IP Info  
Enable

**Firewall (security groups) Info**  
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group  Select existing security group

We'll create a new security group called 'launch-wizard-12' with the following rules:

Allow SSH traffic from Anywhere 0.0.0.0/0

Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

**Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.**

**Configure storage Info Advanced**

1x 30 GiB gp2 Root volume (Not encrypted)

**Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage**

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

0 x File systems

**Advanced details Info**

CloudShell  Feedback  Language

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**Summary**

Number of instances Info  
1

Software Image (AMI)  
Canonical, Ubuntu, 20.04 LTS, ...[read more](#)  
ami-0261755bbcbb8c4a84

Virtual server type (instance type)  
t2.large

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 30 GiB

**Free tier: In your first year includes** 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Instances | EC2 Management C +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running;v=3;\$case=tags:true%...

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs

CloudShell Feedback Language

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running Clear filters

| Name            | Instance ID         | Instance state | Instance type | Status check      | Alarm status | Availability Zone | Public IPv4 DNS     |
|-----------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|---------------------|
| CheckYourWor... | i-0ea4c3f05d93f8f02 | Running        | t2.large      | 2/2 checks passed | No alarms    | us-east-1a        | ec2-54-197-70-16... |

Select an instance

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The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with links for EC2 Dashboard, Instances, Images, Elastic Block Store, Network & Security, and CloudShell. The main content area is titled 'Instances (1) Info' and shows a single instance named 'CheckYourWor...' with the ID 'i-0ea4c3f05d93f8f02'. The instance is listed as 'Running' in the 'Instance state' column, has an 't2.large' instance type, and a '2/2 checks passed' status in the 'Status check' column. It is located in the 'us-east-1a' availability zone with a public IPv4 DNS of 'ec2-54-197-70-16...'. A search bar at the top allows filtering instances by attribute or tag. At the bottom, there are links for CloudShell, Feedback, and Language, along with copyright information and privacy terms.

```
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1036-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

System information as of Sat Jul 15 14:57:41 UTC 2023

System load: 0.25      Processes:          116
Usage of /: 5.5% of 28.89GB  Users logged in:   0
Memory usage: 3%
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

>-
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-90-75:~$
```

## Step 2: Install Apache/MySQL/PHP

```
sudo apt update
```

```
sudo apt-get install vim
```

```
sudo apt install apache2 mysql-client mysql-server php7.4 libapache2-mod-php
```

If this command not success, download them one by one.

```
sudo apt-get install apache2
```

```
sudo apt-get install mysql-client
```

```
sudo apt-get install mysql-server
```

```
sudo apt-get install php7.4
```

```
sudo apt-get install libapache2-mod-php
```

```
ubuntu@ip-172-31-90-75:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [2687 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [449 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [16.9 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [2092 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [291 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [576 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1083 kB]
Get:18 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [2304 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [259 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [25.2 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [25.8 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7424 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [620 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [45.7 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [16.3 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [1420 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [25.0 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [16.3 kB]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [880 B]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:32 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [366 kB]
Get:33 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [13.0 kB]
Get:34 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [1987 kB]
Get:35 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [277 kB]
Get:36 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [576 B]
Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [855 kB]
Get:38 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [178 kB]
Get:39 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [18.7 kB]
```

```
ubuntu@ip-172-31-90-75:~$ sudo apt-get install vim
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  vim-common vim-runtime vim-tiny
Suggested packages:
  ctags vim-doc vim-scripts indent
The following packages will be upgraded:
  vim vim-common vim-runtime vim-tiny
4 upgraded, 0 newly installed, 0 to remove and 79 not upgraded.
Need to get 7782 kB of archives.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 vim amd64 2:8.1.2269-1ubuntu5.15 [1241 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 vim-tiny amd64 2:8.1.2269-1ubuntu5.15 [581 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 vim-runtime all 2:8.1.2269-1ubuntu5.15 [5873 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 vim-common all 2:8.1.2269-1ubuntu5.15 [87.2 kB]
Fetched 7782 kB in 0s (49.8 MB/s)
(Reading database ... 61929 files and directories currently installed.)
Preparing to unpack .../vim_2%3a8.1.2269-1ubuntu5.15_amd64.deb ...
Unpacking vim (2:8.1.2269-1ubuntu5.15) over (2:8.1.2269-1ubuntu5.14) ...
Preparing to unpack .../vim-tiny_2%3a8.1.2269-1ubuntu5.15_amd64.deb ...
Unpacking vim-tiny (2:8.1.2269-1ubuntu5.15) over (2:8.1.2269-1ubuntu5.14) ...
Preparing to unpack .../vim-runtime_2%3a8.1.2269-1ubuntu5.15_all.deb ...
Unpacking vim-runtime (2:8.1.2269-1ubuntu5.15) over (2:8.1.2269-1ubuntu5.14) ...
Preparing to unpack .../vim-common_2%3a8.1.2269-1ubuntu5.15_all.deb ...
Unpacking vim-common (2:8.1.2269-1ubuntu5.15) over (2:8.1.2269-1ubuntu5.14) ...
Setting up vim-common (2:8.1.2269-1ubuntu5.15) ...
Setting up vim-runtime (2:8.1.2269-1ubuntu5.15) ...
Setting up vim (2:8.1.2269-1ubuntu5.15) ...
Setting up vim-tiny (2:8.1.2269-1ubuntu5.15) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
ubuntu@ip-172-31-90-75:~$
```

```
ubuntu@ip-172-31-90-75:~$ sudo apt install apache2 mysql-client mysql-server php7.4 libapache2-mod-php
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapache2-mod-php7.4 libapr1 libaprutil libaprutil1-dbd-sqlite3
  libaprutil1-ldap libcgi-fast-perl libcgi-pm-perl libencode-locale-perl libevent-core-2.1-7
  libevent-pthreads-2.1-7 libfcgi-perl libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl
  libhttp-date-perl libhttp-message-perl libio-html-perl libjansson4 liblua5.2-0 liblwp-mediatypes-perl
  libmecab2 libtimedate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
  mysql-client-core-8.0 mysql-common mysql-server-8.0 mysql-server-core-8.0 php-common php7.4-cli
  php7.4-common php7.4-json php7.4-opcache php7.4-readline ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser php-pear libdata-dump-perl
  libipc-sharedcache-perl libwww-perl mailx tinyca openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapache2-mod-php libapache2-mod-php7.4 libapr1
  libaprutil libaprutil1-dbd-sqlite3 libaprutil1-ldap libcgi-fast-perl libcgi-pm-perl
  libencode-locale-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-perl libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
  libjansson4 liblua5.2-0 liblwp-mediatypes-perl libmecab2 libtimedate-perl liburi-perl mecab-ipadic
  mecab-ipadic-utf8 mecab-utils mysql-client mysql-client-8.0 mysql-client-core-8.0 mysql-common
  mysql-server mysql-server-8.0 mysql-server-core-8.0 php-common php7.4 php7.4-cli php7.4-common
  php7.4-json php7.4-opcache php7.4-readline ssl-cert
0 upgraded, 46 newly installed, 0 to remove and 79 not upgraded.
Need to get 42.7 MB of archives.
After this operation, 345 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libapr1 amd64 1.6.5-1ubuntu1 [91.4 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1 amd64 1.6.1-4ubuntu2.1 [84.9 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-4ubuntu2.1 [10.6 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-ldap amd64 1.6.1-4ubuntu2.1 [8756 B]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libjansson4 amd64 2.12-1build1 [28.9 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 liblua5.2-0 amd64 5.2.4-1.1build3 [106 kB]
```

## Step 3: Install Additional Software

```
sudo apt install graphviz aspell ghostscript clamav php7.4-pspell php7.4-curl php7.4-gd
php7.4-intl php7.4-mysql php7.4-xml php7.4-xmlrpc php7.4-ldap php7.4-zip php7.4-soap
php7.4-mbstring
```

If this command not success, download them one by one.

```
sudo apt install graphviz
```

```
sudo apt install aspell
```

```
sudo apt install ghostscript
```

```
sudo apt install clamav
```

```
sudo apt install php7.4-pspell php7.4-curl php7.4-gd php7.4-intl php7.4-mysql php7.4-xml  
php7.4-xmlrpc php7.4-ldap php7.4-zip php7.4-soap php7.4-mbstring
```

The screenshot shows a terminal window with the following output:

```
ubuntu@ip-172-31-90-75:~$ sudo apt install graphviz aspell ghostscript clamav php7.4-pspell php7.4-curl php7.  
4-gd php7.4-intl php7.4-mysql php7.4-xml php7.4-xmlrpc php7.4-ldap php7.4-zip php7.4-soap php7.4-mbstring  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  aspell-en clamav-base clamav-freshclam dictionaries-common emacsclient-common fontconfig fontconfig-config  
  fonts-dejavu-core fonts-droid-fallback fonts-liberation fonts-noto-mono fonts-urw-base35 libann0  
  libaspell15 libavahi-client3 libavahi-common-data libavahi-common3 libcairo2 libcdt5 libcgraph6  
  libclamav9 libcups2 libdatrie1 libfontconfig1 libgd3 libgraphite2-3 libgs9 libgs9-common libgts-0.7-5  
  libgts-bin libgvc6 libgvpr2 libharfbuzz0b libice6 libidn11 libijs-0.35 libjbig0 libjbig2dec0  
  libjpeg-turbo8 libjpeg8 liblab-gamut1 liblcms2-2 libonig5 libopenjp2-7 libpango-1.0-0 libpangocairo-1.0-0  
  libpangoft2-1.0-0 libpaper-utils libpaper1 libpathplan4 libpixman-1-0 libsm6 libtfm1 libthai-data  
  libthai0 libtiff5 libwebp6 libxaw7 libxcb-render0 libxcb-shm0 libxmlrpc-epi0 libxmu6 libxpm4 libxrender1  
  libxt6 libzip5 poppler-data x11-common  
Suggested packages:  
  aspell-doc spellutils libclamunrar clamav-docs wordlist fonts-noto fonts-freefont-otf  
  | fonts-freefont-ttf fonts-texgyre ghostscript-x gsfonts graphviz-doc libclamunrar9 cups-common  
  libgd-tools liblcms2-utils poppler-utils fonts-japanese-mincho | fonts-ipafont-mincho  
  fonts-japanese-gothic | fonts-ipafont-gothic fonts-archic-ukai fonts-archic-uming fonts-nanum  
The following NEW packages will be installed:  
  aspell aspell-en clamav clamav-base clamav-freshclam dictionaries-common emacsclient-common fontconfig  
  fontconfig-config fonts-dejavu-core fonts-droid-fallback fonts-liberation fonts-noto-mono  
  fonts-urw-base35 ghostscript graphviz libann0 libaspell15 libavahi-client3 libavahi-common-data  
  libavahi-common3 libcairo2 libcdt5 libcgraph6 libclamav9 libcups2 libdatrie1 libfontconfig1 libgd3  
  libgraphite2-3 libgs9 libgs9-common libgts-0.7-5 libgts-bin libgvc6 libharfbuzz0b libice6  
  libidn11 libijs-0.35 libjbig0 libjbig2dec0 libjpeg-turbo8 libjpeg8 liblab-gamut1 liblcms2-2 libonig5  
  libopenjp2-7 libpango-1.0-0 libpangocairo-1.0-0 libpangoft2-1.0-0 libpaper-utils libpaper1 libpathplan4  
  libpixman-1-0 libsm6 libtfm1 libthai-data libthai0 libtiff5 libwebp6 libxaw7 libxcb-render0 libxcb-shm0  
  libxmlrpc-epi0 libxmu6 libxpm4 libxrender1 libxt6 libzip5 php7.4-curl php7.4-gd php7.4-intl php7.4-ldap  
  php7.4-mbstring php7.4-mysql php7.4-pspell php7.4-soap php7.4-xml php7.4-xmlrpc php7.4-zip poppler-data  
  x11-common  
0 upgraded, 83 newly installed, 0 to remove and 79 not upgraded.  
Need to get 23.5 MB of archives.  
After this operation, 90.4 MB of additional disk space will be used.  
Do you want to continue? [Y/n] Y  
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 fonts-droid-fallback all 1:6.0.1r16-1.1  
[1805 kB]  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 poppler-data all 0.4.9-2 [1475 kB]
```

```
sudo service apache2 restart
```

```
sudo apt install git
```

The screenshot shows a terminal window with a dark theme. The command history at the bottom includes:

```
ubuntu@ip-172-31-90-75:~$ sudo service apache2 restart
ubuntu@ip-172-31-90-75:~$ sudo apt install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.25.1-1ubuntu3.11).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 79 not upgraded.
ubuntu@ip-172-31-90-75:~$
```

## Step 4: Download Moodle

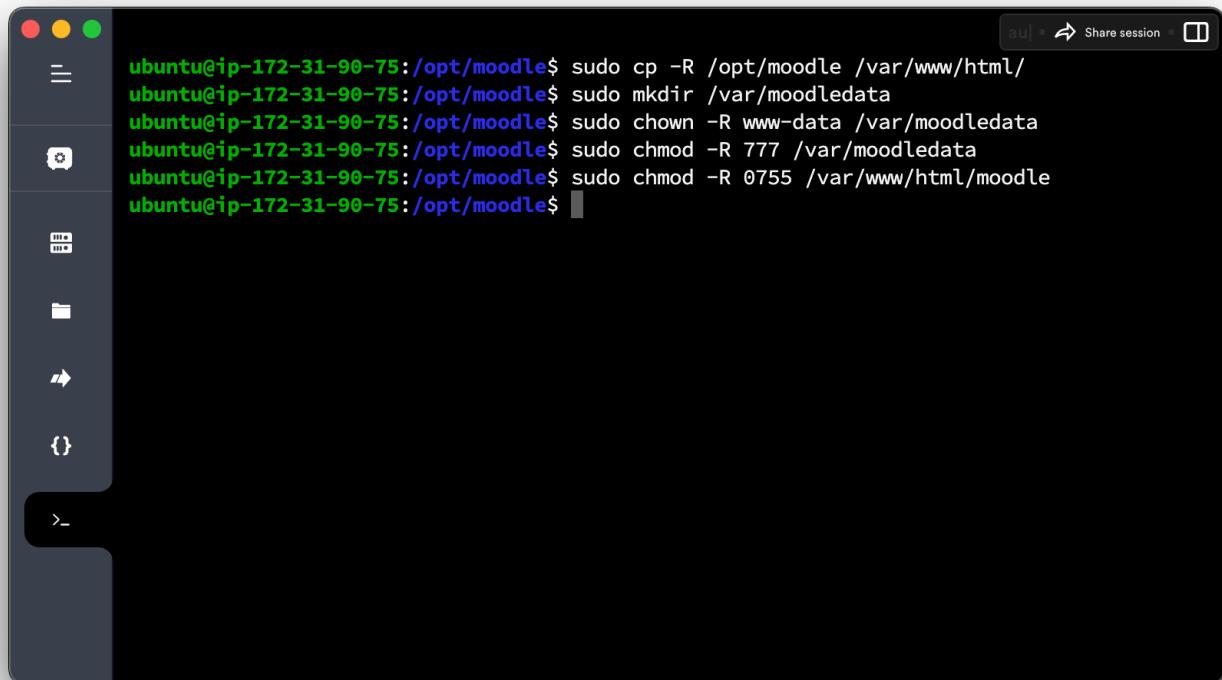
```
cd /opt
sudo git clone git://git.moodle.org/moodle.git
cd moodle
sudo git branch -a
sudo git branch --track MOODLE_400_STABLE origin/MOODLE_400_STABLE
sudo git checkout MOODLE_400_STABLE
```

```
ubuntu@ip-172-31-90-75:~$ cd /opt
ubuntu@ip-172-31-90-75:/opt$ sudo git clone git://git.moodle.org/moodle.git
Cloning into 'moodle'...
remote: Enumerating objects: 1395634, done.
remote: Counting objects: 100% (1849/1849), done.
remote: Compressing objects: 100% (868/868), done.
remote: Total 1395634 (delta 1084), reused 1337 (delta 936), pack-reused 1393785
Receiving objects: 100% (1395634/1395634), 469.10 MiB | 19.57 MiB/s, done.
Resolving deltas: 100% (1047400/1047400), done.
Updating files: 100% (25145/25145), done.
ubuntu@ip-172-31-90-75:/opt$ sudo git branch -a
fatal: not a git repository (or any of the parent directories): .git
ubuntu@ip-172-31-90-75:/opt$ cd moodle/
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo git branch -a
* master
  remotes/origin/HEAD -> origin/master
  remotes/origin/MOODLE_13_STABLE
  remotes/origin/MOODLE_14_STABLE
  remotes/origin/MOODLE_15_STABLE
  remotes/origin/MOODLE_16_STABLE
  remotes/origin/MOODLE_17_STABLE
  remotes/origin/MOODLE_18_STABLE
  remotes/origin/MOODLE_19_STABLE
  remotes/origin/MOODLE_20_STABLE
  remotes/origin/MOODLE_21_STABLE
  remotes/origin/MOODLE_22_STABLE
  remotes/origin/MOODLE_23_STABLE
  remotes/origin/MOODLE_24_STABLE
  remotes/origin/MOODLE_25_STABLE
  remotes/origin/MOODLE_26_STABLE
  remotes/origin/MOODLE_27_STABLE
  remotes/origin/MOODLE_28_STABLE
  remotes/origin/MOODLE_29_STABLE
  remotes/origin/MOODLE_30_STABLE
  remotes/origin/MOODLE_310_STABLE
  remotes/origin/MOODLE_311_STABLE
  remotes/origin/MOODLE_31_STABLE
  remotes/origin/MOODLE_32_STABLE
  remotes/origin/MOODLE_33_STABLE
  remotes/origin/MOODLE_34_STABLE
  remotes/origin/MOODLE_35_STABLE
  remotes/origin/MOODLE_36_STABLE
  remotes/origin/MOODLE_37_STABLE
  remotes/origin/MOODLE_38_STABLE
  remotes/origin/MOODLE_39_STABLE
  remotes/origin/MOODLE_400_STABLE
  remotes/origin/MOODLE_401_STABLE
  remotes/origin/MOODLE_402_STABLE
  remotes/origin/master
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo git branch --track MOODLE_400_STABLE origin/MOODLE_400_STABLE
Branch 'MOODLE_400_STABLE' set up to track remote branch 'MOODLE_400_STABLE' from 'origin'.
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo git checkout MOODLE_400_STABLE
Updating files: 100% (12477/12477), done.
Switched to branch 'MOODLE_400_STABLE'
Your branch is up to date with 'origin/MOODLE_400_STABLE'.
ubuntu@ip-172-31-90-75:/opt/moodle$
```

## Step 5: Copy local repository to /var/www/html/

```
sudo cp -R /opt/moodle /var/www/html/
sudo mkdir /var/moodledata
sudo chown -R www-data /var/moodledata
sudo chmod -R 777 /var/moodledata
```

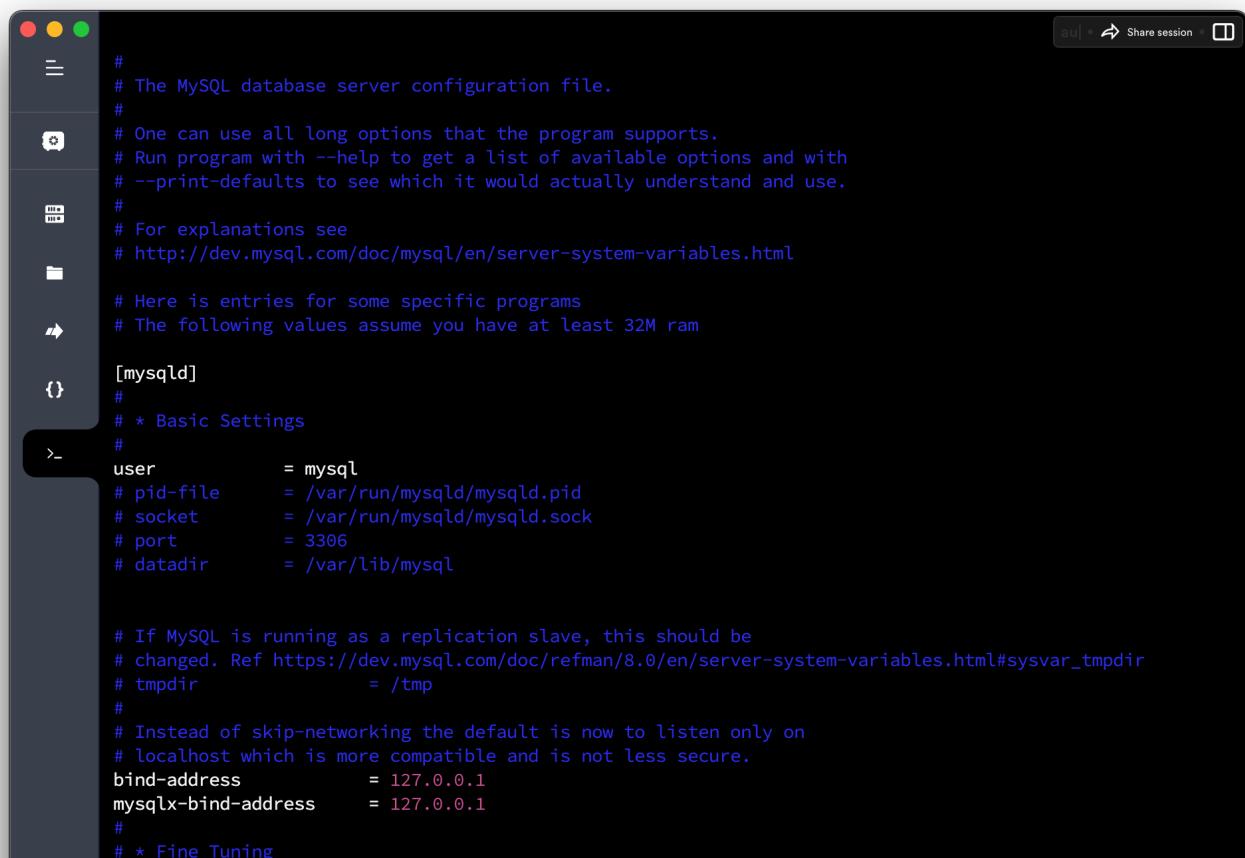
```
sudo chmod -R 0755 /var/www/html/moodle
```



```
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo cp -R /opt/moodle /var/www/html/
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo mkdir /var/moodledata
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo chown -R www-data /var/moodledata
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo chmod -R 777 /var/moodledata
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo chmod -R 0755 /var/www/html/moodle
ubuntu@ip-172-31-90-75:/opt/moodle$
```

## Step 6: Setup MySQL Server

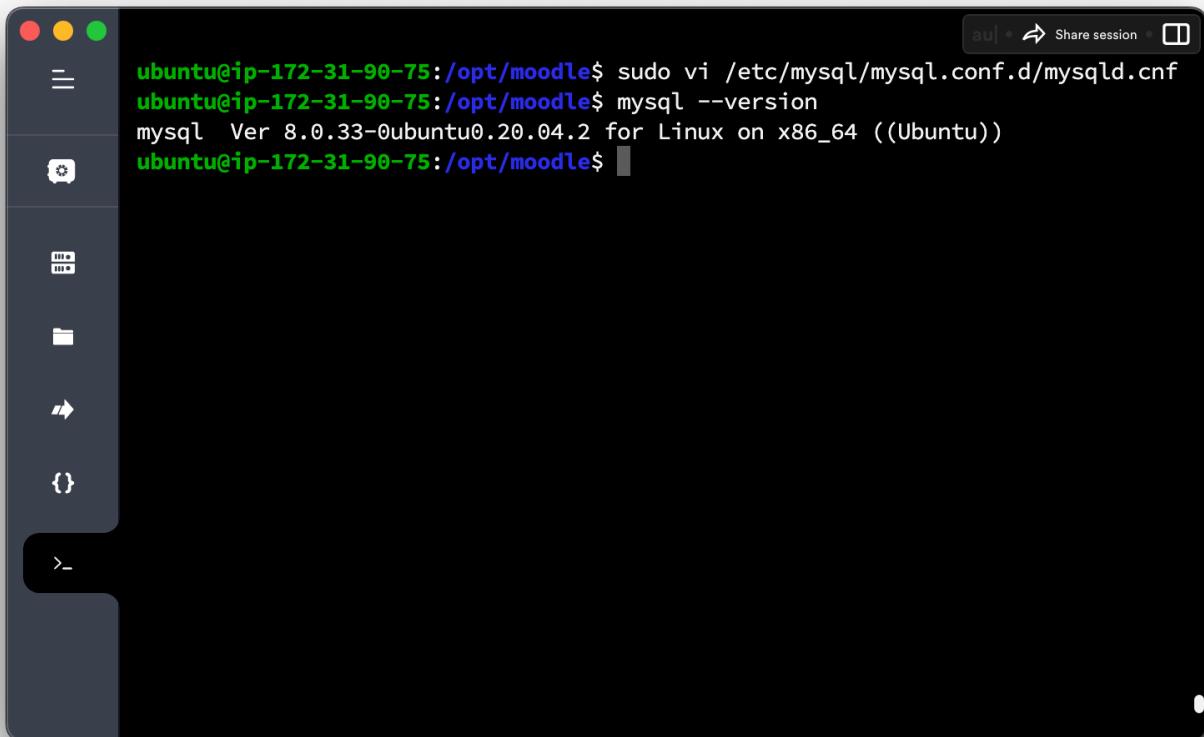
```
sudo vi /etc/mysql/mysql.conf.d/mysqld.cnf
```



```
# 
# The MySQL database server configuration file.
#
# One can use all long options that the program supports.
# Run program with --help to get a list of available options and with
# --print-defaults to see which it would actually understand and use.
#
# For explanations see
# http://dev.mysql.com/doc/mysql/en/server-system-variables.html
#
# Here is entries for some specific programs
# The following values assume you have at least 32M ram
#
[mysqld]
#
# * Basic Settings
#
user          = mysql
# pid-file     = /var/run/mysqld/mysqld.pid
# socket       = /var/run/mysqld/mysqld.sock
# port         = 3306
# datadir      = /var/lib/mysql

# If MySQL is running as a replication slave, this should be
# changed. Ref https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.html#sysvar_tmpdir
# tmpdir        = /tmp
#
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address    = 127.0.0.1
mysqlx-bind-address = 127.0.0.1
#
# * Fine Tuning
```

```
#  
key_buffer_size      = 16M  
# max_allowed_packet = 64M  
# thread_stack        = 256K  
  
# thread_cache_size   = -1  
  
# This replaces the startup script and checks MyISAM tables if needed  
# the first time they are touched  
myisam-recover-options = BACKUP  
  
# max_connections     = 151  
  
# table_open_cache    = 4000  
  
#  
# * Logging and Replication  
#  
# Both location gets rotated by the cronjob.  
#  
# Log all queries  
# Be aware that this log type is a performance killer.  
# general_log_file    = /var/log/mysql/query.log  
# general_log          = 1  
#  
# Error log - should be very few entries.  
#  
log_error = /var/log/mysql/error.log  
#  
# Here you can see queries with especially long duration  
# slow_query_log       = 1  
# slow_query_log_file  = /var/log/mysql/mysql-slow.log  
# long_query_time      = 2  
# log-queries-not-using-indexes  
#  
# The following can be used as easy to replay backup logs or for replication.  
# note: if you are setting up a replication slave, see README.Debian about  
#       other settings you may need to change.  
# server-id            = 1  
# log_bin               = /var/log/mysql/mysql-bin.log  
# binlog_expire_logs_seconds = 2592000  
max_binlog_size      = 100M
```



A screenshot of a macOS terminal window titled "au". The window shows the command "sudo vi /etc/mysql/mysql.conf.d/mysqld.cnf" being run, followed by the MySQL --version command, which returns "mysql Ver 8.0.33-0ubuntu0.20.04.2 for Linux on x86\_64 ((Ubuntu))". The terminal has a dark theme with light-colored text.

```
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo vi /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-172-31-90-75:/opt/moodle$ mysql --version
mysql Ver 8.0.33-0ubuntu0.20.04.2 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-90-75:/opt/moodle$
```

For MySQL Ver < 8.0, the three settings below are needed.

```
default_storage_engine = innodb
innodb_file_per_table = 1
innodb_file_format = Barracuda
```

```
sudo service mysql restart
```

```
sudo mysql -u root -p
```

ubuntu default password is none, just return is ok.

```
CREATE DATABASE moodle DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;
```

```
create user 'moodledude'@'localhost' IDENTIFIED BY 'passwordformoodledude';
```

```
GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,CREATE TEMPORARY TABLES,DROP,INDEX,ALTER ON
moodle.* TO 'moodledude'@'localhost';
```

```
quit;
```

```
ubuntu@ip-172-31-90-75:/opt/moodle$ mysql --version
mysql Ver 8.0.33-0ubuntu0.20.04.2 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo service mysql restart
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.33-0ubuntu0.20.04.2 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

->
mysql> CREATE DATABASE moodle DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;
Query OK, 1 row affected (0.01 sec)

mysql> create user 'moodledude'@'localhost' IDENTIFIED BY 'passwordformoodledude';
Query OK, 0 rows affected (0.01 sec)

mysql> quit
Bye
ubuntu@ip-172-31-90-75:/opt/moodle$
```

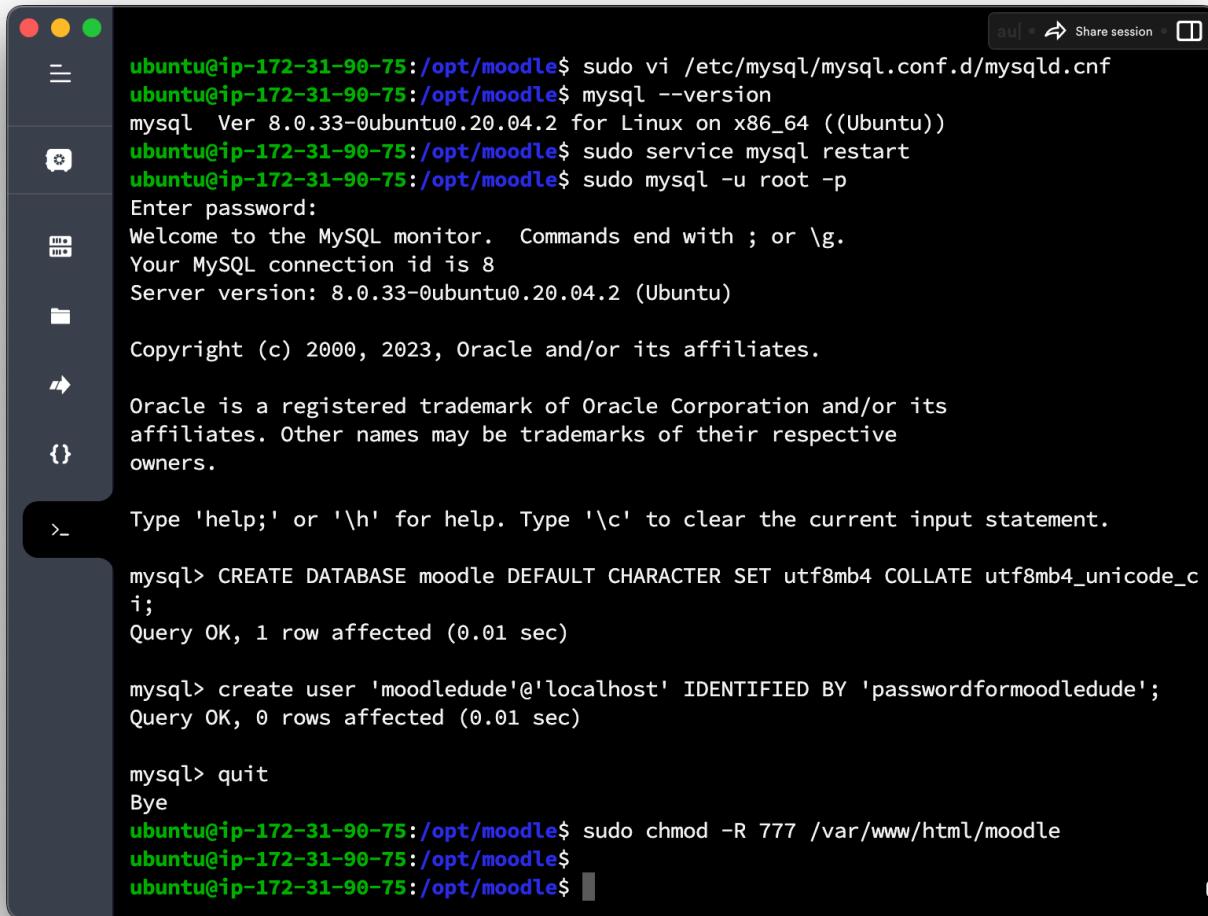
```
mysql> select user,host from user;
ERROR 1046 (3D000): No database selected
mysql> select user from mysql
      -> ;
ERROR 1046 (3D000): No database selected
mysql> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for
the right syntax to use near 'database' at line 1
mysql> show databases;
+-----+
| Database      |
+-----+
| information_schema |
| moodle        |
| mysql          |
| performance_schema |
| sys            |
+-----+
5 rows in set (0.00 sec)

mysql> use moodle;
Database changed
mysql> create user 'moodledude'@'localhost' IDENTIFIED BY 'passwordformoodledude';
ERROR 1396 (HY000): Operation CREATE USER failed for 'moodledude'@'localhost'
mysql> GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,CREATE TEMPORARY TABLES,DROP,INDEX,ALTER ON moodle.* TO 'moodledude'@'localhost';
Query OK, 0 rows affected (0.01 sec)

mysql> quit;
Bye
ubuntu@ip-172-31-90-75:/var/www/html/moodle$ sudo service mysql restart
ubuntu@ip-172-31-90-75:/var/www/html/moodle$
```

## Step 7: Complete Setup

```
sudo chmod -R 777 /var/www/html/moodle
```



A screenshot of a terminal window titled "au" with a "Share session" button. The terminal shows the following sequence of commands:

```
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo vi /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-172-31-90-75:/opt/moodle$ mysql --version
mysql Ver 8.0.33-0ubuntu0.20.04.2 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo service mysql restart
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.33-0ubuntu0.20.04.2 (Ubuntu)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

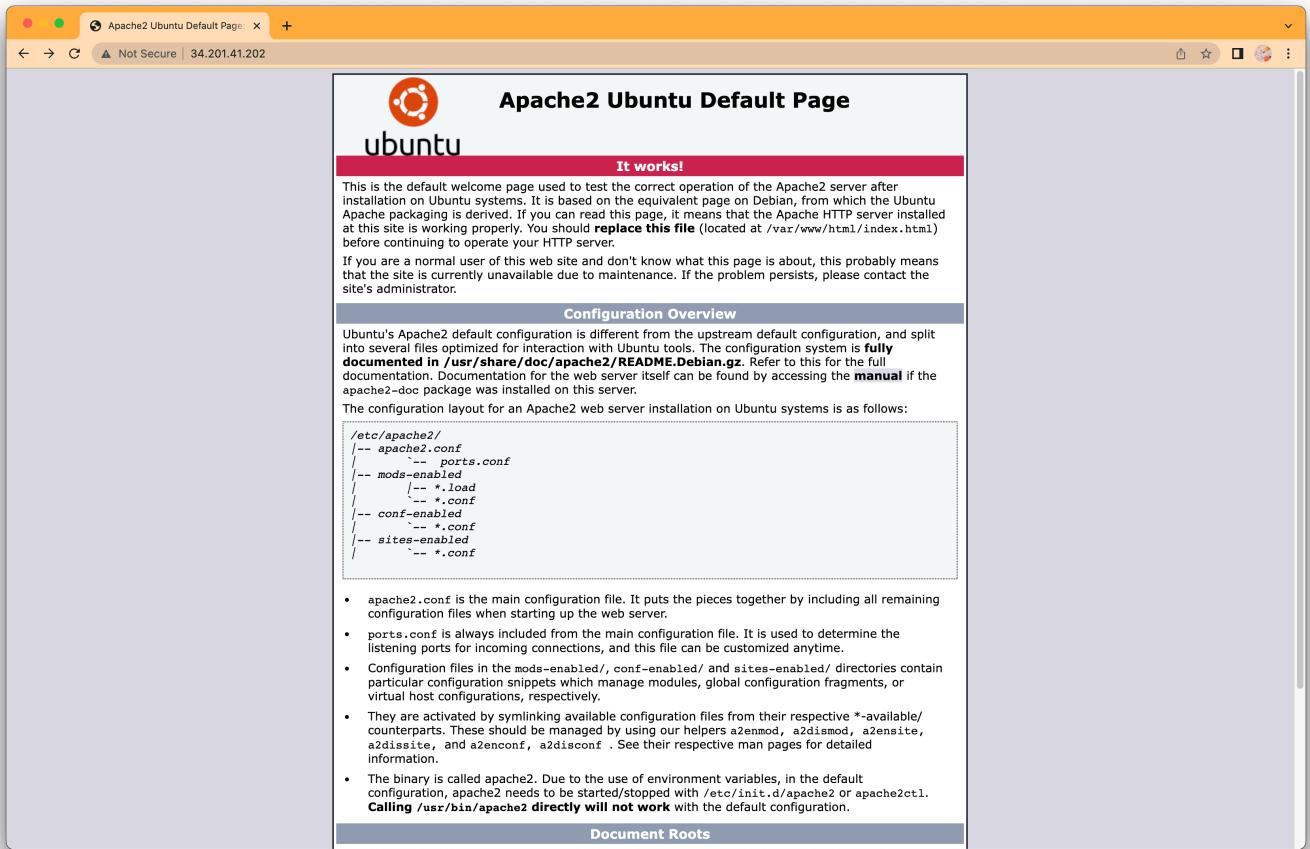
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

> Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE moodle DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;
Query OK, 1 row affected (0.01 sec)

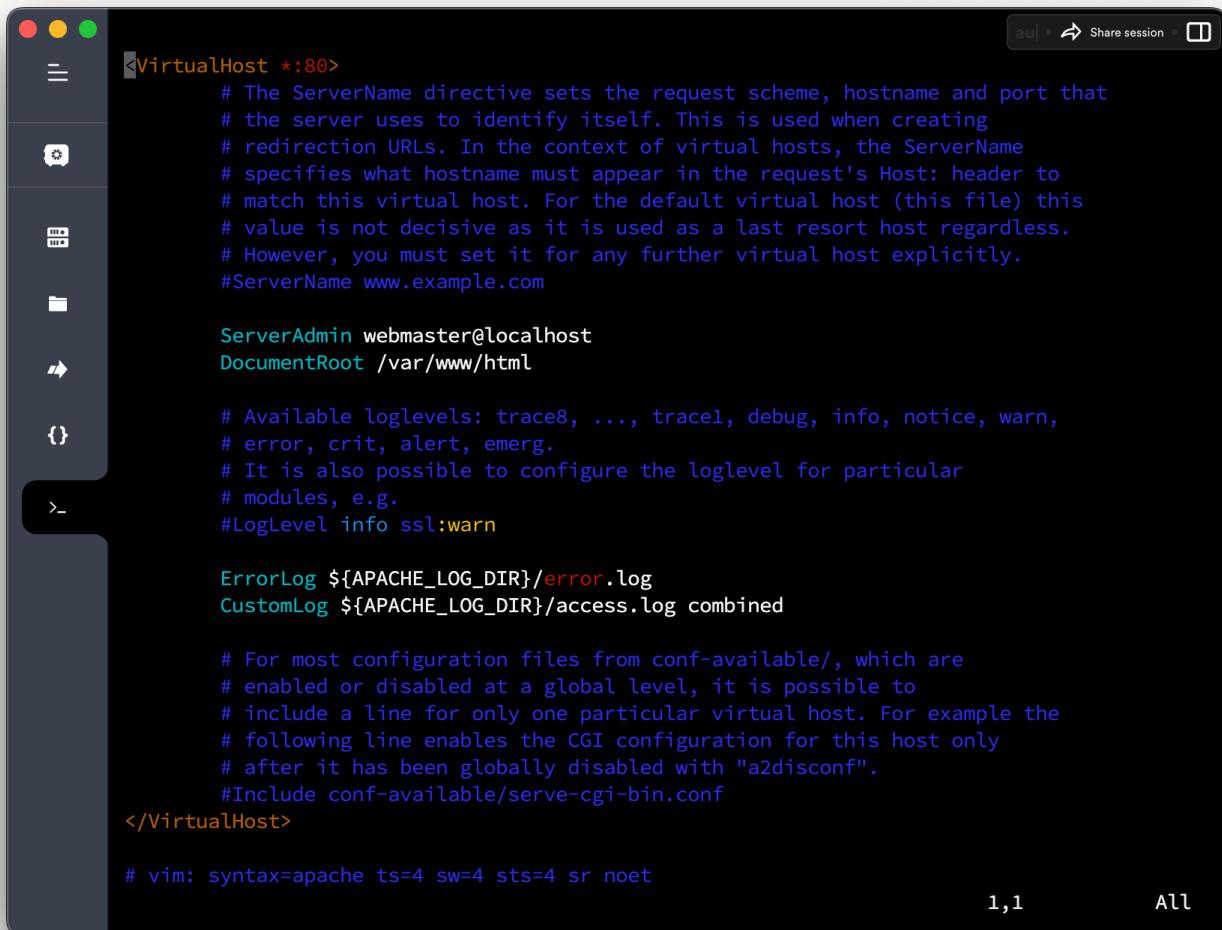
mysql> create user 'moodledude'@'localhost' IDENTIFIED BY 'passwordformoodledude';
Query OK, 0 rows affected (0.01 sec)

mysql> quit
Bye
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo chmod -R 777 /var/www/html/moodle
ubuntu@ip-172-31-90-75:/opt/moodle$
```



```
sudo vi /etc/apache2/sites-available/000-default.conf
```

```
sudo service apache2 restart
```



A screenshot of a terminal window displaying an Apache configuration file. The file is titled 'VirtualHost \*:80' and contains various directives. The code is color-coded for syntax highlighting, with comments in blue and other text in white. The terminal interface includes a sidebar with icons for file operations and a status bar at the bottom right.

```
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

1,1

All

```
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html/moodle

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

12,34-41 All

A screenshot of a terminal window titled "au". The window shows the file structure of a Moodle installation and some terminal commands:

```
PULL_REQUEST_TEMPLATE.txt config-dist.php iplookup
README.txt contentbank lang
TRADEMARK.txt course lib
admin customfield local
analytics dataformat login
auth draftfile.php media
availability enrol mnet
backup editmode.php message
badges error mod
behat.yml.dist favourites my
blocks file.php notes
hp files npm-shrinkwrap.json user
blog filter package.json userpix
brokenfile.php grade payment
cache calendar group phpcs.xml.dist version.php
calendar cohort h5p phpunit.xml.dist webservice
cohort comment help.php pix
comment
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo vi /etc/apache2/sites-available/000-default.conf
ubuntu@ip-172-31-90-75:/opt/moodle$ sudo service apache2 restart
ubuntu@ip-172-31-90-75:/opt/moodle$
```

Open your browser and go to <http://IP.ADDRESS.OF.SERVER>

Installation - Moodle 4.0.9+ (E X +)

Not Secure | 34.201.41.202/install.php

# Installation

## Language

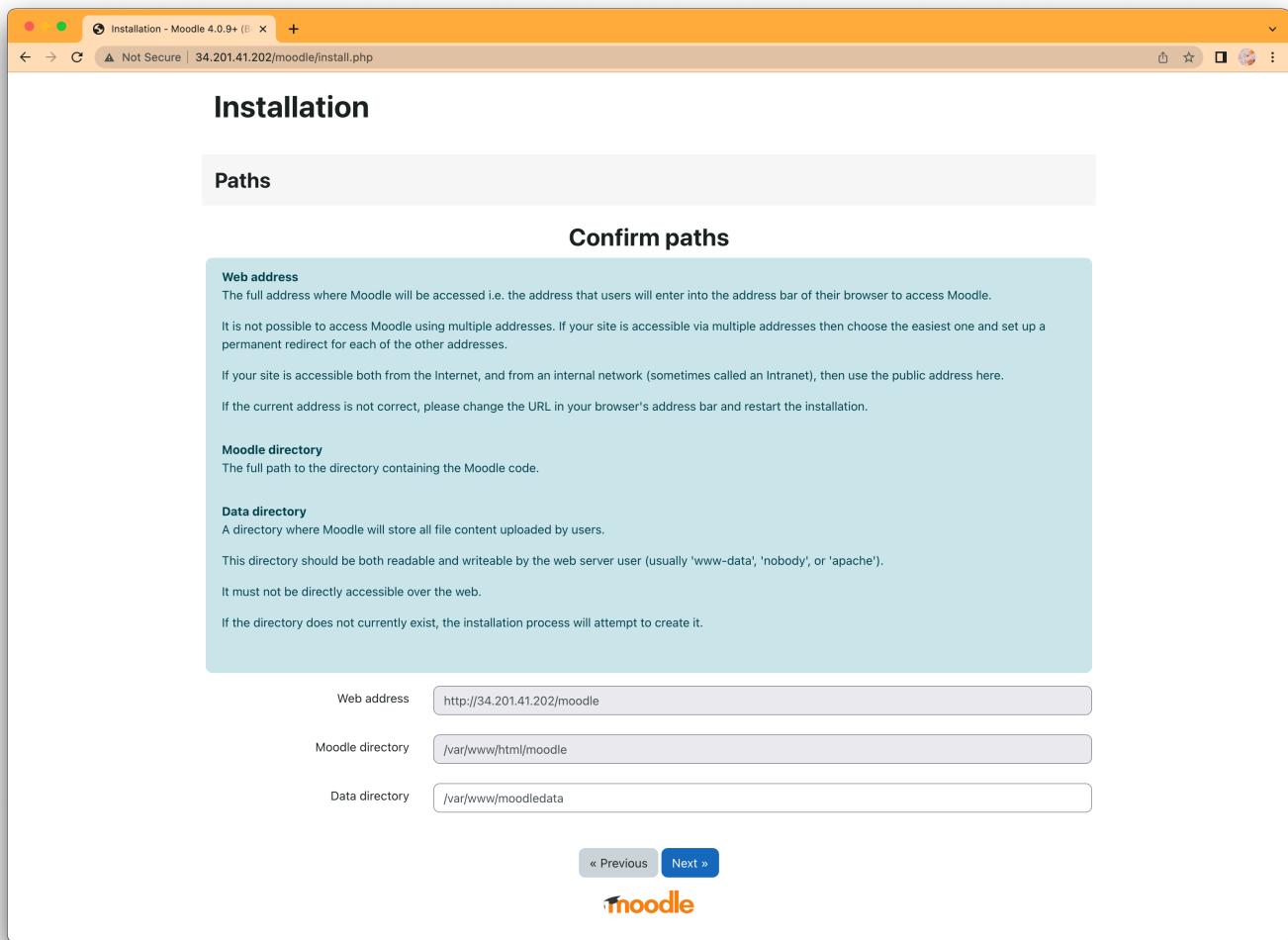
### Choose a language

Please choose a language for the installation. This language will also be used as the default language for the site, though it may be changed later.

Language English (en) ▾

Next »

moodle



Follow the prompts:

## Change the path for moodledata

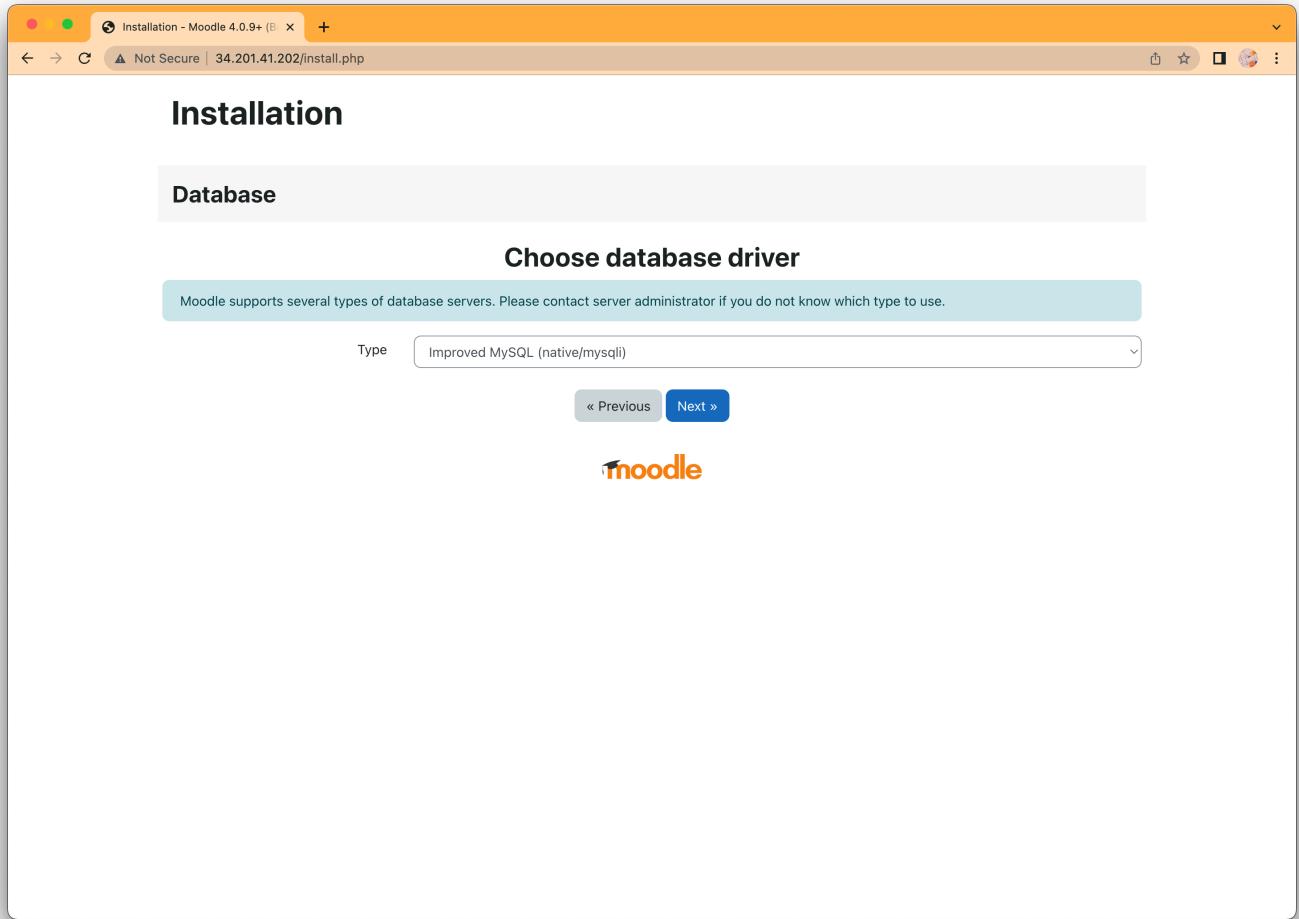
The screenshot shows the 'Paths' step of a Moodle 4.0.9+ installation. The title is 'Confirm paths'. The page contains three main sections: 'Web address', 'Moodle directory', and 'Data directory'. Each section has a description and a note. Below these are three input fields for configuration:

- Web address:** http://34.201.41.202
- Moodle directory:** /var/www/html/moodle
- Data directory:** /var/moodledata (highlighted with a blue border)

At the bottom are navigation buttons: « Previous and Next ».

## Database Type

Choose: mysqli



## Database Settings

Host server: localhost

Database: moodle

User: moodledude (the user you created when setting up the database)

Password: passwordformoodledude (the password for the user you created)

Tables Prefix: mdl\_

Installation - Moodle 4.0.9+ (E) +

Not Secure | 34.201.41.202/install.php

## 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.

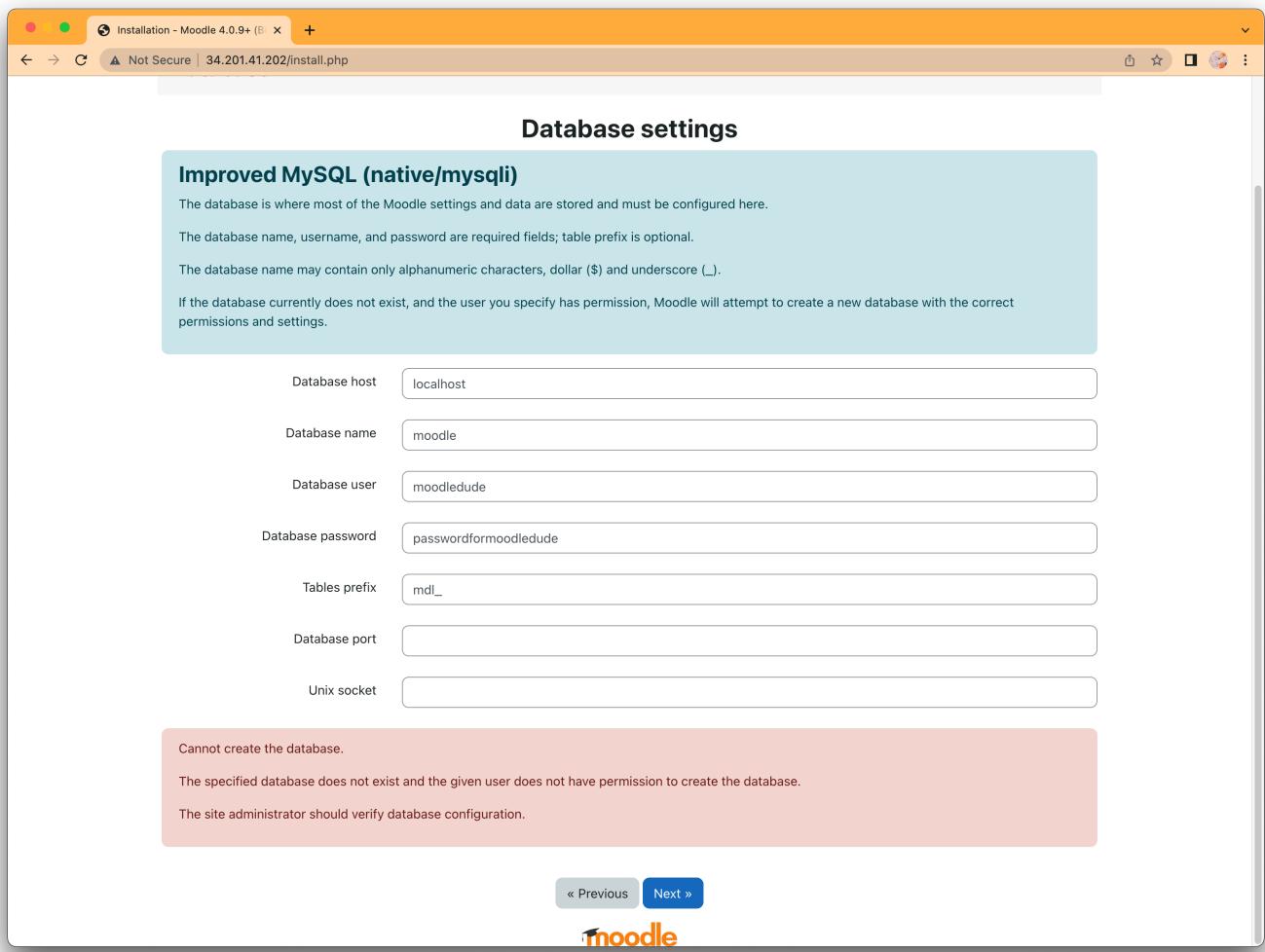
The database name may contain only alphanumeric characters, dollar (\$) and underscore (\_).

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.

|                   |                       |
|-------------------|-----------------------|
| Database host     | localhost             |
| Database name     | moodle                |
| Database user     | moodledude            |
| Database password | passwordformoodledude |
| Tables prefix     | mdl_                  |
| Database port     |                       |
| Unix socket       |                       |

« Previous Next »





需要修改权限

how to change ubuntu password

```
sudo su -
```

```
passwd
```

```
exit
```

```
cs123456
```

```
cd /var/www/html/moodle
```

```
sudo cp config-dist.php config.php
```

```
sudo vim config.php
```

```
sudo service apache2 restart
```

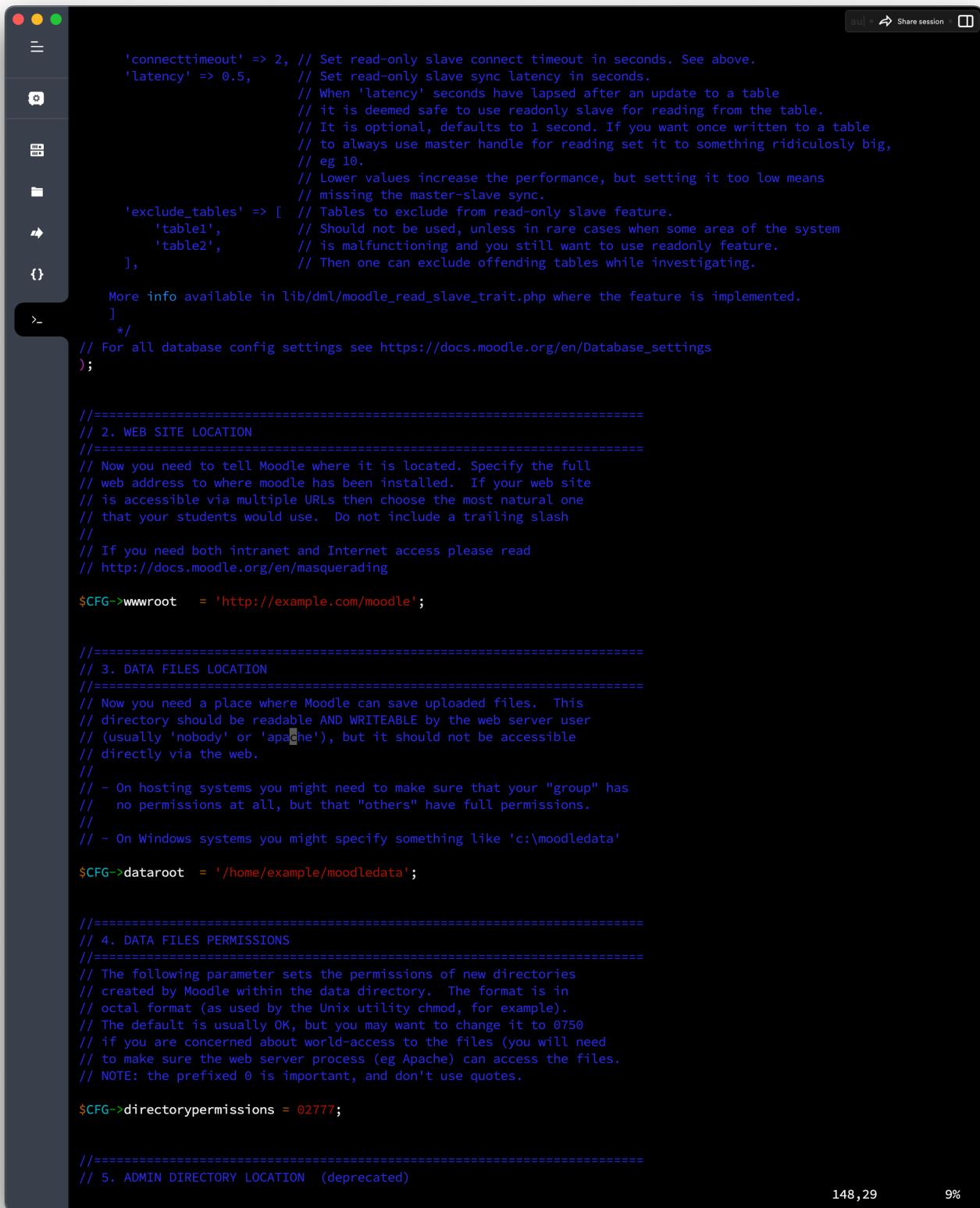
```
ubuntu@ip-172-31-90-75:/var/www/html/moodle$ cd /var/www/html/moodle
ubuntu@ip-172-31-90-75:/var/www/html/moodle$ ls
CONTRIBUTING.txt          favourites
COPYING.txt                file.php
Gruntfile.js               files
INSTALL.txt                filter
PULL_REQUEST_TEMPLATE.txt  grade
README.txt                 group
TRADEMARK.txt              h5p
admin                      help.php
analytics                  help_ajax.php
auth                       index.php
hp                          install
availability               install.php
backup                     iplookup
badges                     lang
behat.yml.dist              lib
blocks                     local
blog                       login
brokenfile.php             pluginfile.php
course                     portfolio
customfield                privacy
dataformat                 question
draftfile.php              pix
editmode.php               plagiarism
enrol                     pluginfile.php
error                      portfoli
install                    private
install.php                question
iplookup                   user
lang                      userpix
lib                       version.php
local                     webservices
login                     webser
npm-shrinkwrap.json       webser
package.json               webservices
payment                   webservices
phpcs.xml.dist             webservices
phpunit.xml.dist           webservices
pix
plagiarism
pluginfile.php
portfolio
privacy
question
user
userpix
version.php
webservices
ubuntu@ip-172-31-90-75:/var/www/html/moodle$ sudo cp config-dist.php config.php
ubuntu@ip-172-31-90-75:/var/www/html/moodle$ sudo vim config.php
ubuntu@ip-172-31-90-75:/var/www/html/moodle$ sudo service apache2 restart
ubuntu@ip-172-31-90-75:/var/www/html/moodle$
```

```
//
// This program is distributed in the hope that it will be useful,
// but WITHOUT ANY WARRANTY; without even the implied warranty of
// MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
// GNU General Public License for more details:
//
//      http://www.gnu.org/copyleft/gpl.html
//
///////////////////////////////////////////////////
unset($CFG); // Ignore this line
global $CFG; // This is necessary here for PHPUnit execution
$CFG = new stdClass();

//=====
// 1. DATABASE SETUP
//=====

// First, you need to configure the database where all Moodle data
// will be stored. This database must already have been created
// and a username/password created to access it.

$CFG->dbtype    = 'mysql';      // 'pgsql', 'mariadb', 'mysqli', 'auroramysql', 'sqlsrv' or 'oci'
$CFG->dblibrary = 'native';     // 'native' only at the moment
$CFG->dbhost    = 'localhost';   // eg 'localhost' or 'db.isp.com' or IP
$CFG->dbname    = 'moodle';     // database name, eg moodle
$CFG->dbuser    = 'moodledude'; // your database username
$CFG->dbpass    = 'passwordformoodledude'; // your database password
$CFG->prefix    = 'mdl_';       // prefix to use for all table names
$CFG->dboptions = array(
    'dbpersist' => false,        // should persistent database connections be
                                  // used? set to 'false' for the most stable
                                  // setting, 'true' can improve performance
)
46,41
1%
```



A screenshot of a Mac OS X terminal window titled "Share session". The window contains a large amount of PHP code for configuring Moodle. The code is organized into sections separated by triple slashes (//). It includes settings for database configuration, web site location, data files location, data files permissions, and admin directory location. The code uses color-coded syntax highlighting for variables (\$CFG), strings ('http://example.com/moodle'), and numbers (02777).

```
'connecttimeout' => 2, // Set read-only slave connect timeout in seconds. See above.  
'latency' => 0.5, // Set read-only slave sync latency in seconds.  
// When 'latency' seconds have lapsed after an update to a table  
// it is deemed safe to use readonly slave for reading from the table.  
// It is optional, defaults to 1 second. If you want once written to a table  
// to always use master handle for reading set it to something ridiculously big,  
// eg 10.  
// Lower values increase the performance, but setting it too low means  
// missing the master-slave sync.  
'exclude_tables' => [ // Tables to exclude from read-only slave feature.  
    'table1', // Should not be used, unless in rare cases when some area of the system  
    'table2', // is malfunctioning and you still want to use readonly feature.  
, // Then one can exclude offending tables while investigating.  
  
    More info available in lib/dml/moodle_read_slave_trait.php where the feature is implemented.  
]  
*/  
// For all database config settings see https://docs.moodle.org/en/Database_settings  
);  
  
=====  
// 2. WEB SITE LOCATION  
=====  
// Now you need to tell Moodle where it is located. Specify the full  
// web address to where moodle has been installed. If your web site  
// is accessible via multiple URLs then choose the most natural one  
// that your students would use. Do not include a trailing slash  
//  
// If you need both intranet and Internet access please read  
// http://docs.moodle.org/en/masquerading  
  
$CFG->wwwroot = 'http://example.com/moodle';  
  
=====  
// 3. DATA FILES LOCATION  
=====  
// Now you need a place where Moodle can save uploaded files. This  
// directory should be readable AND WRITEABLE by the web server user  
// (usually 'nobody' or 'apache'), but it should not be accessible  
// directly via the web.  
//  
// - On hosting systems you might need to make sure that your "group" has  
// no permissions at all, but that "others" have full permissions.  
//  
// - On Windows systems you might specify something like 'c:\moodledata'  
  
$CFG->dataroot = '/home/example/moodledata';  
  
=====  
// 4. DATA FILES PERMISSIONS  
=====  
// The following parameter sets the permissions of new directories  
// created by Moodle within the data directory. The format is in  
// octal format (as used by the Unix utility chmod, for example).  
// The default is usually OK, but you may want to change it to 0750  
// if you are concerned about world-access to the files (you will need  
// to make sure the web server process (eg Apache) can access the files.  
// NOTE: the prefixed 0 is important, and don't use quotes.  
  
$CFG->directorypermissions = 02777;  
  
=====  
// 5. ADMIN DIRECTORY LOCATION (deprecated)
```

```
au Share session ⌂

// When 'latency' seconds have lapsed after an update to a table
// it is deemed safe to use readonly slave for reading from the table.
// It is optional, defaults to 1 second. If you want once written to a table
// to always use master handle for reading set it to something ridiculous big,
// eg 10.
// Lower values increase the performance, but setting it too low means
// missing the master-slave sync.
'exclude_tables' => [
    'table1',
    'table2',
],
] More info available in lib/dml/moodle_read_slave_trait.php where the feature is implemented.

// For all database config settings see https://docs.moodle.org/en/Database_settings
);

//=====================================================================
// 2. WEB SITE LOCATION
//=====================================================================
// Now you need to tell Moodle where it is located. Specify the full
// web address to where moodle has been installed. If your web site
// is accessible via multiple URLs then choose the most natural one
// that your students would use. Do not include a trailing slash
//
// If you need both intranet and Internet access please read
// http://docs.moodle.org/en/masquerading

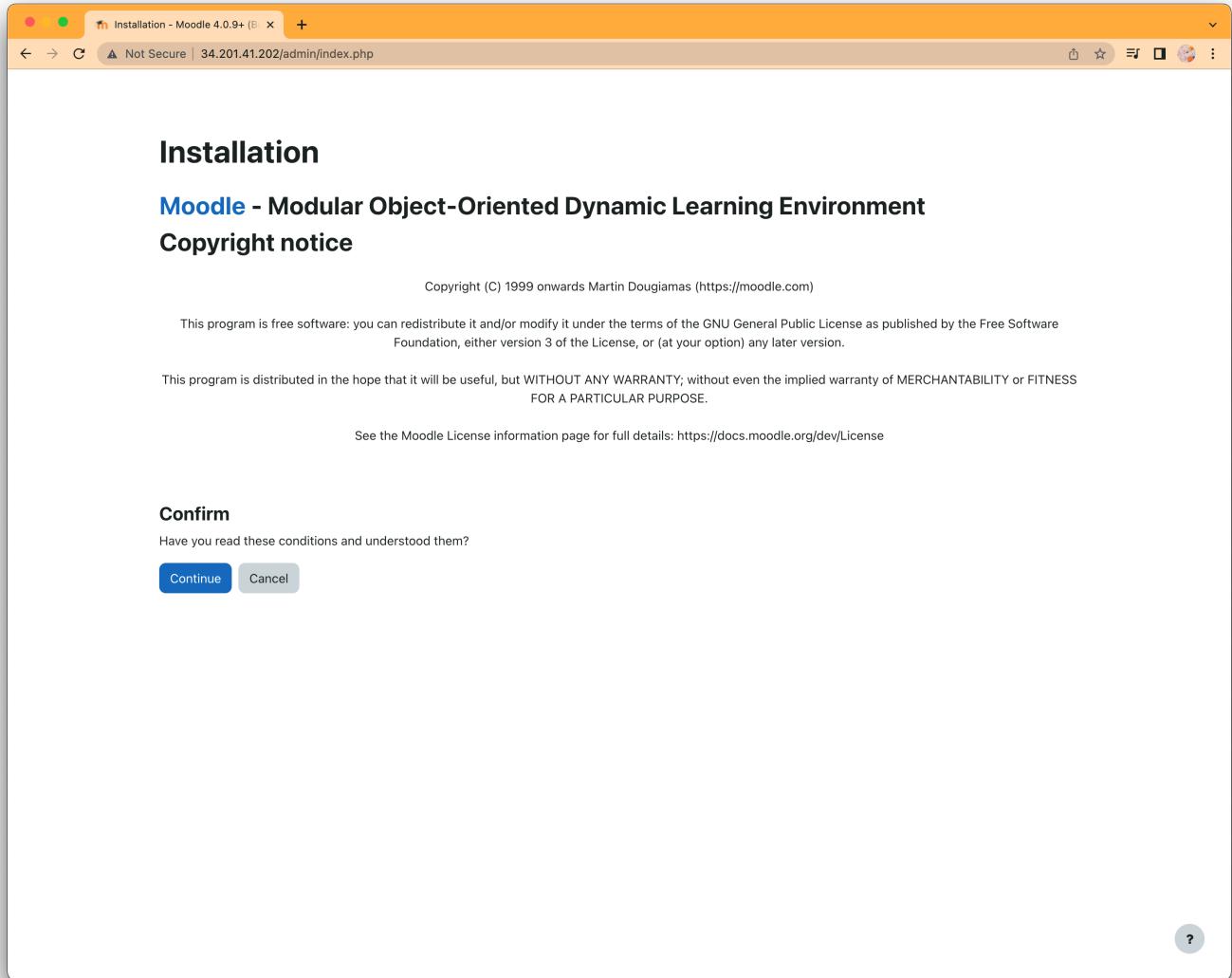
$CFG->wwwroot = 'http://34.201.41.202';

//=====================================================================
// 3. DATA FILES LOCATION
//=====================================================================
// Now you need a place where Moodle can save uploaded files. This
// directory should be readable AND WRITEABLE by the web server user
// (usually 'nobody' or 'apache'), but it should not be accessible
// directly via the web.
//
// - On hosting systems you might need to make sure that your "group" has
//   no permissions at all, but that "others" have full permissions.
//
// - On Windows systems you might specify something like 'c:\moodledata'
$CFG->dataroot = '/var/moodledata';

//=====================================================================
// 4. DATA FILES PERMISSIONS
//=====================================================================
// The following parameter sets the permissions of new directories
// created by Moodle within the data directory. The format is in
// octal format (as used by the Unix utility chmod, for example).
// The default is usually OK, but you may want to change it to 0750
// if you are concerned about world-access to the files (you will need
// to make sure the web server process (eg Apache) can access the files.
// NOTE: the prefixed 0 is important, and don't use quotes.

$CFG->directorypermissions = 02777;

//=====================================================================
// 5. ADMIN DIRECTORY LOCATION (deprecated)
//=====================================================================
// Please note: Support from this feature has been deprecated and it will be
// removed after Moodle 4.2.
```



## Environment Checks

This will indicate if any elements required to run moodle haven't been installed.

Installation

Not Secure | 34.201.41.202/admin/index.php?cache=0&lang=en&agreelicense=1

|                            |  |    |
|----------------------------|--|----|
| php                        | version 7.3.0 is required and you are running 7.4.3.4.2.19 | OK |
| pcreunicode                | should be installed and enabled for best results           | OK |
| php_extension iconv        | must be installed and enabled                              | OK |
| php_extension mbstring     | must be installed and enabled                              | OK |
| php_extension curl         | must be installed and enabled                              | OK |
| php_extension openssl      | must be installed and enabled                              | OK |
| php_extension tokenizer    | should be installed and enabled for best results           | OK |
| php_extension xmlrpc       | should be installed and enabled for best results           | OK |
| php_extension soap         | should be installed and enabled for best results           | OK |
| php_extension ctype        | must be installed and enabled                              | OK |
| php_extension zip          | must be installed and enabled                              | OK |
| php_extension zlib         | must be installed and enabled                              | OK |
| php_extension gd           | must be installed and enabled                              | OK |
| php_extension simplexml    | must be installed and enabled                              | OK |
| php_extension spl          | must be installed and enabled                              | OK |
| php_extension pcre         | must be installed and enabled                              | OK |
| php_extension dom          | must be installed and enabled                              | OK |
| php_extension xml          | must be installed and enabled                              | OK |
| php_extension xmlreader    | must be installed and enabled                              | OK |
| php_extension intl         | must be installed and enabled                              | OK |
| php_extension json         | must be installed and enabled                              | OK |
| php_extension hash         | must be installed and enabled                              | OK |
| php_extension fileinfo     | must be installed and enabled                              | OK |
| php_extension sodium       | should be installed and enabled for best results           | OK |
| php_extension exif         | should be installed and enabled for best results           | OK |
| php_setting memory_limit   | recommended setting detected                               | OK |
| php_setting file_uploads   | recommended setting detected                               | OK |
| php_setting opcache.enable | recommended setting detected                               | OK |

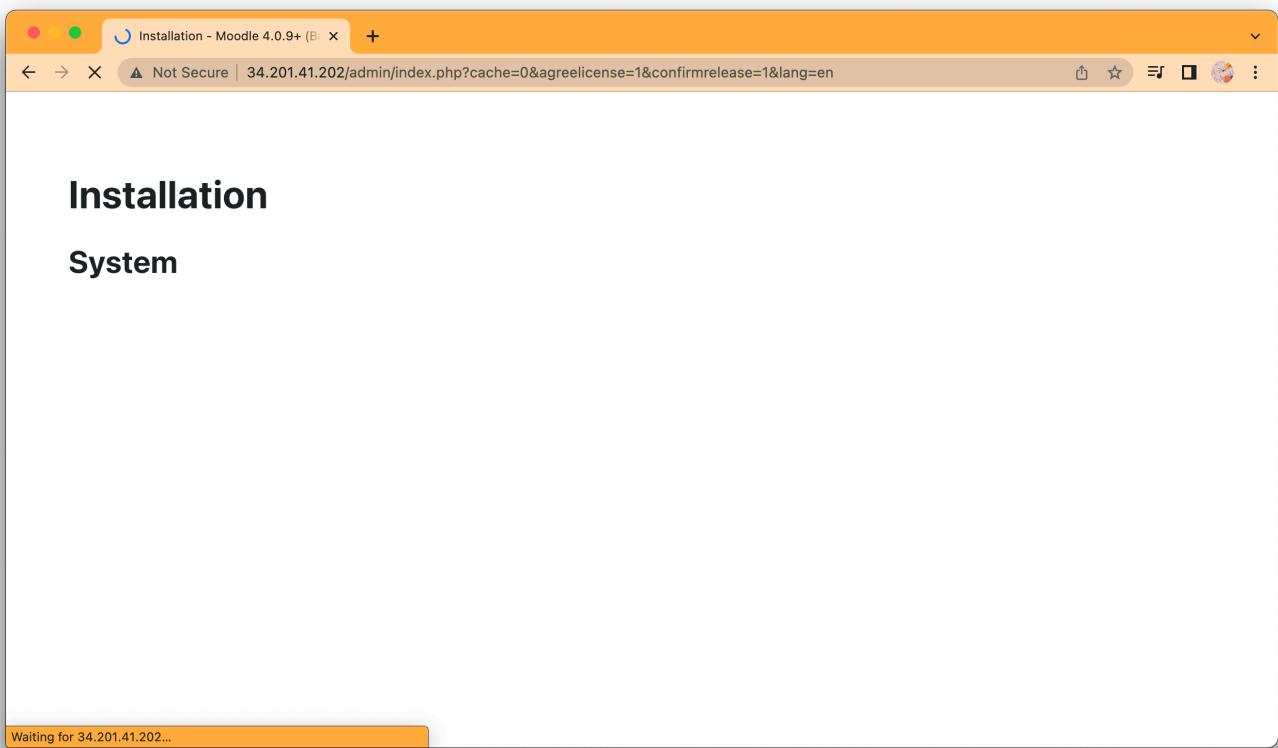
### Other checks

| Information    | Report  | Plugin | Status |
|----------------|---|--------|--------|
| site not https | <p><a href="#">if this test fails, it indicates a potential problem</a></p> <p>It has been detected that your site is not secured using HTTPS. It is strongly recommended to migrate your site to HTTPS for increased security and improved integration with other systems.</p> |        | Check  |
| max_input_vars | <p><a href="#">if this test fails, it indicates a potential problem</a></p> <p>PHP setting max_input_vars is recommended to be at least 5000.</p>   |        | Check  |

Your server environment meets all minimum requirements.

Continue

?



Installation - Moodle 4.0.9+ (B) +

Not Secure | 34.201.41.202/admin/index.php?cache=0&agreelicense=1&confirmrelease=1&lang=en

tinymce\_moodlemedia  
Success

tinymce\_moodlenolink  
Success

tinymce\_pdw  
Success

tinymce\_spellchecker  
Success

tinymce\_wrap  
Success

logstore\_database  
Success

logstore\_legacy  
Success

logstore\_standard  
Success

Continue ?

```
ubuntu@ip-172-31-90-75:/var/www/html/moodle$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.33-Ubuntu0.20.04.2 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use moodle;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_moodle |
+-----+
| mdl_adminpresets
| mdl_adminpresets_app
| mdl_adminpresets_app_it
| mdl_adminpresets_app_it_a
| mdl_adminpresets_app_plug
| mdl_adminpresets_it
| mdl_adminpresets_it_a
| mdl_adminpresets_plug
| mdl_analytics_indicator_calc
| mdl_analytics_models
| mdl_analytics_models_log
| mdl_analytics_predict_samples
| mdl_analytics_prediction_actions
| mdl_analytics_predictions
| mdl_analytics_train_samples
| mdl_analytics_used_analysables
| mdl_analytics_used_files
| mdl_assign
| mdl_assign_grades
| mdl_assign_overrides
| mdl_assign_plugin_config
| mdl_assign_submission
| mdl_assign_user_flags
| mdl_assign_user_mapping
| mdl_assignfeedback_comments
| mdl_assignfeedback_editpdf_annot
| mdl_assignfeedback_editpdf_cmnt
| mdl_assignfeedback_editpdf_queue
| mdl_assignfeedback_editpdf_quick
| mdl_assignfeedback_editpdf_rot
| mdl_assignfeedback_file
| mdl_assignment
| mdl_assignment_submissions
| mdl_assignment_upgrade
| mdl_assignment_file
| mdl_assignsubmission_onlinetext
| mdl_auth_lti_linked_login
| mdl_auth_oauth2_linked_login
| mdl_backup_controllers
| mdl_backup_courses
```

Installation x

Not Secure | 34.201.41.202/user/editadvanced.php?id=2

## Installation

On this page you should configure your main administrator account which will have complete control over the site. Make sure you give it a secure username and password as well as a valid email address. You can create more admin accounts later on.

[Expand all](#)

**General**

Username  ?

Choose an authentication method  Manual accounts ?

The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 special character(s) such as as \*, -, or #

New password  ? ? ?

Force password change ?

First name  ?

Last name  ?

Email address  ?

Email visibility  ?

City/town

Select a country  ?

Timezone  ?

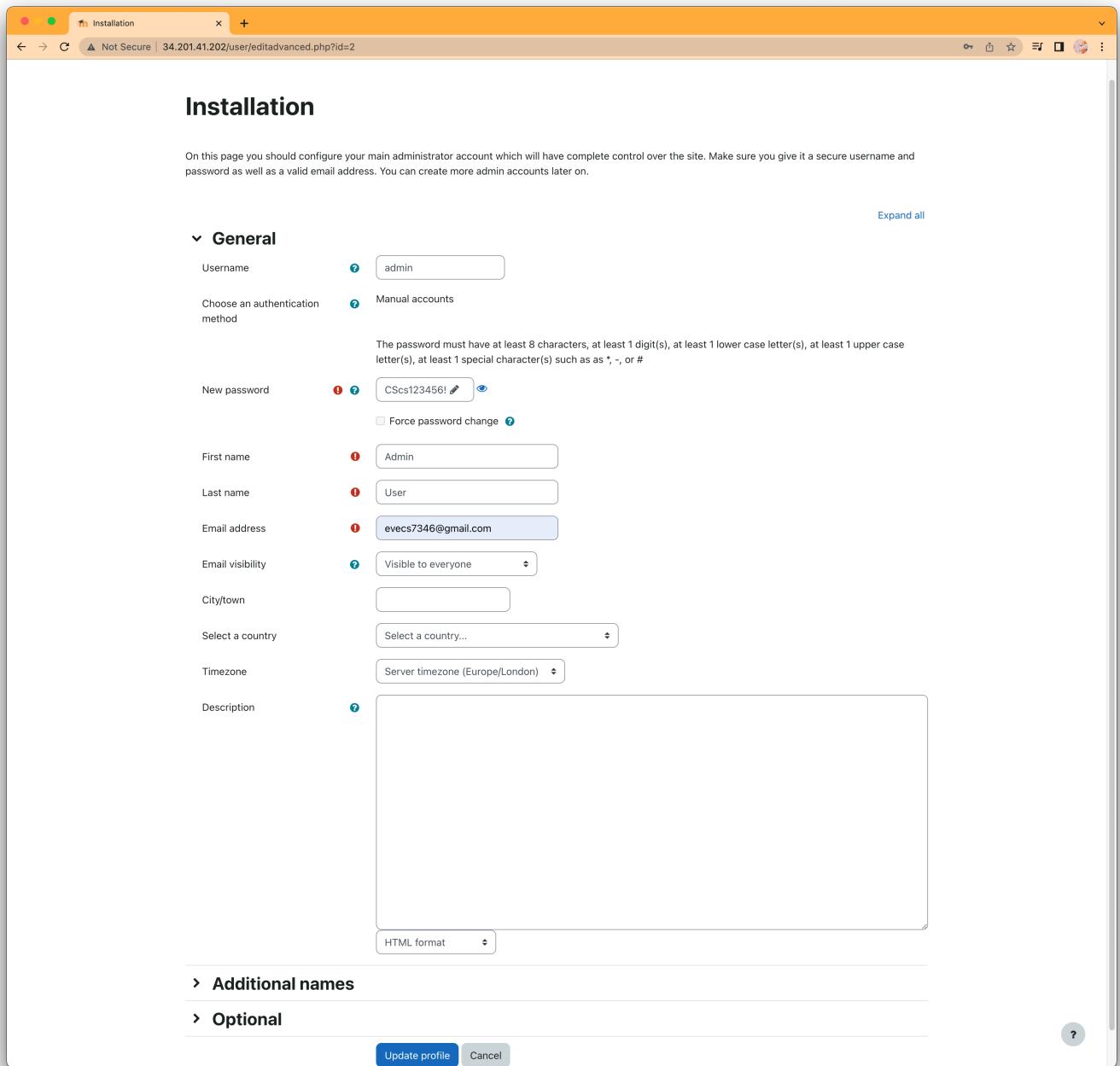
Description  ?

HTML format ?

**Additional names**

**Optional**

[Update profile](#) [Cancel](#) ?



username: admin

password:CScs123456!

Installation

Not Secure | 34.201.41.202/admin/upgradesettings.php?return=site

## Installation

### New settings - Site home settings

Full site name  
fullname

Check Your Work Group 6

Short name for site (eg single word)  
shortname

group6

Site home summary  
summary

This summary can be displayed on the site home using the course/site summary block.

### New settings - Location settings

Default timezone  
timezone

America/Chicago Default: Europe/London

This is the default timezone for displaying dates - each user can override this setting in their profile. Cron tasks and other server settings are specified in this timezone. You should change the setting if it shows as "Invalid timezone".

### New settings - Manage authentication

Self registration  
registerauth

Disable Default: Disable

If an authentication plugin, such as email-based self-registration, is selected, then it enables potential users to register themselves and create accounts. This results in the possibility of spammers creating accounts in order to use forum posts, blog entries etc. for spam. To avoid this risk, self-registration should be disabled or limited by *Allowed email domains* setting.

### New settings - Support contact

Support email  
supportemail

evecs7346@gmail.com

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.

### New settings - Outgoing mail configuration

No-reply address  
noreplyaddress

evecs7346@gmail.com Default: noreply@34.201.41.202

Emails are sometimes sent out on behalf of a user (eg forum posts). The email address you specify here will be used as the "From" address in those cases when the recipients should not be able to reply directly to the user (eg when a user chooses to keep their address private). This setting will also be used as the envelope sender when sending email.

Save changes

group6 Administration: Register

Not Secure | 34.201.41.202/admin/registration/index.php?returnurl=%2Findex.php

group6 Home Dashboard My courses Site administration Edit mode

## Check Your Work Group 6

General Users Courses Grades Plugins Appearance Server Reports Development

### Complete your site registration

We'd love to stay in touch and provide you with important things for your Moodle site! By registering:

- You can subscribe to receive notifications of new Moodle releases, security alerts and other important news.
- You can access and activate mobile push notifications from your Moodle site through our free Moodle app.
- You are contributing to our Moodle statistics of the worldwide community, which help us improve Moodle and our community sites.
- If you wish, your site can be included in the list of registered Moodle sites in your country.

About the Moodle app Moodle statistics Other sites in my country

[Collapse all](#)

#### Registration information

Name: Check Your Work Group

Site listing: Do not list my site

Description:

Language: English

Country: United States

Admin email address: evecs7346@gmail.com

Notifications of new Moodle releases, security alerts and other important news:  Yes, notify me of new Moodle releases, security alerts and other important news

Moodle newsletter:  Yes, I would like to receive the Moodle newsletter

Privacy notice and data processing agreement:  I agree to the Privacy notice and data processing agreement

#### More information

Site URL: http://34.201.41.202

More information:  
The following information will be sent to Moodle each time your site registration is updated (by default weekly, when the 'Site registration' scheduled task is run). The information contributes to overall statistics only and will not be made public on any site listing. In addition, your Moodle release version is recorded by the weekly automated site link check.

- Moodle release (4.0)
- Number of courses (0)
- Number of users (2)
- Number of recently active users (0)
- Number of role assignments (0)
- Number of posts (0)
- Number of questions (0)
- Number of resources (0)
- Number of badges (0)
- Number of issued badges (0)

group6: Administration: Registration

Not Secure | 34.201.41.202/admin/registration/confirmregistration.php?newtoken=d47bd88144c8b7a3cb5a933423ebc63d&url=https%3A%2F%2Fgroup6.41.202%2F

group6 Home Dashboard My courses Site administration AU Edit mode

## Check Your Work Group 6

General Users Courses Grades Plugins Appearance Server Reports Development

**Site registration confirmed**

Thank you for registering your site. Registration information will be kept up to date by the 'Site registration' scheduled task.

Continue

?

A screenshot of a web browser displaying a Moodle site administration page. The title bar shows 'group6: Administration: Registration'. The address bar indicates a 'Not Secure' connection to '34.201.41.202/admin/registration/confirmregistration.php?newtoken=d47bd88144c8b7a3cb5a933423ebc63d&url=https%3A%2F%2Fgroup6.41.202%2F'. The main navigation menu includes 'Home', 'Dashboard', 'My courses', 'Site administration', 'AU', and 'Edit mode'. Below the menu, a sub-navigation bar has 'General' selected. A prominent message box displays 'Site registration confirmed' and a message: 'Thank you for registering your site. Registration information will be kept up to date by the 'Site registration' scheduled task.' A 'Continue' button is inside this message box. At the bottom right of the page is a help icon with a question mark.

The screenshot shows a Moodle dashboard with the following elements:

- Header:** Dashboard, Not Secure | 34.201.41.202/my/
- Navigation:** group6, Home, Dashboard, My courses, Site administration
- Timeline:** A section titled "Timeline" with buttons for "Next 7 days" and "Sort by dates", and a search bar for "Search by activity type or name". It displays a message: "No in-progress courses" with a list icon.
- Calendar:** A section titled "Calendar" showing the month of July 2023. It includes navigation arrows for June and August, a dropdown menu for "All courses", and a "New event" button. The calendar grid shows days from Monday to Sunday, with specific dates like 1, 2, 3, 4, 5, 6, 7, 8, and 9 marked.

username: admin

password: CScs123456!

## Student Self Register

group6 Administration: Search Not Secure | 34.201.41.202/admin/search.php#linkmodules

group6 Home Dashboard My courses Site administration AU Edit mode

## Site administration

Search

General Users Courses Grades Plugins Appearance Server Reports Development

**Plugins**

Install plugins  
Plugins overview

**Activity modules**

Manage activities  
Common activity settings  
Assignment  
Assignment settings  
Submission plugins  
Manage assignment submission plugins  
File submissions  
Online text submissions  
Feedback plugins  
Manage assignment feedback plugins  
Feedback comments  
Annotate PDF  
File feedback  
Offline grading worksheet  
Book  
Chat  
Database  
External tool  
Manage tools  
Feedback  
File

?

34.201.41.202/admin/search.php#linkmodules

group6 Administration: Search Not Secure | 34.201.41.202/admin/search.php#linkmodules

group6 Home Dashboard My courses Site administration AU Edit mode

## Admin tools

Manage admin tools  
Accessibility  
Brickfield registration  
Accessibility toolkit settings  
Reports  
Recycle bin

**Antivirus plugins**

Manage antivirus plugins

**Authentication**

Manage authentication  
Email-based self-registration  
Manual accounts

**Availability restrictions**

Manage restrictions

**Blocks**

Manage blocks  
Accessibility review  
Activity results  
Course overview  
Courses  
Online users  
Recently accessed courses  
Section links  
Starred courses  
Text

?

34.201.41.202/admin/search.php#linkmodules Configuration

group6: Administration: Plugins

Not Secure | 34.201.41.202/admin/settings.php?section=manageauths

group6 Home Dashboard My courses Site administration AU Edit mode

## Manage authentication

Available authentication plugins

| Name                          | Users | Enable | Up/Down | Settings | Test settings | Uninstall |
|-------------------------------|-------|--------|---------|----------|---------------|-----------|
| Manual accounts               | 2     |        |         | Settings |               |           |
| No login                      | 0     |        |         |          |               |           |
| Email-based self-registration | 0     | eye    |         | Settings |               | Uninstall |
| CAS server (SSO)              | 0     | key    |         | Settings | Test settings | Uninstall |
| External database             | 0     | key    |         | Settings | Test settings | Uninstall |
| LDAP server                   | 0     | key    |         | Settings | Test settings |           |
| LTI                           | 0     | key    |         |          |               |           |
| MNet authentication           | 0     | key    |         | Settings | Test settings |           |
| No authentication             | 0     | key    |         | Settings |               | Uninstall |
| OAuth 2                       | 0     | key    |         | Settings |               | Uninstall |
| Shibboleth                    | 0     | key    |         | Settings | Test settings | Uninstall |
| Web services authentication   | 0     | key    |         |          |               |           |

Please choose the authentication plugins you wish to use and arrange them in order of failthrough.  
Changes in table above are saved automatically.

Common settings

Self registration registerauth Email-based self-registration Default: Disable

If an authentication plugin, such as email-based self-registration, is selected, then it enables potential users to register themselves and create accounts. This results in the possibility of spammers creating accounts in order to use forum posts, blog entries etc. for

group6: Administration: Plugins

Not Secure | 34.201.41.202/admin/settings.php?section=manageauths

group6 Home Dashboard My courses Site administration AU Edit mode

Authentication / Manage authentication

## Check Your Work Group 6

General Users Courses Grades Plugins Appearance Server Reports Development

Changes saved

### Manage authentication

Available authentication plugins

| Name                          | Users | Enable | Up/Down | Settings | Test settings | Uninstall |
|-------------------------------|-------|--------|---------|----------|---------------|-----------|
| Manual accounts               | 2     |        |         | Settings |               |           |
| No login                      | 0     |        |         |          |               |           |
| Email-based self-registration | 0     | eye    |         | Settings |               | Uninstall |
| CAS server (SSO)              | 0     | key    |         | Settings | Test settings | Uninstall |
| External database             | 0     | key    |         | Settings | Test settings | Uninstall |
| LDAP server                   | 0     | key    |         | Settings | Test settings |           |
| LTI                           | 0     | key    |         |          |               |           |
| MNet authentication           | 0     | key    |         | Settings | Test settings |           |
| No authentication             | 0     | key    |         | Settings |               | Uninstall |
| OAuth 2                       | 0     | key    |         | Settings |               | Uninstall |
| Shibboleth                    | 0     | key    |         | Settings | Test settings | Uninstall |

New account

Username !

ⓘ  
Only lowercase letters allowed

The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 special character(s) such as \*, -, or #.

Password !

ⓘ  
The password must have at least 1 special character(s) such as \*, -, or #.

Email address !

Email (again) !

First name !

Last name !

City/town

Country

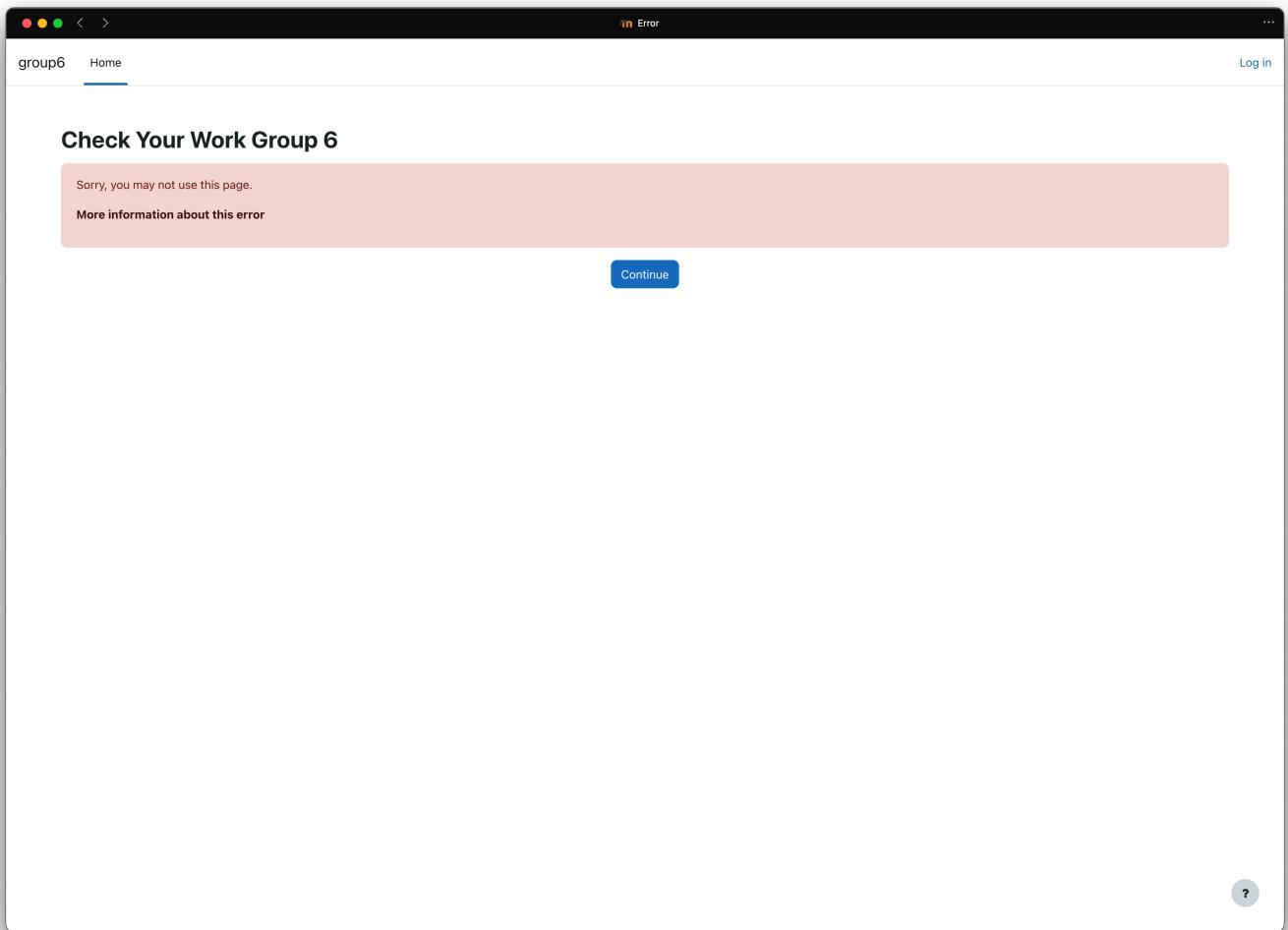
ⓘ

Create my new account Cancel

! Required

Username:student1

Password:Student1!



Let admin to comfirm

The screenshot shows the Moodle Administration: Users page. At the top, there are navigation links: Home, Dashboard, My courses, Site administration, and a search bar. A 'Edit mode' toggle switch is also present. Below the header, the page title is 'Check Your Work Group 6'. A 'New filter' button is visible. The main content area displays a table of users:

| First name / Last name | Email address        | City/town | Country | Last access | Edit   |
|------------------------|----------------------|-----------|---------|-------------|--|
| Admin User             | evecs7346@gmail.com  |           |         | 9 secs      | <a href="#">Edit</a>   |
| Eve Eve                | byleve2022@gmail.com |           |         | Never       | <a href="#">Edit</a> <a href="#">View</a> <a href="#">Delete</a> |

A 'Add a new user' button is located at the bottom left of the user list.

Let admin to create a new user.

The screenshot shows a Moodle administration interface for 'group6: Administration: Users'. The browser title is 'group6: Administration: Users' and the URL is 'Not Secure | 34.201.41.202/user/editadvanced.php?id=-1'. The page header includes 'group6' and navigation links for 'Home', 'Dashboard', 'My courses', and 'Site administration'. A 'Edit mode' toggle switch is turned on.

The main content area is titled 'Check Your Work Group 6' and shows the 'General' tab selected under 'Accounts / Add a new user'. A search bar is at the top right. Below it is a navigation menu with tabs: General, Users, Courses, Grades, Plugins, Appearance, Server, Reports, and More.

The 'General' section contains the following fields:

- Username:** student2
- Choose an authentication method:** Manual accounts
- Suspended account:**
- Generate password and notify user:**
- New password:** Student2!
- Force password change:**
- First name:** Jo !
- Last name:** Jo !
- Email address:** Jo@example.com ! (This field is highlighted with a blue border)
- Email visibility:** Visible to course participants
- MoodleNet profile ID:**

A 'Expand all' link is located in the top right corner of the form area.

Username: student2

password:Student2!

Username: professor1

password: Professor1!

The screenshot shows the Moodle 'Participants' page for a course titled 'CSCheckYourWork'. The left sidebar contains a navigation tree with categories like General, Topic 1, Topic 2, Topic 3, and Topic 4. The main content area displays a list of 'Enrolled users' with the following details:

| First name / Last name | Email address          | Roles   | Groups    | Last access to course | Status |
|------------------------|------------------------|---------|-----------|-----------------------|--------|
| EE Eve Eve             | byleve2022@gmail.com   | Student | No groups | Never                 | Active |
| JJ Jo Jo               | Jo@example.com         | Student | No groups | Never                 | Active |
| pp pro pro             | professor1@example.com | Teacher | No groups | Never                 | Active |
| AU Admin User          | evecs7346@gmail.com    | Manager | No groups | 1 min 5 secs          | Active |

Below the table, there is a dropdown menu labeled 'With selected users...' and a blue button labeled 'Enrol users'.

## Turnitin

[https://moodle.org/plugins/mod\\_turnitintooltwo/versions](https://moodle.org/plugins/mod_turnitintooltwo/versions)

Moodle plugins directory: Turnitin

moodle.org/plugins/mod\_turnitintooltwo/versions

**moodle**

Forums Documentation Downloads Demo Tracker Development Translation

English (United States) (en\_us) You are currently using guest access Log in

Plugins / Activities / Turnitin's Moodle Direct v2 / Versions

## Turnitin's Moodle Direct v2

Activities :: mod\_turnitintooltwo

Maintained by Bryan Holladay, Paul Dawson, Isaac Xiong

Turnitin's Moodle Direct v2 integration activity module is a standalone Moodle module with the aim of representing the full suite of Turnitin's features within the standard Moodle workflow. The module is an upgrade on the previous Turnitin plugin and is developed and maintained by Turnitin.

Description Versions Stats Translations

### Current version

3.9+ (2023032701)

Moodle 3.9, 3.11, 4.0, 4.1  
Released: Tuesday, March 28, 2023, 5:34 AM  
code prechecks 32138 | 15893

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Release notes

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mod\_turnitintooltwo.zip

group6: Administration: Plugins

Not Secure | 34.201.41.202/admin/tool/installaddon/index.php

group6 Home Dashboard My courses Site administration Edit mode

## Check Your Work Group 6

General Users Courses Grades Plugins Appearance Server Reports Development

### Plugin installer

Install plugins from the Moodle plugins directory ?

ZIP package ! ? Choose a file...

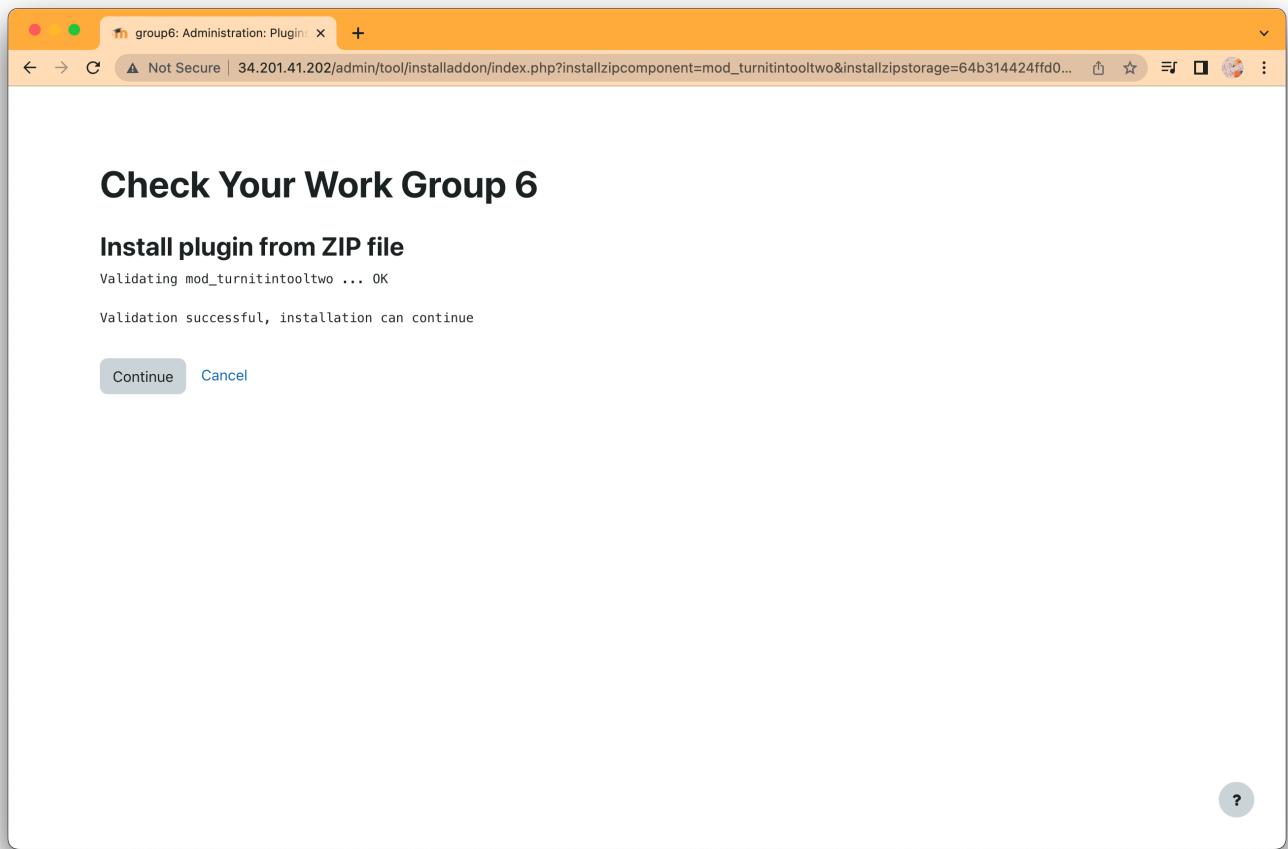
Accepted file types:  
Archive (ZIP) .zip

Show more... ?

Install plugin from the ZIP file

! Required

The screenshot shows the Moodle 'Plugin installer' page under the 'Appearance' tab. It features a large central area for uploading a ZIP file, with a 'Choose a file...' button and a drag-and-drop area. Below this is a note about accepted file types: 'Archive (ZIP) .zip'. At the bottom, there's a prominent blue 'Install plugin from the ZIP file' button. A 'Required' field indicator is visible near the file upload area.



Current release information | Not Secure | 34.201.41.202/admin/index.php?cache=0&confirmplugincheck=0

|                            |  | Plugin | Status |
|----------------------------|--|--------|--------|
| php                        | version 7.3.0 is required and you are running 7.4.3.4.2.19 | OK     | OK     |
| pcreunicode                | should be installed and enabled for best results           | OK     | OK     |
| php_extension iconv        | must be installed and enabled                              | OK     | OK     |
| php_extension mbstring     | must be installed and enabled                              | OK     | OK     |
| php_extension curl         | must be installed and enabled                              | OK     | OK     |
| php_extension openssl      | must be installed and enabled                              | OK     | OK     |
| php_extension tokenizer    | should be installed and enabled for best results           | OK     | OK     |
| php_extension xmlrpc       | should be installed and enabled for best results           | OK     | OK     |
| php_extension soap         | should be installed and enabled for best results           | OK     | OK     |
| php_extension ctype        | must be installed and enabled                              | OK     | OK     |
| php_extension zip          | must be installed and enabled                              | OK     | OK     |
| php_extension zlib         | must be installed and enabled                              | OK     | OK     |
| php_extension gd           | must be installed and enabled                              | OK     | OK     |
| php_extension simplexml    | must be installed and enabled                              | OK     | OK     |
| php_extension spl          | must be installed and enabled                              | OK     | OK     |
| php_extension pcre         | must be installed and enabled                              | OK     | OK     |
| php_extension dom          | must be installed and enabled                              | OK     | OK     |
| php_extension xml          | must be installed and enabled                              | OK     | OK     |
| php_extension xmlreader    | must be installed and enabled                              | OK     | OK     |
| php_extension intl         | must be installed and enabled                              | OK     | OK     |
| php_extension json         | must be installed and enabled                              | OK     | OK     |
| php_extension hash         | must be installed and enabled                              | OK     | OK     |
| php_extension fileinfo     | must be installed and enabled                              | OK     | OK     |
| php_extension sodium       | should be installed and enabled for best results           | OK     | OK     |
| php_extension exif         | should be installed and enabled for best results           | OK     | OK     |
| php_setting memory_limit   | recommended setting detected                               | OK     | OK     |
| php_setting file_uploads   | recommended setting detected                               | OK     | OK     |
| php_setting opcache.enable | recommended setting detected                               | OK     | OK     |

## Other checks

| Information    | Report  | Plugin | Status                |
|----------------|---|--------|-----------------------|
| site not https | <p><a href="#">if this test fails, it indicates a potential problem</a></p> <p>It has been detected that your site is not secured using HTTPS. It is strongly recommended to migrate your site to HTTPS for increased security and improved integration with other systems.</p> |        | <a href="#">Check</a> |
| max_input_vars | <p><a href="#">if this test fails, it indicates a potential problem</a></p> <p>PHP setting max_input_vars is recommended to be at least 5000.</p>   |        | <a href="#">Check</a> |

Your server environment meets all minimum requirements.

[Continue](#)

Plugins check

Not Secure | 34.201.41.202/admin/index.php?cache=0&confirmrelease=1&confirmplugincheck=0&confirmupgrade=1

## Plugins check

This page displays plugins that may require your attention during the upgrade, such as new plugins to be installed, plugins to be upgraded, missing plugins etc. Additional plugins are displayed if there is an available update for them. It is recommended that you check whether there are more recent versions of plugins available and update their source code before continuing with this Moodle upgrade.

[Check for available updates](#)

### Plugins requiring attention

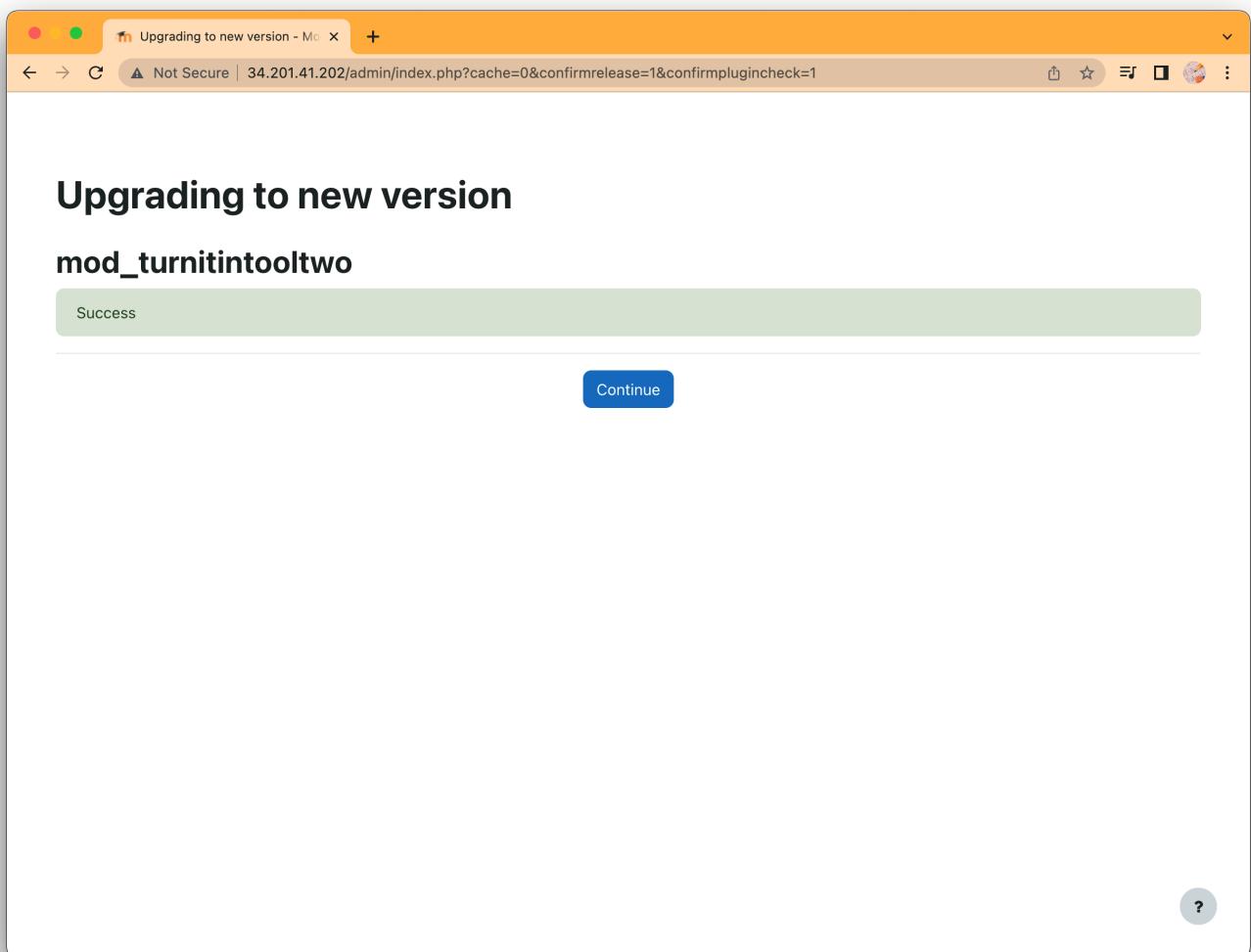
Cancel new installations (1) Plugins requiring attention 1 All plugins 428

| Plugin name / Directory                       | Current version | New version       | Requires                   | Source / Status                          |
|---|-----------------|-------------------|----------------------------|--|
| <b>Activity modules</b>                       |                 |                   |                            |  |
| Turnitin Assignment 2<br>/mod/turnitintooltwo | 2023032701      | Moodle 2016052300 | Additional To be installed | <a href="#">Cancel this installation</a> |

[Reload](#)

[Upgrade Moodle database now](#)

?



group6: Administration: New settings

Not Secure | 34.201.41.202/admin/upgradesettings.php?

## Check Your Work Group 6

The settings shown below were added during your last Moodle upgrade. Make any changes necessary to the defaults and then click the 'Save changes' button at the bottom of this page.

### New settings - Turnitin Assignment 2

Turnitin Account ID  
turnitintooltwo | accountid

[Required]  
Enter your Turnitin Primary Account ID

Turnitin Shared Key  
turnitintooltwo | secretkey

[Click to enter text](#)

[Required]  
Enter your Turnitin Shared Key  
(Set by your Turnitin Administrator)

Turnitin API URL  
turnitintooltwo | apiurl

<https://sandbox.turnitin.com>

[Required]  
Select a Turnitin API URL

Enable Diagnostic Mode  
turnitintooltwo | enablediagnostic

Off Default: Off

[Caution]  
Enable Diagnostic mode only to track down problems with the Turnitin API.

Enable Network Performance Logging  
turnitintooltwo | enableperformancelogs

No Default: No

If enabled, each request to the Turnitin server will be logged in {tempdir}/turnitintooltwo/logs

Use GradeMark  
turnitintooltwo | usegrademarkup

Yes Default: Yes

Choose whether to use GradeMark to grade submissions.  
(This is only available to those that have GradeMark configured for their account)

Enable Peermark Assignments  
turnitintooltwo | enablepeermark

Yes Default: Yes

Choose whether to allow the creation of Peermark Assignments  
(This is only available to those that have Peermark configured for their account)

Enable grammar feedback  
turnitintooltwo | usegrammar

No Default: No

Choose if submitted files can receive a grammar check.  
(Grammar feedback must also be enabled on your Turnitin account)

Use Anonymous Marking  
turnitintooltwo | useanon

No Default: No

Choose whether to allow Anonymous Marking when grading submissions.  
(This is only available to those that have Anonymous Marking configured for their account)

Translated Matching  
turnitintooltwo | transmatch

No Default: No

Determines whether Translated Matching will be available as a setting on the assignment set up screen.  
(Enable this option only if Translated Matching is enabled on your Turnitin account)

?

Screenshot of a Moodle course editing interface showing the "Add an activity or resource" modal.

The modal title is "Add an activity or resource". It has tabs for "All", "Activities", and "Resources", with "Activities" selected. The activities grid contains the following items:

| Activity Type         | Description |
|-----------------------|-------------|
| Assignment            |             |
| Book                  |             |
| Chat                  |             |
| Choice                |             |
| Database              |             |
| External tool         |             |
| Feedback              |             |
| File                  |             |
| Folder                |             |
| Forum                 |             |
| Glossary              |             |
| H5P                   |             |
| IMS content package   |             |
| Label                 |             |
| Lesson                |             |
| Page                  |             |
| Quiz                  |             |
| SCORM package         |             |
| Survey                |             |
| Turnitin Assignment 2 |             |
| URL                   |             |
| Wiki                  |             |
| Workshop              |             |

Below the grid is a button labeled "+ Add an activity or resource".

The background shows a course structure with categories like "General", "Topic 1", "Topic 2", "Topic 3", and "Topic 4". A topic named "Topic 2" is currently expanded.

if successful, it show be look like this.

### The Goliath of the Sea

The majestic blue whale, the goliath of the sea, certainly stands alone within the animal kingdom for its adaptations beyond its massive size. At 30 meters (98 ft) in length and 190 tons (210 short tons) or more in weight, it is the largest existing animal and the heaviest that has ever existed. Despite their incomparable mass, aggressive hunting in the 1900s by whalers seeking whale oil drove them to the brink of extinction. But there are other reasons for why they are now so endangered.



Blue-Whale *Balaenoptera Musculus*

The blue whale's common name derives from bluish-hue that covers the upper side of its body, while its Latin designation is *Balaenoptera musculus*. The blue whale belongs to the Mysticeti suborder of cetaceans, also known as baleen whales, which means they have fringed plates of fingernail-like material, called baleen, attached to their upper jaws. Blue whales feed almost exclusively on krill, though they also take small numbers of copepods. An adult blue whale can eat up to 40 million krill in a day.

These gargantuan beasts used to dominate all the oceans of the Earth up until the late nineteenth century, when the technology was developed to effectively hunt and harvest them. In 1864, the Norwegian Svend Foyn equipped a steamboat with harpoons specifically designed for catching large whales. This led to the killing of hundreds of thousands of whales up until 1966, when the International Whaling Commission banned the practice.

The blue whale certainly appears grand in size and beauty, but the sounds it produces and how it communicates are also sublime. Amazingly, their vocalizations can reach 155 and 188 decibels and have a frequency range of 10 to 40Hz. Though they typically do not "sing" in the same way that Humpback whales do, some subspecies have been observed producing songs that consist of up to four notes. Blue whale calls are still not fully understood, and scientists are currently working on determining their purposes. Among the hypotheses, researchers believe the calls could serve to determine one's geographic location, identify individuals, or locate prey.

In this regard, blue whales exhibit the capability to use echolocation, which is the same as active sonar using sounds made by the animal itself. The identifying of distance and location is done by measuring the time delay between the animal's own sound emission and any echoes that return from the environment. The relative strength of the sound received at each ear as well as the Page 1 of 1 delay between arrival at the two ears provide information about the horizontal angle from which

### AI Writing

How much of this submission has been generated by AI? ⓘ

75%

of qualifying text in this submission has been determined to be generated by AI.

Learn more



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[Show disclaimer](#)



## CodeCheck

[https://moodle.org/plugins/mod\\_vpl](https://moodle.org/plugins/mod_vpl)

A screenshot of a Moodle administration interface. The top navigation bar shows 'group6' and 'Site administration'. Below it, the 'Plugins' tab is selected. A sub-section titled 'Plugin installer' is shown. A button labeled 'Install plugins from ZIP file' is visible. A modal dialog box is open, displaying an 'Error' message: 'The uploaded file exceeds the upload\_max\_filesize directive in php.ini.' An 'OK' button is at the bottom of the dialog. The background shows a placeholder for a ZIP package and a note about accepted file types: 'Archive (ZIP) .zip'.

[https://docs.moodle.org/402/en/File\\_upload\\_size](https://docs.moodle.org/402/en/File_upload_size)

A screenshot of a code editor displaying a portion of a PHP configuration file (php.ini). The code is as follows:

```
;cgi.check_shebang_line=1
;;;;;;
; File Uploads ;
;;;;;;

; Whether to allow HTTP file uploads.
; http://php.net/file-uploads
file_uploads = On

; Temporary directory for HTTP uploaded files (will use system default if not
; specified).
; http://php.net/upload-tmp-dir
;upload_tmp_dir =

; Maximum allowed size for uploaded files.
; http://php.net/upload-max-filesize
upload_max_filesize = 2M

; Maximum number of files that can be uploaded via a single request
max_file_uploads = 20

;;;;;;
; Fopen wrappers ;
;;;;;;

; Whether to allow the treatment of URLs (like http:// or ftp://) as files.
; http://php.net/allow-url-fopen
allow_url_fopen = On

; Whether to allow include/require to open URLs (like http:// or ftp://) as files.
; http://php.net/allow-url-include
allow_url_include = Off

; Define the anonymous ftp password (your email address). PHP's default setting
```

The code editor has a dark theme and shows line numbers on the right side: 842,1 and 43%.

```
au| Share session □

;cgi.check_shebang_line=1
;
; File Uploads ;
;
; Whether to allow HTTP file uploads.
; http://php.net/file-uploads
file_uploads = On
;
; Temporary directory for HTTP uploaded files (will use system default if not
; specified).
; http://php.net/upload-tmp-dir
upload_tmp_dir =
;
; Maximum allowed size for uploaded files.
; http://php.net/upload-max-filesize
upload_max_filesize = 20M
;
; Maximum number of files that can be uploaded via a single request
max_file_uploads = 20
;
; Fopen wrappers ;
;
; Whether to allow the treatment of URLs (like http:// or ftp://) as files.
; http://php.net/allow-url-fopen
allow_url_fopen = On
;
; Whether to allow include/require to open URLs (like http:// or ftp://) as files.
; http://php.net/allow-url-include
allow_url_include = Off
;
; Define the anonymous ftp password (your email address). PHP's default setting
:wq!]
```

```
au| Share session □

dconf          iscsi        nanorc      rsyslog
g.conf          xdg          issue       netplan
debconf.conf   zsh_command_not_found network    screen
g.d            debian_version   issue.net
rc              kernel
default        kernel-img.conf networks
ty
deluser.conf
x
ubuntu@ip-172-31-90-75:/etc$ cd php/
ubuntu@ip-172-31-90-75:/etc/php$ ls
7.4
ubuntu@ip-172-31-90-75:/etc/php$ cd 7.4
ubuntu@ip-172-31-90-75:/etc/php/7.4$ ls
apache2  cli  mods-available
ubuntu@ip-172-31-90-75:/etc/php/7.4$ cd apache2/
ubuntu@ip-172-31-90-75:/etc/php/7.4/apache2$ ls
conf.d  php.ini
ubuntu@ip-172-31-90-75:/etc/php/7.4/apache2$ sudo vim php.ini
ubuntu@ip-172-31-90-75:/etc/php/7.4/apache2$ sudo service apache2 restart
ubuntu@ip-172-31-90-75:/etc/php/7.4/apache2$
```

group6 Administration: Plugins

Not Secure | checkyourworkgroup.online/admin/tool/installaddon/index.php

group6 Home Dashboard My courses Site administration Edit mode

## Check Your Work Group 6

General Users Courses Grades Plugins Appearance Server Reports Development

### Plugin installer

Install plugins from the Moodle plugins directory ?

ZIP package ⓘ ⓘ Choose a file... mod\_vpl\_moodle42\_2023061712 (1).zip

Accepted file types:  
Archive (ZIP) .zip

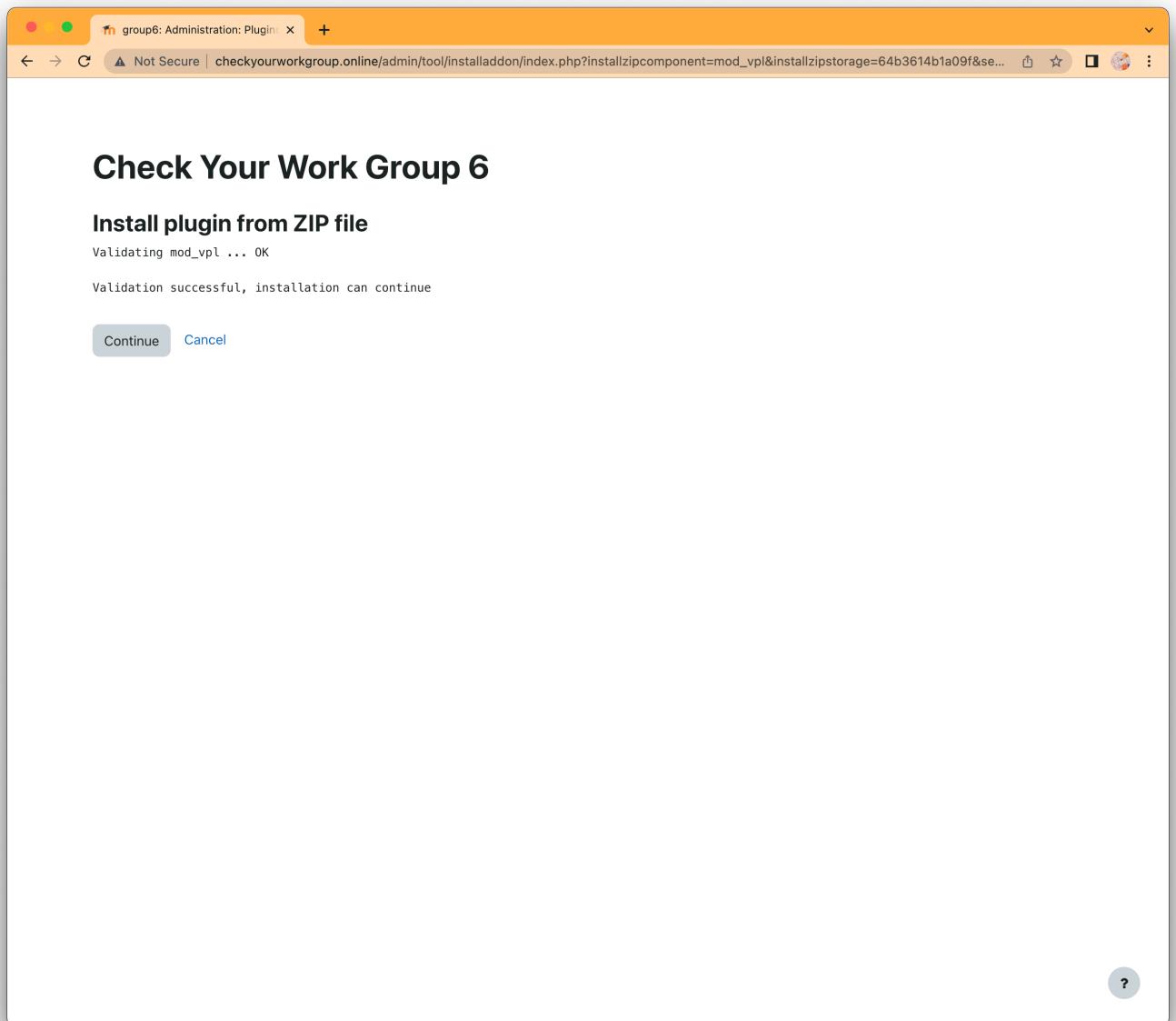
Show more...

Install plugin from the ZIP file

ⓘ Required

?

The screenshot shows the Moodle 'Plugin installer' page. At the top, there's a navigation bar with 'group6' and 'Site administration'. Below it is a header with 'Check Your Work Group 6' and a search bar. The main content area has a title 'Plugin installer' and a button 'Install plugins from the Moodle plugins directory'. A 'ZIP package' section shows a file named 'mod\_vpl\_moodle42\_2023061712 (1).zip' has been uploaded. It also specifies accepted file types as 'Archive (ZIP) .zip'. There's a 'Show more...' link and a large blue 'Install plugin from the ZIP file' button at the bottom.



Current release information

Not Secure | checkyourworkgroup.online/admin/index.php?cache=0&confirmplugincheck=0

|               |                |  |    |
|---------------|----------------|--|----|
| php_extension | soap           | should be installed and enabled for best results | OK |
| php_extension | ctype          | must be installed and enabled                    | OK |
| php_extension | zip            | must be installed and enabled                    | OK |
| php_extension | zlib           | must be installed and enabled                    | OK |
| php_extension | gd             | must be installed and enabled                    | OK |
| php_extension | simplexml      | must be installed and enabled                    | OK |
| php_extension | spl            | must be installed and enabled                    | OK |
| php_extension | pcre           | must be installed and enabled                    | OK |
| php_extension | dom            | must be installed and enabled                    | OK |
| php_extension | xml            | must be installed and enabled                    | OK |
| php_extension | xmlreader      | must be installed and enabled                    | OK |
| php_extension | intl           | must be installed and enabled                    | OK |
| php_extension | json           | must be installed and enabled                    | OK |
| php_extension | hash           | must be installed and enabled                    | OK |
| php_extension | fileinfo       | must be installed and enabled                    | OK |
| php_extension | sodium         | should be installed and enabled for best results | OK |
| php_extension | exif           | should be installed and enabled for best results | OK |
| php_setting   | memory_limit   | recommended setting detected                     | OK |
| php_setting   | file_uploads   | recommended setting detected                     | OK |
| php_setting   | opcache.enable | recommended setting detected                     | OK |

## Other checks

| Information    | Report  | Plugin                | Status |
|----------------|---|-----------------------|--------|
| site not https | <p><a href="#">if this test fails, it indicates a potential problem</a></p> <p>It has been detected that your site is not secured using HTTPS. It is strongly recommended to migrate your site to HTTPS for increased security and improved integration with other systems.</p> | <a href="#">Check</a> | OK     |
| max_input_vars | <p><a href="#">if this test fails, it indicates a potential problem</a></p> <p>PHP setting max_input_vars is recommended to be at least 5000.</p>   | <a href="#">Check</a> | OK     |

Your server environment meets all minimum requirements.

Continue

?

Plugins check

Not Secure | checkyourworkgroup.online/admin/index.php?cache=0&confirmrelease=1&confirmplugincheck=0&confirmupgrade=1

## Plugins check

This page displays plugins that may require your attention during the upgrade, such as new plugins to be installed, plugins to be upgraded, missing plugins etc. Additional plugins are displayed if there is an available update for them. It is recommended that you check whether there are more recent versions of plugins available and update their source code before continuing with this Moodle upgrade.

[Check for available updates](#)

### Plugins requiring attention

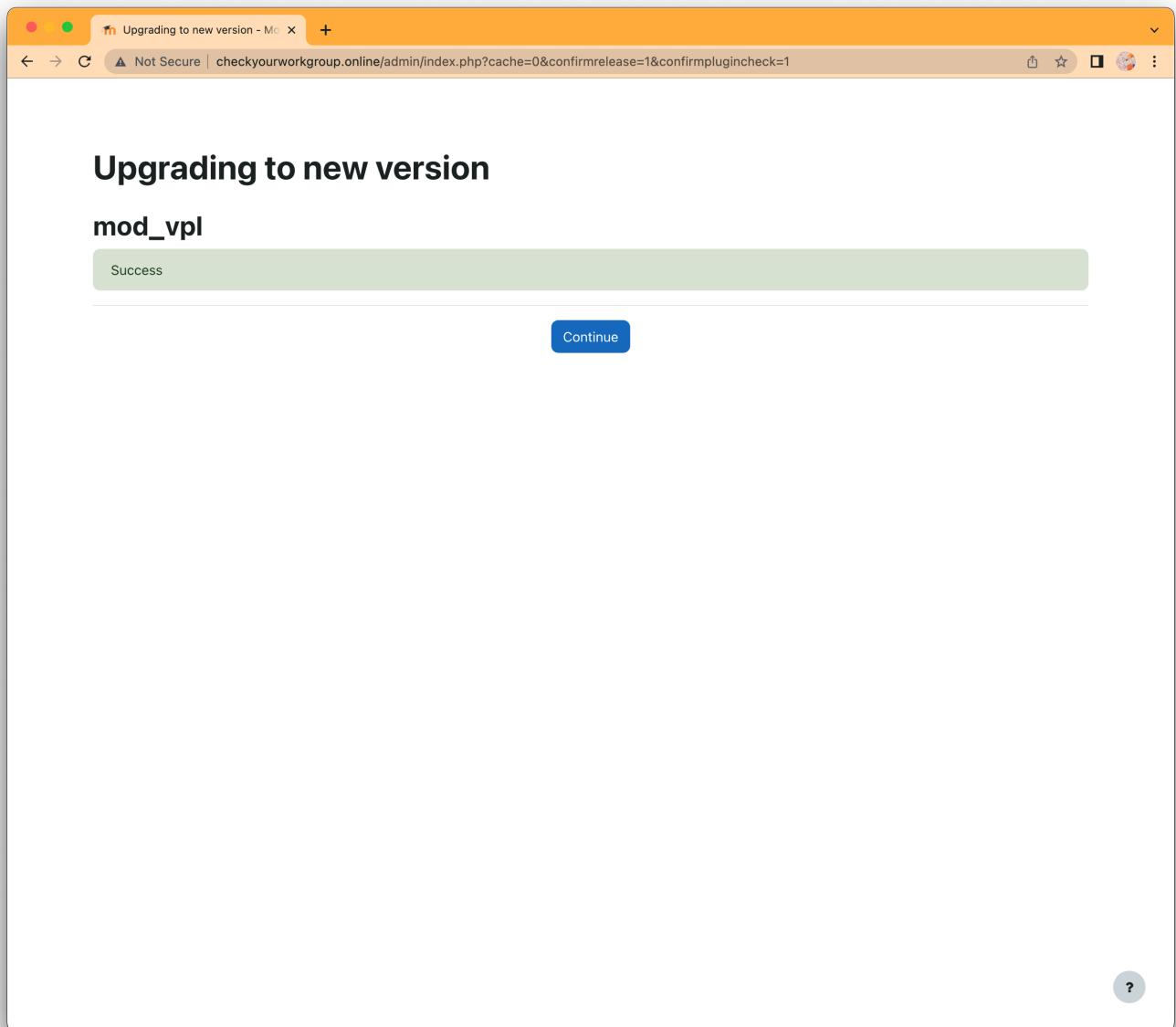
[Cancel new installations \(1\)](#) [Plugins requiring attention 1](#) [All plugins 429](#)

| Plugin name / Directory   | Current version | New version       | Requires   | Source / Status                          |
|---|-----------------|-------------------|--|--|
| <b>Activity modules</b>   |                 |                   |  |  |
|  Virtual programming lab<br>/mod/vpl | 2023061712      | Moodle 2018051713 | <span>Additional</span> <span>To be installed</span> | <a href="#">Cancel this installation</a> |

[Reload](#)

[Upgrade Moodle database now](#)

?



group6: Administration: New settings

Not Secure | checkyourworkgroup.online/admin/upgradesettings.php?

## Check Your Work Group 6

The settings shown below were added during your last Moodle upgrade. Make any changes necessary to the defaults and then click the 'Save changes' button at the bottom of this page.

### New settings - Virtual programming lab

|  |   |
|--|---|
| Maximum upload file size<br>mod_vpl   maxfilesize                    | 1 MiB <input type="button" value="▼"/> Default: 1 MiB           |
| Maximum upload file size   |   |
| Maximum execution time<br>mod_vpl   maxexecutetime                   | 16 minutes <input type="button" value="▼"/> Default: 16 minutes |
| Maximum execution time   |   |
| Maximum execution file size<br>mod_vpl   maxexecfilesize             | 128 MiB <input type="button" value="▼"/> Default: 128 MiB       |
| Maximum execution file size  |   |
| Maximum memory used<br>mod_vpl   maxexecmemory                       | 512 MiB <input type="button" value="▼"/> Default: 512 MiB       |
| Maximum memory used  |   |
| Maximum number of processes<br>mod_vpl   maxexecprocesses            | 400 <input type="button" value=""/> Default: 400                |
| Maximum number of processes  |   |
| Default maximum upload file size<br>mod_vpl   defaultfilesize        | 64 KiB <input type="button" value="▼"/> Default: 64 KiB         |
| Default maximum upload file size                                     |   |
| Maximum default execution time<br>mod_vpl   defaultexecutetime       | 4 minutes <input type="button" value="▼"/> Default: 4 minutes   |
| Maximum default execution time                                       |   |
| Maximum default execution file size<br>mod_vpl   defaultexecfilesize | 64 MiB <input type="button" value="▼"/> Default: 64 MiB         |
| Maximum default execution file size                                  |   |
| Maximum default memory used<br>mod_vpl   defaultexecmemory           | 128 MiB <input type="button" value="▼"/> Default: 128 MiB       |
| <input type="button" value="?"/>                                     |   |

group6: Administration: New s x +

Not Secure | checkyourworkgroup.online/admin/upgradesettings.php?

Maximum default number of processes  
mod\_vpl | defaultexecprocesses

200 Default: 200

Execution servers list  
mod\_vpl | jail\_servers

# This server is only for test use.  
# Install your own Jail server and remove the following line as soon as possible.  
<http://demojail.dis.ulpgc.es>

Default:  
# This server is only for test use.  
# Install your own Jail server and remove the following line as soon as possible.  
<http://demojail.dis.ulpgc.es>

Write a line for each server

Use XML-RPC  
mod\_vpl | use\_xmlrpc

Default: No  
If set, the system will use the old XML-RPC protocol instead of JSON-RPC to communicate with the vpl-jail-servers. Set this option if you are using a vpl-jail-servers with a version previous to V3.0.0.

Accept self signed certificates  
mod\_vpl | acceptcertificates

Default: Yes  
If the execution servers are not using self signed certificates uncheck this option

WebSocket protocol  
mod\_vpl | websocket\_protocol

Use ws or wss depending on if using http or https Default: Use ws or wss depending on if using http or https

Type of WebSocket protocol (ws:// or wss://) used by the browser to connect to execution servers.

proxy  
mod\_vpl | proxy

Default: Empty

Proxy from Moodle to execution servers

Use watermarks  
mod\_vpl | use\_watermarks

Default: No  
Adds watermarks to student's files (only to supported languages)

Discard submission period  
mod\_vpl | discard\_submission\_period

1 minutes Default: 1 minutes  
For each student and assignment, the system tries to discard submissions. The system keep the last one and at least a submission for every period

Editor theme  
mod\_vpl | editor\_theme

chrome Default: chrome

Editor theme

?

Save changes

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/view.php?id=3

group6 Home Dashboard My courses Site administration AU Edit mode

x

General Announcements

Topic 1 Homework1

Topic 2 Homework Programming

Topic 3

Topic 4

cs7346 / Homework Programming

VIRTUAL PROGRAMMING LAB

# Homework Programming

Virtual programming lab Settings Test cases Execution options Requested files More

Mark as done

Description Submissions list Similarity Test activity

Due date: Sunday, 23 July 2023, 7:00 PM  
Maximum number of files: 1  
Type of work: Individual work  
Grade settings: Maximum grade: 100  
Run: No. Evaluate: No

VPL

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/executionoptions.php?id=3

group6 Home Dashboard My courses Site administration Edit mode

General Announcements

Topic 1 Homework1

Topic 2 Homework Programming

Topic 3

Topic 4

VIRTUAL PROGRAMMING LAB

## Homework Programming

Virtual programming lab Settings Test cases Execution options Requested files More

### Execution options: Homework Programming

#### Execution options

Based on Select

Run script Autodetect

Debug script Autodetect

Run Yes

Debug Yes

Evaluate Yes

Evaluate just on submission Yes

Automatic grade Yes

save options

VPL

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/edit.php?id=3&userid=3#

group6 Home Dashboard My courses

x

General Announcements

Topic 1 Homework1

Topic 2

Homework Programming

Topic 3

Topic 4

cs7346 / Homework Programming

VPL

## Homework Programming

Description Submission </> Edit Submission view

File New Open Save Run Stop Help ?

HelloWorld.java

```
1- class HelloWorld{  
2-     public static void main(String[] args){  
3-         System.out.println("Hello World!");  
4-     }  
5- }
```

Console: connection closed (Running)

```
Hello World!
```

Description

Write a program called HelloWorld that will print "Hello World!".

?

The screenshot shows a web-based programming environment for a Java assignment. The left sidebar contains a navigation menu with sections like General, Topic 1, Topic 2, Topic 3, and Topic 4. Topic 2 is currently selected, and its sub-section Homework Programming is also selected. The main workspace is titled "Homework Programming". It features a code editor with the following Java code:

```
1- class HelloWorld{  
2-     public static void main(String[] args){  
3-         System.out.println("Hello World!");  
4-     }  
5- }
```

Below the code editor is a "Console" window titled "connection closed (Running)" which displays the output "Hello World!". To the right of the code editor is a "Description" panel with the following text:

Write a program called HelloWorld that will print "Hello World!".

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/edit.php?id=3&userid=3#

group6 Home Dashboard My courses

Homework Programming

Description Submission Edit Submission view

General Announcements

Topic 1 Homework1

Topic 2

Homework Programming (selected)

Topic 3

Topic 4

HelloWorld.java

```
1- class HelloWorld{  
2-     public static void main(String[] args){  
3-         System.out.println("Hello World!")  
4-     }  
5- }
```

Compilation

HelloWorld.java:3: error: ';' expected  
System.out.println("Hello World!")  
^

1 error  
Not compiled

Description

The screenshot shows a web-based Java code editor interface. On the left, there's a sidebar with navigation links like 'Home', 'Dashboard', 'My courses', and a list of topics under 'Homework Programming'. The main area has tabs for 'Description', 'Submission', 'Edit', and 'Submission view'. The 'Edit' tab is selected, showing a code editor window with 'HelloWorld.java' and its contents. The code is: class HelloWorld{ public static void main(String[] args){ System.out.println("Hello World!"); } }. A red box highlights the error at line 3, character 13, where a closing brace is missing. To the right of the code editor is a 'Compilation' panel showing the error message: 'HelloWorld.java:3: error: ';' expected' followed by the line of code with the cursor at the error position. It also says '1 error' and 'Not compiled'. At the bottom of the editor window is a 'Description' button.

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/edit.php?id=3&userid=3#

group6 Home Dashboard My courses

x c57346 / Homework Programming

VPL Homework Programming

Description Submission </> Edit Submission view

+ File Save Check Chat > ?

Proposed grade: 100 / 100

Comments

Summary of tests

3 tests run/ 3 tests passed

Homework1

Topic 1

Topic 2

Homework Programming

Topic 3

Topic 4

HelloWorld.java

```
1- class HelloWorld{  
2-     public static void main(String[] args){  
3-         System.out.println("Hello World!");  
4-     }  
5- }
```

Description

VPL

The screenshot shows a web-based programming environment for a Java assignment titled "Homework Programming". On the left, a sidebar lists course sections: General, Topic 1 (Homework1), Topic 2 (selected, showing "Homework Programming"), Topic 3, and Topic 4. The main area displays the code "HelloWorld.java" with a proposed grade of 100/100 and a summary of tests indicating 3 tests run and 3 tests passed. The code itself is a simple "Hello World!" program.

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/edit.php?id=3&userid=3#

group6 Home Dashboard My courses

**Homework Programming**

Description Submission Edit Submission view

General Announcements

**Topic 1**

Homework1

**Topic 2**

Homework Programming (selected)

Topic 3

Topic 4

VPL

HelloWorld.java

```
1- class HelloWorld{  
2-     public static void main(String[] args){  
3-         System.out.println("Hello World!");  
4-     }  
5- }
```

Proposed grade: 0 / 100

Compilation

HelloWorld.java:3: error: ';' expected  
System.out.println("Hello World!");  
^  
1 error  
Not compiled

Comments Description

This screenshot shows a web-based programming assignment interface. On the left, a sidebar lists course sections: General, Announcements, Topic 1 (Homework1), Topic 2 (Topic 2 is selected), Topic 3, and Topic 4. The main area is titled "Homework Programming". It features a code editor with a toolbar above it. The code editor contains a Java file named "HelloWorld.java" with the following content:1- class HelloWorld{  
2- public static void main(String[] args){  
3- System.out.println("Hello World!");  
4- }  
5- }

```
The code is highlighted in blue and red, indicating syntax errors. A status bar at the bottom of the code editor says "Not compiled". To the right of the code editor is a panel showing the proposed grade as 0 / 100 and a detailed compilation log. The log shows one error: "HelloWorld.java:3: error: ';' expected" with a caret pointing to the closing brace of the main method. It also states "1 error" and "Not compiled". At the bottom of the main area are links for "Comments" and "Description". A "VPL" link is located at the bottom right of the main content area.
```

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/submissionview.php?id=3&userid=3

group6 Home Dashboard My courses

x

General Announcements

Topic 1 Homework1

Topic 2

Homework Programming

VPL

## Homework Programming

Description Submission </> Edit Submission view

### Grade

Reviewed on Saturday, 15 July 2023, 10:49 PM by Automatic grade

Grade: 0.00 / 100.00

Assessment report [-] [+]**The compilation or preparation of execution has failed**

Submitted on Saturday, 15 July 2023, 10:49 PM ([Download](#))

**HelloWorld.java**

```
1+ class HelloWorld{  
2+     public static void main(String[] args){  
3+         System.out.println("Hello World!")  
4+     }  
5+ }
```

VPL

?

This screenshot shows a web-based programming assignment interface. On the left, a sidebar lists course sections: General (Announcements), Topic 1 (Homework1), Topic 2, and Topic 3/4. Topic 2 is selected, and its sub-section 'Homework Programming' is highlighted with a blue bar. The main content area displays the title 'Homework Programming' with a VPL icon. Below it, tabs for 'Description', 'Submission', 'Edit', and 'Submission view' are shown, with 'Submission view' being active. A large heading 'Grade' is present, followed by a review message from 'Automatic grade' on 'Saturday, 15 July 2023, 10:49 PM'. The grade is '0.00 / 100.00'. An 'Assessment report' section contains the message '[+] The compilation or preparation of execution has failed'. Below this, a file named 'HelloWorld.java' is listed with its content: a single-line Java class definition. At the bottom right, there is a 'VPL' link and a question mark icon.

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/edit.php?id=4&userid=3

group6 Home Dashboard My courses

c57346 / Homework Programming 2

## Homework Programming 2

Description Submission </> Edit Submission view

General Announcements

Topic 1 Homework1

Topic 2 Homework Programming

Topic 3 Homework Programming 2

Topic 4

minOF3.py

```
1- def main():
2     x = float(input(" " ))
3     y = float(input(" " ))
4     z = float(input(" " ))
5     print(min([x, y, z]))
6
7 main()
```

Proposed grade: 66.67 / 100

Comments

**Test 3: Test 3**  
Incorrect program output  
--- Input ---  
1000  
-1000  
2000

--- Program output ---  
> > 1000.0

--- Expected output (numbers)---  
-1000.0

Summary of tests  
3 tests run/ 2 tests passed

Description

This screenshot shows a web-based programming assignment interface. On the left, a sidebar lists course sections: General, Topic 1 (Homework1), Topic 2 (Homework Programming), Topic 3 (Homework Programming 2, which is selected and highlighted in blue), and Topic 4. The main area displays a code editor titled 'minOF3.py' containing Python code to find the minimum of three numbers. To the right of the code editor is a panel showing the proposed grade (66.67 / 100), comments, test results, and a summary of tests. The comments section shows an incorrect program output for Test 3. The test results show an input of 1000, -1000, and 2000, with a program output of 1000.0 and an expected output of -1000.0. The summary indicates 3 tests run and 2 passed.

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/submissionview.php?id=4&userid=3

group6 Home Dashboard My courses

x

General Announcements

Topic 1 Homework1

Topic 2 Homework Programming

Topic 3 Test 3: Test 3

Topic 4 Summary of tests

Homework Programming 2

VPL Description Submission Edit Submission view

Submitted on Saturday, 15 July 2023, 11:23 PM (Download) (Evaluate)

Automatic evaluation [-]

Proposed grade: 66.67 / 100

Comments [-]

[+] Test 3: Test 3

[+] Summary of tests

minOF3.py

```
1+ def main():
2     x = float(input(" "))
3     y = float(input(" "))
4     z = float(input(" "))
5     print(min([x, y, z]))
```

VPL ?

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/forms/edit.php?id=4&userid=4

group6 Home Dashboard My courses

cs7346 / Homework Programming 2

**Homework Programming 2**

Description Submission </> Edit Submission view

General Announcements

Topic 1 Homework1

Topic 2 Homework Programming

Topic 3 Homework Programming 2

Topic 4

VPL

minOF3.py

```
1- def main():
2     x = float( input( "> " ) )
3     y = float( input( "> " ) )
4     z = float( input( "> " ) )
5     print( min( [x, y, z] ) )
6
7 main()
```

Proposed grade: 100 / 100

Comments

Summary of tests

3 tests run/ 3 tests passed

Description

VPL

CSCheckYourWork Homework

Not Secure | checkyourworkgroup.online/mod/vpl/views/submissionslist.php?id=4

group6 Home Dashboard My courses Site administration Edit mode

x

General Announcements

Topic 1 Homework1

Topic 2 Homework Programming

Topic 3 Homework Programming 2

Topic 4

cs7346 / Homework Programming 2

VPL Homework Programming 2

Virtual programming lab Settings Test cases Execution options Requested files More

Description Submissions list Similarity Test activity

Submission selection All submissions

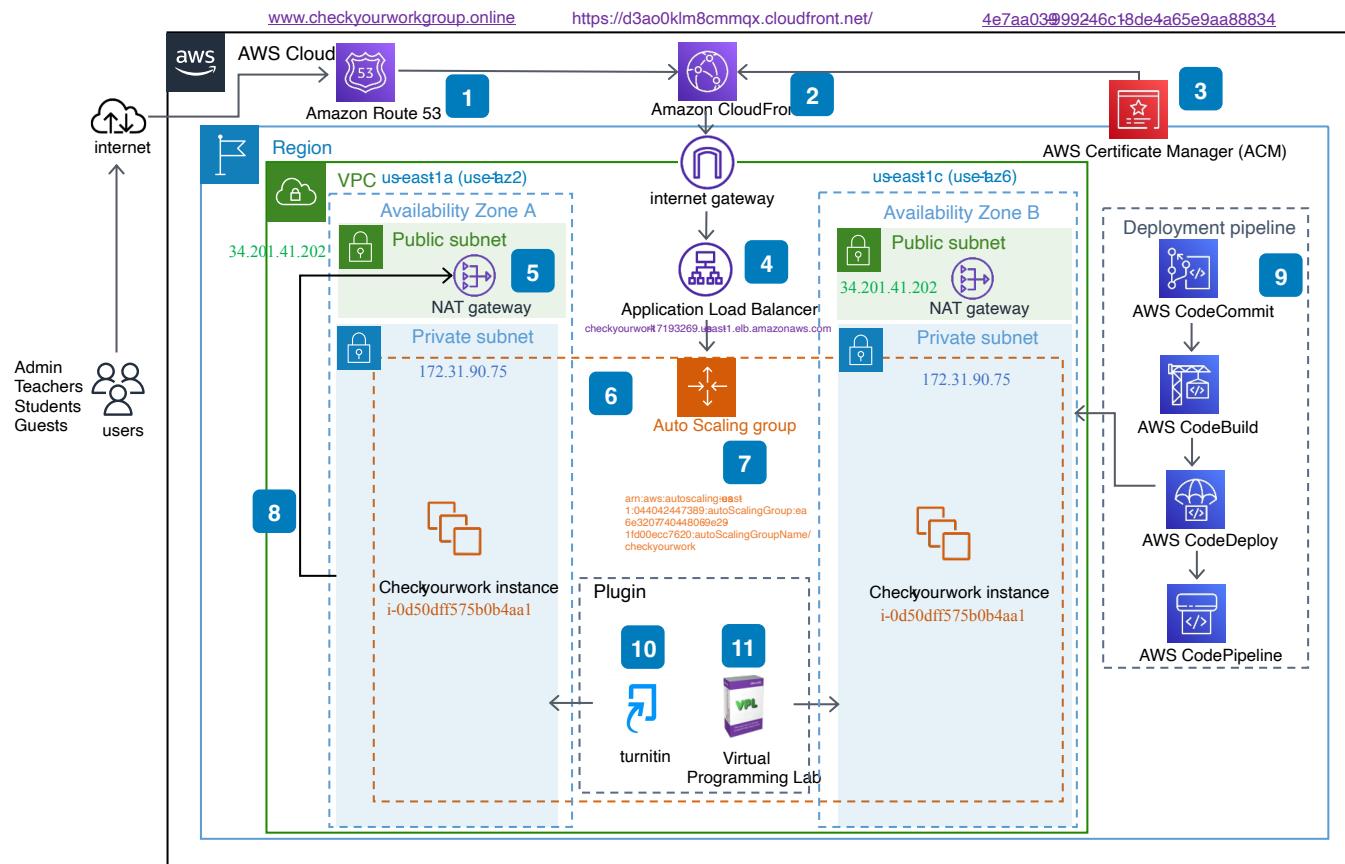
Evaluate Choose...

|   | First name<br>↓ /<br>Last name<br>↓ | Submitted on<br>↓                | Submissions<br>↓ | Grade<br>↓                  | Evaluator<br>↓ | Evaluated on<br>↓ | ⚙️ |
|---|-------------------------------------|----------------------------------|------------------|-----------------------------|----------------|-------------------|----|
| 1 | EE Eve                              | Saturday, 15 July 2023, 11:23 PM | 3                | Proposed grade: 66.67 / 100 |                |                   | ⚙️ |
| 2 | JJ Jo                               | Saturday, 15 July 2023, 11:25 PM | 1                | Proposed grade: 100 / 100   |                |                   | ⚙️ |

VPL

?

# Architecture



## Load Balancer

<https://www.youtube.com/watch?v=JQP96EjRM98&t=399s>

Target groups | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:protocol=HTTP;vpc=vpc-008d24c6794f21b94

Services Search [Option+S] N. Virginia evecs7346

IP addresses
 

- Supports load balancing to VPC and on-premises resources.
- Facilitates routing to multiple IP addresses and network interfaces on the same instance.
- Offers flexibility with microservice-based architectures, simplifying inter-application communication.
- Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.

Lambda function
 

- Facilitates routing to a single Lambda function.
- Accessible to Application Load Balancers only.

Application Load Balancer
 

- Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
- Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

Target group name: checkyourwork

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

|          |                 |
|----------|-----------------|
| Protocol | Port            |
| HTTP     | : 80<br>1-65535 |

VPC
 Select the VPC with the instances that you want to include in the target group.
   
checkyourwork
   
vpc-008d24c6794f21b94
   
IPv4: 172.31.0.0/16

Protocol version
  HTTP1
 Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.
   
 HTTP2
 Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.
   
 gRPC
 Send requests to targets using gRPC. Supported when the request protocol is gRPC.

**Health checks**

The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol: HTTP

Health check path: /moodle

Up to 1024 characters allowed.

► Advanced health check settings

#### Attributes

Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.

#### ► Tags - optional

Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.

Cancel **Next**

Target groups | EC2 Management

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:protocol=HTTP;vpc=vpc-008d24c6794f21b94

EC2 Services Search [Option+S]

Step 1 Specify group details

Step 2 Register targets

## Register targets

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

### Available instances (1)

| Instance ID         | Name          | State   | Security groups  | Zone       | Subnet ID   |
|---------------------|---------------|---------|------------------|------------|-------------|
| i-0d50dff575b0b4aa1 | CheckYourWork | Running | launch-wizard-13 | us-east-1a | subnet-03e4 |

0 selected

Ports for the selected instances  
Ports for routing traffic to the selected instances.  
80  
1-65535 (separate multiple ports with commas)  
Include as pending below

1 selection is now pending below. Include more or register targets when ready.

### Review targets

#### Targets (1)

| All | Remove  | Health status | Instance ID         | Name          | Port | State   | Security groups  | Zone       | Subnet ID                |
|-----|---------|---------------|---------------------|---------------|------|---------|------------------|------------|--------------------------|
| X   | Pending |               | i-0d50dff575b0b4aa1 | CheckYourWork | 80   | Running | launch-wizard-13 | us-east-1a | subnet-03e4be7985be73d33 |

1 pending

Cancel Previous Create target group

CloudShell Feedback Language

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Target groups | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:protocol=HTTP;vpc=vpc-008d24c6794f21b94

Services Search [Option+S] N. Virginia everc7346

Your load balancer routes requests to the targets in a target group and performs health checks on the targets.

Step 2 Register targets

**Basic configuration**  
Settings in this section can't be changed after the target group is created.

**Choose a target type**

**Instances**  
• Supports load balancing to instances within a specific VPC.  
• Facilitates the use of [Amazon EC2 Auto Scaling](#) to manage and scale your EC2 capacity.

**IP addresses**  
• Supports load balancing to VPC and on-premises resources.  
• Facilitates routing to multiple IP addresses and network interfaces on the same instance.  
• Offers flexibility with microservice based architectures, simplifying inter-application communication.  
• Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.

**Lambda function**  
• Facilitates routing to a single Lambda function.  
• Accessible to Application Load Balancers only.

**Application Load Balancer**  
• Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.  
• Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

**Target group name**  
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

**Protocol** Port  
HTTP : 80  
1-65535

**VPC**  
Select the VPC with the instances that you want to include in the target group.

checkyourwork  
vpc-008d24c6794f21b94  
Ipv4: 172.31.0.0/16

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Load balancers | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:

Services Search [Option+S]

N. Virginia evecs7346

## Create Application Load Balancer Info

The Application Load Balancer distributes incoming HTTP and HTTPS traffic across multiple targets such as Amazon EC2 instances, microservices, and containers, based on request attributes. When the load balancer receives a connection request, it evaluates the listener rules in priority order to determine which rule to apply, and if applicable, it selects a target from the target group for the rule action.

### ▶ How Elastic Load Balancing works

#### Basic configuration

**Load balancer name**  
Name must be unique within your AWS account and can't be changed after the load balancer is created.

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

**Scheme** Info  
Scheme can't be changed after the load balancer is created.

**Internet-facing**  
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. [Learn more](#)

**Internal**  
An internal load balancer routes requests from clients to targets using private IP addresses.

**IP address type** Info  
Select the type of IP addresses that your subnets use.

**IPv4**  
Recommended for internal load balancers.

**Dualstack**  
Includes IPv4 and IPv6 addresses.

#### Network mapping Info

The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

**VPC** Info  
Select the virtual private cloud (VPC) for your targets or you can [create a new VPC](#). Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after the load balancer is created. To confirm the VPC for your targets, view your [target groups](#).

vpc-008d24c6794f21b94  
IPv4: 172.31.0.0/16

**Mappings** Info  
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.

**us-east-1a (use1-az2)**

**Subnet**  
 checkyourwork

**IPv4 address**  
Assigned by AWS

**us-east-1c (use1-az6)**

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Load balancers | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:

Services Search [Option+S] N. Virginia evecs7346

### Network mapping Info

The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

**VPC Info**  
Select the virtual private cloud (VPC) for your targets or you can [create a new VPC](#). Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after the load balancer is created. To confirm the VPC for your targets, view your [target groups](#).

checkyourwork  
vpc-008d24c6794f21b94  
IPv4: 172.31.0.0/16

**Mappings Info**  
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.

us-east-1a (use1-az2)

Subnet: subnet-03e4be7985be73d33 Target: checkyourwork

IPv4 address: Assigned by AWS

us-east-1c (use1-az6)

Subnet: subnet-059264442e826937d Target: checkyourwork

IPv4 address: Assigned by AWS

### Security groups Info

A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can [create a new security group](#).

**Security groups**  
Select up to 5 security groups

launch-wizard-13 sg-05a43cef87bc0b228 X  
VPC: vpc-008d24c6794f21b94

default sg-08af3b7b2fd727c56 X  
VPC: vpc-008d24c6794f21b94

### Listeners and routing Info

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

**Listener HTTP:80**

| Protocol | Port | Default action   |
|----------|------|--|
| HTTP     | : 80 | Forward to: checkyourwork<br>Target type: Instance, IPv4 |

Remove

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Load balancers | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard:

VPC: vpc-008d24c6794f21b94 [Option+S] N. Virginia evecs7346

### Listeners and routing Info

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

▼ Listener HTTP:80

| Protocol  | Port            | Default action | Info   |
|---|-----------------|----------------|--|
| HTTP  | : 80<br>1-65535 | Forward to     | checkyourwork<br>Target type: Instance, IPv4 |
| HTTP <input checked="" type="radio"/> <input type="radio"/> |                 |                |  |
| <a href="#">Create target group</a>                         |                 |                |  |

**Listener tags - optional**  
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

[Add listener tag](#)  
You can add up to 50 more tags.

[Add listener](#)

▼ Add-on services - optional

Additional AWS services can be integrated with this load balancer at launch. You can also add these and other services after your load balancer is created by reviewing the "Integrated Services" tab for the selected load balancer.

**AWS Global Accelerator Info**  
 Create an accelerator to get static IP addresses and improve the performance and availability of your applications. [Additional charges apply](#)

► Load balancer tags - optional

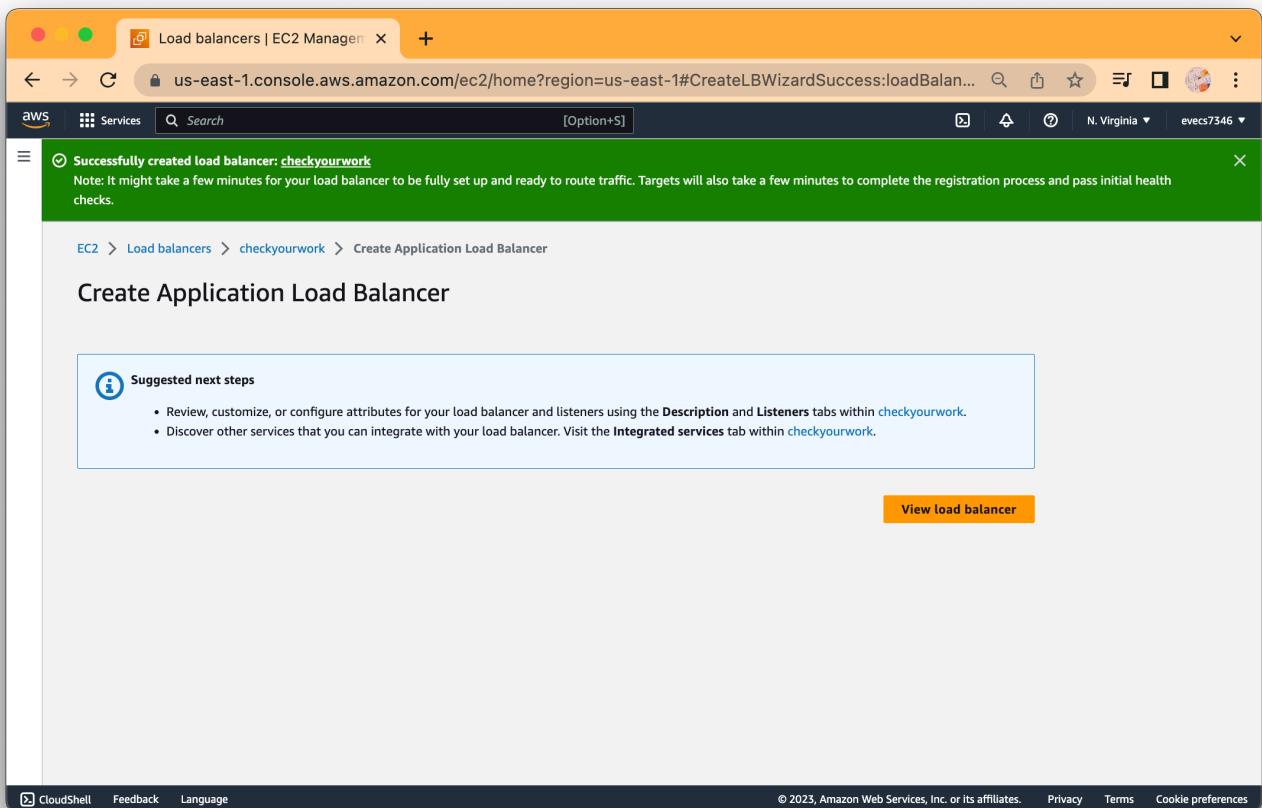
Consider adding tags to your load balancer. Tags enable you to categorize your AWS resources so you can more easily manage them. The 'Key' is required, but 'Value' is optional. For example, you can have Key = production-webserver, or Key = webserver, and Value = production.

### Summary

Review and confirm your configurations. [Estimate cost](#)

|  |  |   |   |
|--|--|---|---|
| <b>Basic configuration</b> <a href="#">Edit</a><br>checkyourwork <ul style="list-style-type: none"><li>Internet-facing</li><li>IPv4</li></ul>                            | <b>Security groups</b> <a href="#">Edit</a> <ul style="list-style-type: none"><li>launch-wizard-13<br/>sg-05a43cef87bc0b228</li><li>default<br/>sg-08af3b7b2fd727c56</li></ul> | <b>Network mapping</b> <a href="#">Edit</a> <ul style="list-style-type: none"><li>VPC <a href="#">vpc-008d24c6794f21b94</a> checkyourwork<ul style="list-style-type: none"><li>us-east-1a<br/>subnet-03e4be7985be73d33</li><li>us-east-1c<br/>subnet-05926442e826957d</li></ul></li></ul> | <b>Listeners and routing</b> <a href="#">Edit</a> <ul style="list-style-type: none"><li>HTTP:80 defaults to checkyourwork</li></ul> |
| <b>Add-on services</b> <a href="#">Edit</a><br>None  | <b>Tags</b> <a href="#">Edit</a><br>None   |   |   |
| <b>Attributes</b> <p><small>① Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer.</small></p> |  |   |   |

[Cancel](#) [Create load balancer](#)



## Route 53

[www.checkyourworkgroup.online](http://www.checkyourworkgroup.online)

Screenshot of the AWS Route 53 Hosted Zones console for the domain `checkyourworkgroup.online`.

The left sidebar shows the navigation path: Route 53 > Hosted zones > checkyourworkgroup.online.

The main content area displays the "Hosted zone details" for the domain `checkyourworkgroup.online`. It includes a table of records:

| Record name                   | Type | Routing policy | Alias | Value/Route traffic to   | TTL (s...) | Health ... |
|-------------------------------|------|----------------|-------|--|------------|------------|
| checkyourworkgroup.online     | NS   | Simple         | No    | ns-5.awsdns-00.com.<br>ns-1739.awsdns-21.co.uk.<br>ns-570.awsdns-07.net.<br>ns-1210.awsdns-23.org. | 172800     | -          |
| checkyourworkgroup.online     | SOA  | Simple         | No    | ns-6.awsdns-00.com.awsdns...   | 900        | -          |
| www.checkyourworkgroup.online | A    | Simple         | No    | 34.201.41.202  | 300        | -          |

Buttons at the top right include: Delete zone, Test record, Configure query logging, Edit hosted zone, Import zone file, and Create record.

```
// When 'latency' seconds have lapsed after an update to a table
// it is deemed safe to use readonly slave for reading from the table.
// It is optional, defaults to 1 second. If you want once written to a table
// to always use master handle for reading set it to something ridiculously big,
// eg 10.
// Lower values increase the performance, but setting it too low means
// missing the master-slave sync.
'exclude_tables' => [
    'table1', // Should not be used, unless in rare cases when some area of the system
    'table2', // is malfunctioning and you still want to use readonly feature.
],
// Then one can exclude offending tables while investigating.

More info available in lib/dml/moodle_read_slave_trait.php where the feature is implemented.
]

*/
// For all database config settings see https://docs.moodle.org/en/Database_settings
);

//=====================================================================
// 2. WEB SITE LOCATION
//=====================================================================
// Now you need to tell Moodle where it is located. Specify the full
// web address to where moodle has been installed. If your web site
// is accessible via multiple URLs then choose the most natural one
// that your students would use. Do not include a trailing slash
//
// If you need both intranet and Internet access please read
// http://docs.moodle.org/en/masquerading

$CFG->wwwroot = 'http://www.checkyourworkgroup.online';

//=====================================================================
// 3. DATA FILES LOCATION
//=====================================================================
// Now you need a place where Moodle can save uploaded files. This
// directory should be readable AND WRITEABLE by the web server user
// (usually 'nobody' or 'apache'), but it should not be accessible
// directly via the web.
//
// - On hosting systems you might need to make sure that your "group" has
//   no permissions at all, but that "others" have full permissions.
//
// - On Windows systems you might specify something like 'c:\moodledata'

$CFG->dataroot = '/var/moodledata';

//=====================================================================
// 4. DATA FILES PERMISSIONS
//=====================================================================
// The following parameter sets the permissions of new directories
// created by Moodle within the data directory. The format is in
// octal format (as used by the Unix utility chmod, for example).
// The default is usually OK, but you may want to change it to 0750
// if you are concerned about world-access to the files (you will need
// to make sure the web server process (eg Apache) can access the files.
// NOTE: the prefixed 0 is important, and don't use quotes.

$CFG->directorypermissions = 02777;

"config.php" 1194L, 61307C
```

141,0-1

9%

Domain Portfolio: checkyourworkgroup.online

dcc.godaddy.com/control/portfolio/checkyourworkgroup.online/settings?tab=dns&itc=maya\_vh\_buildwebsite\_domain

Portfolio

DNS NEW

Transfers

Services

Settings

Overview

DNS Records

Nameservers

Using custom nameservers

Nameservers

ns-6.awsdns-00.com

ns-1739.awsdns-25.co.uk

ns-570.awsdns-07.net

ns-1210.awsdns-23.org

Add Nameserver

Save Cancel

See what's new | Help Center | Change Nameservers

Edit nameservers

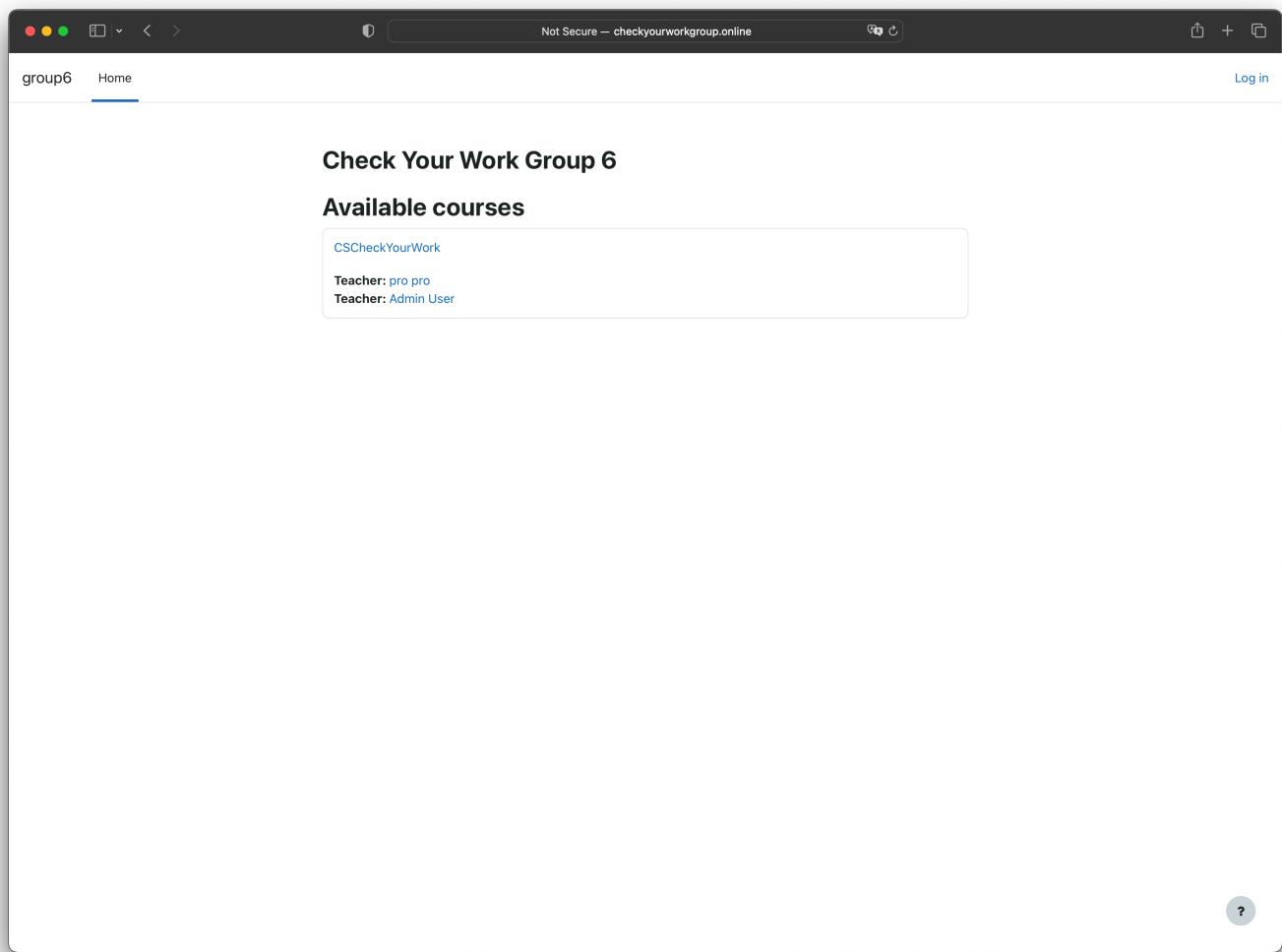
Choose nameservers for checkyourworkgroup.online

GoDaddy Nameservers (recommended)

I'll use my own nameservers

X

The screenshot shows a web browser window for the GoDaddy Domain Portfolio. The main page has a sidebar with options like Portfolio, DNS (selected), Transfers, Services, and Settings. The main content area shows domain management for 'checkyourworkgroup.online'. A modal dialog box is open, titled 'Edit nameservers', which allows users to choose their own nameservers. The 'I'll use my own nameservers' option is selected. A list of four nameservers is displayed: ns-6.awsdns-00.com, ns-1739.awsdns-25.co.uk, ns-570.awsdns-07.net, and ns-1210.awsdns-23.org. Each name in the list has a small trash can icon to its right. At the bottom of the list is a link to 'Add Nameserver'. At the very bottom of the dialog are 'Save' and 'Cancel' buttons.



The screenshot shows the AWS Route 53 console with the hosted zone 'checkyourworkgroup.online'. A success message at the top indicates that 'www.checkyourworkgroup.online was successfully updated. Route 53 propagates your changes to all of the Route 53 authoritative DNS servers within 60 seconds. Use "View status" button to check propagation status.' The 'Hosted zone details' section shows three records: 'checkyourworkgroup.online' (NS, Simple, No Alias), 'checkyourworkgroup.online' (SOA, Simple, No Alias), and 'www.checkyourworkgroup.online' (A, Simple, Yes Alias). The 'Record details' pane on the right shows the 'www' record with the value 'dualstack.checkyourwork-17193269.us-east-1.elb.amazonaws.com'.

# ACM

The screenshot shows the AWS Certificate Manager (ACM) 'Request certificate' page. The 'Certificate type' section is open, showing two options: 'Request a public certificate' (selected) and 'Request a private certificate'. A note states: 'Requesting a private certificate requires the creation of a private certificate authority (CA). To create a private CA, visit AWS Private Certificate Authority.' Navigation buttons 'Cancel' and 'Next' are at the bottom right.

Screenshot of the AWS Certificate Manager (ACM) Request public certificate page.

The URL is [us-east-1.console.aws.amazon.com/acm/home?region=us-east-1#/certificates/request/public](https://us-east-1.console.aws.amazon.com/acm/home?region=us-east-1#/certificates/request/public).

The navigation path is: AWS Certificate Manager > Certificates > Request certificate > Request public certificate.

**Domain names**  
Provide one or more domain names for your certificate.

Fully qualified domain name [Info](#)  
www.checkyourworkgroup.online

Add another name to this certificate  
You can add additional names to this certificate. For example, if you're requesting a certificate for "www.example.com", you might want to add the name "example.com" so that customers can reach your site by either name.

**Validation method** [Info](#)  
Select a method for validating domain ownership.

DNS validation - recommended  
Choose this option if you are authorized to modify the DNS configuration for the domains in your certificate request.

Email validation  
Choose this option if you do not have permission or cannot obtain permission to modify the DNS configuration for the domains in your certificate request.

**Key algorithm** [Info](#)  
Select an encryption algorithm. Some algorithms may not be supported by all AWS services.

RSA 2048  
RSA is the most widely used key type.

ECDSA P 256  
Equivalent in cryptographic strength to RSA 3072.

ECDSA P 384  
Equivalent in cryptographic strength to RSA 7680.

**Tags** [Info](#)  
To help you manage your certificates, you can optionally assign your own metadata to each resource in the form of tags.

No tags associated with this resource.

Add tag  
You can add 50 more tag(s).

Cancel Previous Request

AWS Certificate Manager

us-east-1.console.aws.amazon.com/acm/home#region=us-east-1#certificates/32547b59-dd0f-4e06-9164-8a332721e40a

**AWS Certificate Manager (ACM)**

Successfully created DNS records  
Successfully created DNS records in Amazon Route 53 for certificate with ID 32547b59-dd0f-4e06-9164-8a332721e40a.

**Certificate status**

|   |   |
|---|---|
| Identifier<br>32547b59-dd0f-4e06-9164-8a332721e40a  | Status<br><a href="#">Pending validation</a> <a href="#">Info</a> |
| ARN<br><a href="#">arnaws:acm:us-east-1:044042447389:certificate/32547b59-dd0f-4e06-9164-8a332721e40a</a> |   |
| Type<br>Amazon Issued   |   |

**Domains (1)**

| Domain                        | Status                             | Renewal status | Type  | CNAME name   | CNAME value   |
|-------------------------------|------------------------------------|----------------|-------|--|---|
| www.checkyourworkgroup.online | <a href="#">Pending validation</a> | -              | CNAME | _717a64a6051d609e5fc225da62c85b0.www.checkyourworkgroup.online | _f1ee7515615b3836fcfb6372da2079dc.kwddbwrbjk.acm-validations.aws. |

**Details**

|  |  |   |                                   |
|--|--|---|-----------------------------------|
| In use<br>No                                 | Serial number<br>N/A   | Requested at<br>July 16, 2023, 10:52:28 (UTC-05:00) | Renewal eligibility<br>Ineligible |
| Domain name<br>www.checkyourworkgroup.online | Public key info<br>RSA 2048  | Issued at<br>N/A                                    |                                   |
| Number of additional names<br>0              | Signature algorithm<br>SHA-256 with RSA  | Not before<br>N/A                                   |                                   |
|  | Can be used with<br>CloudFront, Elastic Load Balancing, API Gateway and other integrated services. | Not after<br>N/A                                    |                                   |

**Tags (0)**

[Manage](#)

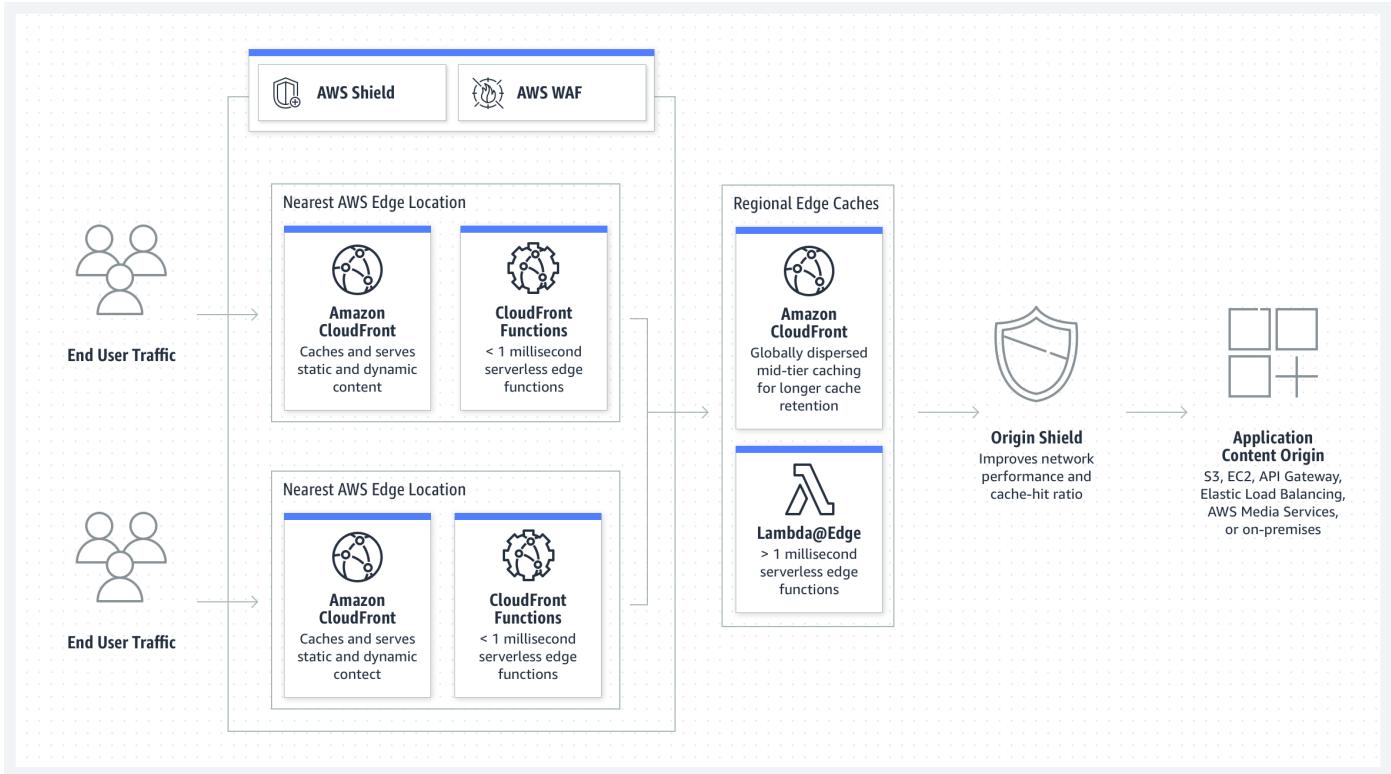
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The screenshot shows the AWS Certificate Manager (ACM) interface. A green notification bar at the top indicates "Successfully created DNS records" for a certificate with ID 32547b59-dd0f-4e06-9164-8a332721e40a. The main table displays two certificates:

| Certificate ID                       | Domain name                            | Type          | Status | In use | Renewal eligibility | Key algorithm |
|--------------------------------------|--|---------------|--------|--------|---------------------|---------------|
| 32547b59-dd0f-4e06-9164-8a332721e40a | www.checkyourworkgroup.online          | Amazon Issued | Issued | No     | Ineligible          | RSA 2048      |
| 5260a817-8750-4e4a-b376-bdb0389d5dfd | distribution.checkyourworkgroup.online | Amazon Issued | Issued | Yes    | Eligible            | RSA 2048      |

## Cloudfront

<https://aws.amazon.com/cloudfront/>



Screenshot of the AWS CloudFront distribution settings page (Edit settings - ELC5354TQQCZ) in the AWS Management Console.

### Edit settings

#### Web Application Firewall (WAF)

Enable security protections  
Keep your application secure from the most common web threats and security vulnerabilities using AWS WAF. Blocked requests are stopped before they reach your web servers.

Do not enable security protections  
Select this option if your application does not need security protections from AWS WAF.

#### Settings

**Price class:** Info  
Choose the price class associated with the maximum price that you want to pay.  
 Use all edge locations (best performance)  
 Use only North America and Europe  
 Use North America, Europe, Asia, Middle East, and Africa

**Alternate domain name (CNAME) - optional**  
Add the custom domain names that you use in URLs for the files served by this distribution.  
 Remove  
 Add item  
 ⓘ To add a list of alternative domain names, use the bulk editor.

**Custom SSL certificate - optional**  
Associate a certificate from AWS Certificate Manager. The certificate must be in the US East (N. Virginia) Region (us-east-1).  
   
 www.checkyourworkgroup.online

**Security policy**  
The security policy determines the SSL or TLS protocol and the specific ciphers that CloudFront uses for HTTPS connections with viewers (clients).  
 TLSv1.2\_2021 (recommended)  
 TLSv1.2\_2019  
 TLSv1.2\_2018  
 TLSv1.1\_2016  
 TLSv1\_2016

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Edit settings - ELC5354TQQCZ

us-east-1.console.aws.amazon.com/cloudfront/v3/home?region=us-east-1#/distributions/ELC5354TQQCZ3/edit

AWS Services Search [Option+S]

Add item

To add a list of alternative domain names, use the [bulk editor](#).

Custom SSL certificate - *optional*

Associate a certificate from AWS Certificate Manager. The certificate must be in the US East (N. Virginia) Region (us-east-1).

www.checkyourworkgroup.online (4e7aa039-9992-46c1-8de4-a65e9aa88834)

www.checkyourworkgroup.online  Request certificate

Legacy clients support - \$600/month prorated charge applies. Most customers do not need this.  
CloudFront allocates dedicated IP addresses at each CloudFront edge location to serve your content over HTTPS.

Enabled

Security policy

The security policy determines the SSL or TLS protocol and the specific ciphers that CloudFront uses for HTTPS connections with viewers (clients).

TLSv1\_2\_2021 (recommended)

TLSv1\_2\_2019

TLSv1\_2\_2018

TLSv1\_1\_2016

TLSv1\_2016

TLSv1

Supported HTTP versions

Add support for additional HTTP versions. HTTP/1.0 and HTTP/1.1 are supported by default.

HTTP/2

HTTP/3

Default root object - *optional*

The object (file name) to return when a viewer requests the root URL (/) instead of a specific object.

Standard logging

Get logs of viewer requests delivered to an Amazon S3 bucket.

Off

On

IPv6

Off

On

Description - *optional*

Cancel

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ELC5354TQQCZ3 - Distribution

us-east-1.console.aws.amazon.com/cloudfront/v3/home?region=us-east-1#/distributions/ELC5354TQQCZ3

CloudFront > Distributions > ELC5354TQQCZ3

View metrics

**General** | Origins | Behaviors | Error pages | Geographic restrictions | Invalidations | Tags

**Details**

|   |  |  |
|---|--|--|
| Distribution domain name<br>d3ao0klm8cmmqx.cloudfront.net | ARN<br>arn:aws:cloudfront:044042447389:distribution/ELC5354TQQCZ3<br>3 | Last modified<br>July 16, 2023 at 9:51:01 PM UTC |
|---|--|--|

**Settings**

|  |   |                          |
|--|---|--------------------------|
| Description<br>-   | Alternate domain names<br>www.checkyourworkgroup.online | Standard logging<br>Off  |
| Price class<br>Use all edge locations (best performance) | Custom SSL certificate<br>www.checkyourworkgroup.online | Cookie logging<br>Off    |
| Supported HTTP versions<br>HTTP/2, HTTP/1.1, HTTP/1.0    | Security policy<br>TLSv1.2_2021                         | Default root object<br>- |
| AWS WAF<br>-   |   |                          |

**Continuous deployment** Info

Create staging distribution

New experience  
Tell us what you think

CloudShell Feedback Language

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The screenshot shows the AWS Route 53 service console for the domain `checkyourworkgroup.online`. The left sidebar navigation includes options like Dashboard, Hosted zones, Health checks, IP-based routing, Traffic flow, Domains, Resolver, and DNS Firewall. The main content area displays the `checkyourworkgroup.online` hosted zone details, specifically the `Records` section. A new record is being created for the `www` subdomain. The `Record name` is set to `www.checkyourworkgroup.on...`, the `Type` is `A`, and the `Routing policy` is `Simple`. The `Value/Route traffic to` field contains the CloudFront distribution ARN `d3ao0klm8cmmqx.cloudfront.net.`. The `TTL (s)` is set to `300`. The `Alias` checkbox is checked, and the `Route traffic to` dropdown is set to `CloudFront distribution` with the value `US East (N. Virginia) [us-east-1]`. The `Save` button is highlighted in orange at the bottom right of the edit form.

## Auto Scaling group

Auto Scaling groups | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces

Load Balancing Load Balancers Target Groups

Auto Scaling Groups Auto Scaling Groups

## Amazon EC2 Auto Scaling

helps maintain the availability of your applications

Auto Scaling groups are collections of Amazon EC2 instances that enable automatic scaling and fleet management features. These features help you maintain the health and availability of your applications.

### How it works

An Auto Scaling group is a collection of Amazon EC2 instances that are treated as a logical unit. You configure settings for a group and its instances as well as define the group's minimum, maximum, and desired capacity. Setting different minimum and maximum capacity values forms the bounds of the group, which allows the group to scale as the load on your application spikes higher or lower, based on demand. To scale the Auto Scaling group, you can either make manual adjustments to the desired capacity or let Amazon EC2 Auto Scaling automatically add and remove capacity to meet changes in demand.

When launching fleets of instances, you can specify what percentage of your capacity should be fulfilled by On-Demand instances, and what percentage with Spot Instances, to save up to 90% on EC2 costs. Amazon EC2 Auto Scaling lets you provision and balance capacity across Availability Zones to optimize availability. It also provides lifecycle hooks, instance health checks, and scheduled scaling to automate capacity management.

### Benefits and features

Create Auto Scaling group

Get started with EC2 Auto Scaling by creating an Auto Scaling group.

Create Auto Scaling group

### Pricing

Amazon EC2 Auto Scaling features have no additional fees beyond the service fees for Amazon EC2, CloudWatch (for scaling policies), and the other AWS resources that you use. Visit the pricing page of each service to learn more.

### Getting started

What is Amazon EC2 Auto Scaling?

Getting started with Amazon EC2 Auto Scaling

Set up a scaled and load-balanced application

FAQ

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Aut... © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Create Auto Scaling group | EC

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:

Services Search [Option+S]

N. Virginia evecs7346

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

## Choose launch template Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.

**Name**

**Auto Scaling group name**  
Enter a name to identify the group.  
 Must be unique to this account in the current Region and no more than 255 characters.

**Launch template Info**

For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

**Launch template**  
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

checkyourwork   
MyTemplate

**Create a launch template version Info**

| Description           | Launch template  | Instance type          |
|-----------------------|--|------------------------|
| checkyourwork         | checkyourwork <input type="checkbox"/><br>lt-02ccb1ecfa65d4099 | t2.micro               |
| AMI ID                | Security groups  | Request Spot Instances |
| ami-053b0d53c279acc90 | -  | No                     |
| Key pair name         | Security group IDs   |                        |
| -                     | sg-05a43cef87bc0b228 <input type="checkbox"/>                  |                        |

**Additional details**

| Storage (volumes) | Date created   |
|-------------------|--|
| -                 | Sun Jul 16 2023 17:57:03 GMT-0500<br>(Central Daylight Time) |

Create Auto Scaling group | EC  + us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup: Services Search [Option+S] N. Virginia evecs7346

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

## Choose instance launch options Info

Choose the VPC network environment that your instances are launched into, and customize the instance types and purchase options.

### Network Info

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC

Choose the VPC that defines the virtual network for your Auto Scaling group.

vpc-008d24c6794f21b94 (checkyourwork) 172.31.0.0/16 Default

[Create a VPC](#)

Availability Zones and subnets

Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.

Select Availability Zones and subnets

us-east-1a | subnet-03e4be7985be73d33 (checkyourwork) 172.31.80.0/20 Default

us-east-1c | subnet-059264442e826937d 172.31.32.0/20 Default

[Create a subnet](#)

### Instance type requirements Info

You can keep the same instance attributes or instance type from your launch template, or you can choose to override the launch template by specifying different instance attributes or manually adding instance types.

| Launch template                                   | Version | Description   |
|---|---------|---------------|
| checkyourwork <input type="button" value="Edit"/> | Default | checkyourwork |
| lt-02ccb1ecfa65d4099                              |         |               |

Instance type  t2.micro

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Create Auto Scaling group | EC

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:

Services Search [Option+S]

N. Virginia evecs7346

Step 3 - optional  
Configure advanced options

Step 4 - optional  
Configure group size and scaling policies

Step 5 - optional  
Add notifications

Step 6 - optional  
Add tags

Step 7  
Review

### Load balancing Info

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

No load balancer  
Traffic to your Auto Scaling group will not be fronted by a load balancer.

Attach to an existing load balancer  
Choose from your existing load balancers.

Attach to a new load balancer  
Quickly create a basic load balancer to attach to your Auto Scaling group.

### Attach to an existing load balancer

Select the load balancers that you want to attach to your Auto Scaling group.

Choose from your load balancer target groups  
This option allows you to attach Application, Network, or Gateway Load Balancers.

Choose from Classic Load Balancers

Existing load balancer target groups  
Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.

Select target groups

checkyourwork | HTTP X  
Application Load Balancer: checkyourwork

### VPC Lattice integration options Info

To improve networking capabilities and scalability, integrate your Auto Scaling group with VPC Lattice. VPC Lattice facilitates communications between AWS services and helps you connect and manage your applications across compute services in AWS.

Select VPC Lattice service to attach

No VPC Lattice service  
VPC Lattice will not manage your Auto Scaling group's network access and connectivity with other services.

Attach to VPC Lattice service  
Incoming requests associated with specified VPC Lattice target groups will be routed to your Auto Scaling group.

Create new VPC Lattice service [+]

### Health checks

Health checks increase availability by replacing unhealthy instances. When you use multiple health checks, all are evaluated, and if at least one fails, instance replacement occurs.

EC2 health checks  
Always enabled

Additional health check types - optional Info

Turn on Elastic Load Balancing health checks Recommended  
Elastic Load Balancing monitors whether instances are available to handle requests. When it reports an unhealthy instance, EC2 Auto Scaling can replace it on its next periodic check.

Turn on VPC Lattice health checks  
VPC Lattice can monitor whether instances are available to handle requests. If it considers a target as failed a health check, EC2 Auto Scaling replaces it after its next periodic check.

Health check grace period Info  
This time period delays the first health check until your instances finish initializing. It doesn't prevent an instance from terminating when placed into a non-running state.

300 seconds

### Additional settings

Monitoring Info  
 Enable group metrics collection within CloudWatch

Default instance warmup Info  
The amount of time that CloudWatch metrics for new instances do not contribute to the group's aggregated instance metrics, as their usage data is not reliable yet.

Enable default instance warmup

Cancel Skip to review Previous Next

Create Auto Scaling group | EC

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:

Services Search [Option+S]

N. Virginia evecs7346

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

### Configure group size and scaling policies - optional Info

Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.

#### Group size - optional Info

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

Desired capacity

Minimum capacity

Maximum capacity

#### Scaling policies - optional

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info

Target tracking scaling policy Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

None

#### Instance scale-in protection - optional

Instance scale-in protection If protect from scale in is enabled, newly launched instances will be protected from scale in by default.

Enable instance scale-in protection

Cancel Skip to review Previous Next

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Create Auto Scaling group | EC

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGro...

Services Search [Option+S]

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Add notifications - optional Info

Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.

Add notification

Cancel Skip to review Previous Next

Auto Scaling group details | EC  +  
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroupDetails:i... Search [Option+S] ⋮

aws Services N. Virginia evecs7346

EC2 > Auto Scaling groups > checkyourwork

## checkyourwork

Details Activity Automatic scaling Instance management Monitoring Instance refresh

### Group details

|  |                       |                             |  |
|--|-----------------------|-----------------------------|--|
| Auto Scaling group name<br>checkyourwork                                     | Desired capacity<br>2 | Status<br>Updating capacity | Amazon Resource Name (ARN)<br>arn:aws:autoscaling:us-east-1:044042447389:autoScalingGroup:e6e3207-7404-4806-9e29-1fd00ecc7620:autoScalingGroupName/checkyourwork |
| Date created<br>Sun Jul 16 2023 18:01:33 GMT-0500<br>(Central Daylight Time) | Minimum capacity<br>1 | Maximum capacity<br>4       |  |

### Launch template

|  |   |  |   |
|--|---|--|---|
| Launch template<br><a href="#">lt-02ccb1ecfa65d4099</a><br>checkyourwork | AMI ID<br><a href="#">ami-053b0d53c279acc90</a> | Instance type<br>t2.micro                                  | Owner<br>arn:aws:iam::044042447389:root                                     |
| Version<br>Default   | Security groups<br>-                            | Security group IDs<br><a href="#">sg-05a43cef87bc0b228</a> | Create time<br>Sun Jul 16 2023 17:57:03 GMT-0500<br>(Central Daylight Time) |
| Description<br>checkyourwork   | Storage (volumes)<br>-                          | Key pair name<br>-   | Request Spot Instances<br>No  |

[View details in the launch template console](#)

### Network

|  |  |
|--|--|
| Availability Zones<br>us-east-1a, us-east-1c | Subnet ID<br>subnet-03e4be7985be73d33, subnet-05926442e826937d |
|--|--|

### Instance type requirements

Your Auto Scaling group adheres to the launch template for purchase option and instance type.

### Load balancing

|  |                             |
|--|-----------------------------|
| Load balancer target groups<br><a href="#">checkyourwork</a> | Classic Load Balancers<br>- |
|--|-----------------------------|

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Attach to Auto Scaling Group | X +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#A...

Services Search [Option+S] N. Virginia evecs7346

EC2 > Instances > i-0d50dff575b0b4aa1 > Attach to Auto Scaling group

## Attach to Auto Scaling group Info

Enable automatic scaling for an instance by attaching it to an Auto Scaling group.

Instance ID  
i-0d50dff575b0b4aa1 (CheckYourWork)

Public IPv4 DNS  
ec2-34-201-41-202.compute-1.amazonaws.com

Auto Scaling Group  
Choose an existing Auto Scaling group or enter a name to create a new Auto Scaling group.  
Enter an Auto Scaling group

ⓘ When you attach an instance to a new Auto Scaling group, we create a new launch configuration and associate it with the Auto Scaling group.

Cancel Attach

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Instance details | EC2 Manager

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0d50dff575b0b4aa1

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Instances

Instances Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Target Groups

Instance summary for i-0d50dff575b0b4aa1 (CheckYourWork) Info

Updated less than a minute ago

Instance ID: i-0d50dff575b0b4aa1 (CheckYourWork)

Public IPv4 address: 34.201.41.202 | open address

Private IPv4 addresses: 172.31.90.75

IPv6 address: -

Instance state: Running

Public IPv4 DNS: ec2-34-201-41-202.compute-1.amazonaws.com | open address

Hostname type: IP name: ip-172-31-90-75.ec2.internal

Private IP DNS name (IPv4 only): ip-172-31-90-75.ec2.internal

Answer private resource DNS name: IPv4 (A)

Instance type: t2.large

Elastic IP addresses: -

Auto-assigned IP address: 34.201.41.202 [Public IP]

VPC ID: vpc-008d24c6794f21b94 (checkyourwork)

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | Learn more

IAM Role: -

Subnet ID: subnet-03e4be7985be73d33 (checkyourwork)

Auto Scaling Group name: checkyourwork

IMDSv2: Optional

Details Security Networking Storage Status checks Monitoring Tags

Instance details Info

Platform: Ubuntu (Inferred)

Platform details: Linux/UNIX

Stop protection: Disabled

Instance auto-recovery: Default

AMI Launch index: 0

Credit specification:

AMI ID: ami-0261755bbcb8c4a84 (checkyourwork)

AMI name: ubuntu/images/hvm-ssd/ubuntu-focal-20.04-amd64-server-20230517

Launch time: Sat Jul 15 2023 09:55:00 GMT-0500 (Central Daylight Time) (1 day)

Kernel ID:

Monitoring: disabled

Termination protection: Disabled

AMI location: amazon/ubuntu/images/hvm-ssd/ubuntu-focal-20.04-amd64-server-20230517

Stop-hibernate behavior: disabled

State transition reason: -

State transition message: -

CloudShell Feedback Language

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