Moodle Usage instructions:

1. **Launch the product** via 1-click from AWS Marketplace. **Wait** until the instance status changes to 'Running' and passes all health checks. Then, connect to your instance using your Amazon private key and the '**ubuntu**' user."

To update software, use: **sudo apt update && sudo apt upgrade -y**

2. Set the correct Moodle URL for this instance (wwwroot), run these commands

```
PUBLIC_IP="$(curl -s http://169.254.169.254/latest/meta-data/public-ipv4)"

sudo sed -i "s|^\$CFG->wwwroot[[:space:]]*=.*;|\$CFG->wwwroot =
'http://${PUBLIC_IP}';|" /var/www/moodle/config.php

sudo systemctl restart php8.3-fpm nginx
```

3) Set a new admin password (and print login info)

```
PASS="TempPass5150!"

sudo -u www-data /usr/bin/php /var/www/moodle/admin/cli/reset_password.php --
username=admin --password="$PASS"

echo "Login URL: http://${PUBLIC_IP}/login/index.php"

echo "Username: admin"

echo "Password: $PASS"
```

4) Log in via browser Open:

- **http://Your_Instance_Public_IP/login/index.php**
- Go to “Log in” (top right)

Note: Moodle will be generic until you name it later on in admin

Log in with:

- Username: admin
- Password: (printed above)

Additional Info for adding a domain name

Adding a Custom Domain and Trusted SSL (Optional)

If you want to use your own domain and a trusted HTTPS certificate:

1. Point your domain's DNS record to this instance's public IP. your-domain.com → <INSTANCE PUBLIC IP>
2. Set your domain in a variable (edit this line) to your domain:

   DOMAIN="yourdomain.com"

3. Update the Nginx config:

sudo sed -i "s|^\s*server_name .*;| server_name ${DOMAIN} www.${DOMAIN};|g" /etc/nginx/sites-available/moodle.conf

sudo nginx -t

sudo systemctl reload nginx

4: Install Certbot and request a trusted SSL certificate

sudo apt update

sudo apt install -y certbot python3-certbot-nginx

sudo certbot --nginx -d ${DOMAIN} -d www.${DOMAIN}

During the prompts:

- Enter your email
- Agree to the terms
- Choose the option to **redirect HTTP to HTTPS** when asked

Tell Moodle to use your HTTPS domain (required)
Moodle stores its "official" base URL in config.php. Update it to your domain:

sudo sed -i "s|^\$CFG->wwwroot[[:space:]]*=.*;|\$CFG->wwwroot = 'https://${DOMAIN}';|" /var/www/moodle/config.php

sudo systemctl restart php8.3-fpm nginx

Confirm auto-renewal is working
Let's Encrypt certificates renew automatically, but you should test once:

sudo certbot renew --dry-run

Open your Moodle site in a browser:

https://yourdomain.com/login/index.php

AWS Data

- Data Encryption Configuration: This solution does not encrypt data within the running instance.
- User Credentials are stored: /root/.ssh/authorized_keys & /home/ubuntu/.ssh/authorized_keys
- Monitor the health:
    - Navigate to your Amazon EC2 console and verify that you're in the correct region.
    - Choose Instance and select your launched instance.
    - Select the server to display your metadata page and choose the Status checks tab at the bottom of the page to review if your status checks passed or failed.

Extra Information: (Optional)

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

1. Select ELASTIC IPs.
2. Click on the ALLOCATE ELASTIC IP ADDRESS.
3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.
5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
7. Your instance now has an elastic IP associated with it.
8. For additional help: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html