

## Job Description

### Objective

Configure Linux server. Generally speaking, this is a LAMP server.

### Description

- Provided
  - EC2 server with ssh access on AWS with AWS Linux installed with up to date OS. Server will be x86 64 bit.
  - Public IP for ssh and www access
  - A user with ssh access and a key file for ssh
  - Server firewall will be open
- Domain names: clearlight.one, clearlight.app
- Install and configure following software:
  - Amazon utilities: amazon-ec2-utils
  - AWS CLI version 2 version 2.15.17 (current version)
  - Cron: cronie version 1.5.7 (current version)
  - Python 3 3.9.16 (current version)
  - PHP 8.2.9 (current version)
  - Apache HTTPD version 2.4.58 (current version)
  - MySQL 8.4.2 LTS community (current version)
  - Certbot: certbot version 2.6.0 (current version)
  - Python for certbot: python-certbot-apache
  - net-tools.x86\_64
  - wget
  - mod\_ssl for httpd
- Configure httpd
  - http port 80 redirects to https port 443 for both domains.
  - www.clearlight.one alias for clearlight.one
  - www.clearlight.app alias for clearlight.app
- Install HTTPD module mod\_ssl
- Change mysql root password
- Install PHP modules if not already there
  - php-pdo.x86\_64
  - php-mbstring.x86\_64
  - php-mysql.x86\_64
  - php8.1-mysqlnd.x86\_64

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- php-common
  - php-process
  - php-xml
  - php-gd
  - php-dba
- Host name is set to clearlight.app
  - Use certbot for SSL certificates
    - sudo certbot -d clearlight.one -d \*clearlight.one --apache
    - sudo certbot -d clearlight.app -d \*clearlight.app --apache
  - Contact will be available to answer questions via email and whatsapp

### Skills Required

- Unix system administration
- Command line proficiency
- Familiar with above listed software and their configuration

### Milestones and Payment

- To be discussed

### Timeframe

- Build within 48 hours of taking on work

### Verification

- aws -version shows AWS CLI version 2 and Python 3.
- hostname shows clearlight.app
- HTTPD runs on boot and is accessible from www https and http for domains
  - clearlight.one
  - clearlight.app
- mysqld runs or boot accessible from PHP and shell script
- Cron runs on boot
- SSH runs on boot
- SSL certificate via certbot, https is working with valid certificates from letsencrypt.org
- Application software is installed on server runs correctly