# By UTD Spring 2024 AR Project Batch

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# Grafana Setup

# Installation MOP

## Create the EC2 instance

## Grafana Documentation for installation

[Install Grafana on Debian or Ubuntu | Grafana documentation](https://grafana.com/docs/grafana/latest/setup-grafana/installation/debian/)

### Perform the commands in EC2

sudo apt-get install -y apt-transport-https software-properties-common wget

sudo mkdir -p /etc/apt/keyrings/

wget -q -O - https://apt.grafana.com/gpg.key | gpg --dearmor | sudo tee /etc/apt/keyrings/grafana.gpg > /dev/null

echo "deb [signed-by=/etc/apt/keyrings/grafana.gpg] https://apt.grafana.com stable main" | sudo tee -a /etc/apt/sources.list.d/grafana.list

echo "deb [signed-by=/etc/apt/keyrings/grafana.gpg] https://apt.grafana.com beta main" | sudo tee -a /etc/apt/sources.list.d/grafana.list

# Updates the list of available packages

sudo apt-get update

# Installs the latest OSS release:

sudo apt-get install grafana

# Installs the latest Enterprise release:

#sudo apt-get install grafana-enterprise

Sudo grafana-server -v

Sudo systemctl start grafana-server

Sudo systemctl enable grafana-server

Sudo ufw enable

Sudo ufw allow ssh

Sudo ufw allow 3000/tcp

## Stoping

Sudo system stop grafana-server

Sudo apt remove grafana

## Credentials

grafana:admin

password: ar#?tsF8>6h>!#ygV

## Securing with https

**\*\*\*\*\*\*\*\*\*\* Installiong Certs \*\*\*\*\*\*\*\***

**https://grafana.com/docs/grafana/latest/setup-grafana/set-up-https/**

**\*\*Important: Add SG 80 to 0.0.0.0**

**sudo apt-get install snapd**

**sudo snap install core; sudo snap refresh core**

**sudo apt-get remove certbot**

**sudo snap install --classic certbot**

**sudo ln -s /snap/bin/certbot /usr/bin/certbot**

**Installing Certbot**

**sudo certbot certonly --standalone**

**Domain: analytics.athletereserve.com**

**Email: chrissimonds@chrissi-monds.com**

**sudo chmod 644 /etc/letsencrypt/live/analytics.athletereserve.com/fullchain.pem**

**sudo chmod 644 /etc/letsencrypt/live/analytics.athletereserve.com/privkey.pem**

**sudo chown root:root /etc/letsencrypt/live/analytics.athletereserve.com/fullchain.pem**

**sudo chown root:root /etc/letsencrypt/live/analytics.athletereserve.com/privkey.pem**

**sudo chmod 655 /etc/letsencrypt/archive**

**sudo chmod 655 /etc/letsencrypt/archive/analytics.athletereserve.com**

**sudo chmod 655 /etc/letsencrypt/live**

**sudo chmdo 655 /etc/letsencrypt/live/analytics.athletereserve.com**

**cd /etc/grafana**

**Update grafana.ini**

**[server]**

**http\_addr =**

**http\_port = 3000**

**domain = <<analytics.athletereserve.com>>**

**root\_url = https://analytics.athletereserve.com:3000**

**cert\_key = /etc/letsencrypt/live/analytics.athletereserve.com/privkey.pem**

**cert\_file = /etc/letsencrypt/live/analytics.athletereserve.com/fullchain.pem**

**enforce\_domain = False**

**protocol = https**

**sudo systemctl restart grafana-server**

**sudo systemctl daemon-reload**

**sudo systemctl start grafana-server**

**sudo systemctl status grafana-server**

**Validate https://analytics.athletereserve.com.com:3000**

**\*\*Finally remove SG on port 80 0.0.0.0**