

Redash HTTPS (SSL) Setup

Prerequisite: VM should have a public IP Address, a domain name to be associated with that Public IP, and port 80, 443 to be opened

Installing Certificates

- Login to Redash VM

```
sudo yum install -y epel-release
sudo yum install -y yum-utils
sudo yum install -y certbot
```
- To Install certificates

```
sudo certbot certonly --standalone
```

Provide group gmail ID(alerts-saas-prod1@argoid.com) and the domain name in certbot prompt
- Certs will be installed in **/etc/letsencrypt/live/domain_name/**

```
[manjunath@argoid-saas-prod1-host-056 ~]$ sudo ls /etc/letsencrypt/live/analytics.prod.rarerabbit.saas.argoid.com/
cert.pem chain.pem fullchain.pem privkey.pem README
[manjunath@argoid-saas-prod1-host-056 ~]$
```

Configuring SSL in Redash

- Create Nginx configuration file

```
vi /opt/redash/nginx/nginx.conf
```

```
upstream redash {
    server redash:5000;
}

server {
    listen      80;
    listen [::]:80;
    server_name analytics.prod.rarerabbit.saas.argoid.com;

    location ^~ /ping {
        proxy_set_header Host $http_host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;

        proxy_pass http://redash;
    }

    location / {
        rewrite ^ https://$host$request_uri? permanent;
    }

    location ^~ /.well-known {
        allow all;
        root /data/letsencrypt/;
    }
}

server {
```

```

listen      443                ssl http2;
listen [::]:443                ssl http2;
server_name analytics.prod.rarerabbit.saas.argo.id.com;

add_header Strict-Transport-Security "max-age=31536000" always;

ssl_session_cache shared:SSL:20m;
ssl_session_timeout 10m;

ssl_protocols TLSv1 TLSv1.1 TLSv1.2;
ssl_prefer_server_ciphers on;
ssl_ciphers "ECDH+AESGCM:ECDH+AES256:ECDH+AES128:!ADH:!AECDH:!MD5:";

ssl_stapling on;
ssl_stapling_verify on;
resolver 8.8.8.8 8.8.4.4;

ssl_certificate /etc/letsencrypt/live/analytics.prod.rarerabbit.saas.argo.id.com/fullchain.pem;
ssl_certificate_key /etc/letsencrypt/live/analytics.prod.rarerabbit.saas.argo.id.com/privkey.pem;
ssl_trusted_certificate /etc/letsencrypt/live/analytics.prod.rarerabbit.saas.argo.id.com/chain.pem;

access_log /dev/stdout;
error_log /dev/stderr info;

# other configs

location / {
    proxy_set_header Host $http_host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;

    proxy_pass http://redash;
}

```

Mention domain name in `server_name` sections, also mention the correct path of certs file in `ssl_certificate` `ssl_certificate_key` `ssl_trusted_certificate` section (Certs file will be mounted inside the container, so the path of the certs file should start with `/etc/letsencrypt/live/`)

- Modify the docker-compose file to mount the certs inside Nginx
`/opt/redash/docker-compose.yml`

```
volumes:
  - /opt/redash/nginx/nginx.conf:/etc/nginx/conf.d/default.conf
  - /etc/letsencrypt/:/etc/letsencrypt/
```

Also, enable host port-mapping on Port 443

```
nginx:
  image: redash/nginx:latest
  ports:
    - "80:80"
    - "443:443"
  depends_on:
    - server
  links:
    - server:redash
```

Fully functional docker-compose file should look like

```
version: "2"
x-redash-service: &redash-service
  image: redash/redash:8.0.0.b32245
  depends_on:
    - postgres
    - redis
  env_file: /opt/redash/env
  restart: always
services:
  server:
    <<: *redash-service
    command: server
    ports:
      - "5000:5000"
    environment:
      REDASH_WEB_WORKERS: 4
  scheduler:
    <<: *redash-service
    command: scheduler
    environment:
      QUEUES: "celery"
      WORKERS_COUNT: 1
  scheduled_worker:
    <<: *redash-service
    command: worker
    environment:
      QUEUES: "scheduled_queries,schemas"
```

```

    WORKERS_COUNT: 1
  adhoc_worker:
    <<: *redash-service
    command: worker
    environment:
      QUEUES: "queries"
      WORKERS_COUNT: 2
  redis:
    image: redis:5.0-alpine
    restart: always
  postgres:
    image: postgres:9.6-alpine
    env_file: /opt/redash/env
    volumes:
      - /opt/redash/postgres-data:/var/lib/postgresql/data
    restart: always
  nginx:
    image: redash/nginx:latest
    ports:
      - "80:80"
      - "443:443"
    depends_on:
      - server
    links:
      - server:redash
    volumes:
      - /opt/redash/nginx/nginx.conf:/etc/nginx/conf.d/default.conf
      - /etc/letsencrypt/:/etc/letsencrypt/
    restart: always

```

- Restart Redash containers

```

cd /opt/redash/
/usr/local/bin/docker-compose up -d

```

- `docker-compose -f docker-compose.yml up -d.`

Reference: <https://gist.github.com/arikfr/64c9ff8d2f2b703d4e44fe9e45a7730e>