Module-6: Containerization using Docker Part - I

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DEMO-3: Detached vs Foreground mode

Running container in Detached mode

Note: All commands are executed as root.

1. To start a container in the background/detached mode pass the -d flag while starting the container

```
$ docker run -d <imageName>
```

The console is free after the container starts in background

```
root@docker-1:/# docker run -d nginx
88b2598f4b2ad2ea0f2fa5b4626670524e786467e144dde6734b6d486222e10e
root@docker-1:/# docker ps
CONTAINER ID        IMAGE               COMMAND                 CREATED           STATUS            PORTS
 NAMES
88b2598f4b2a        nginx               "/docker-entrypoint.…"  3 seconds ago     Up 2 seconds      80/tcp
 elastic_franklin
```

2. Running a container in the foreground mode attaches the terminal to the container's STDIN/STDOUT/STDERR
   The -a flag can be passed to specify the stream (by default without any flags containers always start in attached mode)

```
$ docker run -a <stream> <imageName>
```

```
root@docker-1:/# docker run -a STDOUT nginx
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
```