Section 4 - Command line structure - System Verification

1 - First Docker commands

Verify the Docker Install (1)

- Use the **docker version** command to display all version information
- This is the first command to execute on a new system to verify the Docker installation



Verify the Docker Install (2)

```
# docker version
Client:
Version: 18.03.0-ce
API version: 1.37
 Go version: qo1.9.4
Git commit: 0520e24302
Built: Fri Mar 23 08:31:36 2018
OS/Arch: windows/amd64
 Experimental:
              false
Orchestrator:
               swarm
Server:
 Engine:
 Version:
               18.05.0-ce
 API version:
               1.37 (minimum version 1.12)
 Go version:
               qo1.10.1
 Git commit:
               f150324
  Built:
               Wed May 9 22:20:42 2018
 OS/Arch:
               linux/amd64
```

Verify the Docker Install (3)

Notes:

- From the output of the **docker version** command we can see the client and the server version.
- Remember that Docker is a client server application.
- Ideally client and server versions should be the same but they don't have to be.
- We refer to Docker server also as Docker engine or Docker daemon.
- The fact that I did get returned information from the server validates that I can talk to the server and that it's working properly.



docker info

• Use the **docker info** command to display system-wide information



docker info (2)

```
# docker info
Containers: 5
Running: 0
Paused: 0
Stopped: 5
Images: 24
Server Version: 18.05.0-ce
...
Swarm: inactive
... output truncated
```

Notes:

From the command output we can see:

- Number of containers (Running, Paused and Stopped)
- Number of images stored
- The Swarm state (active inactive)



Complete list of Docker commands (1)

- To get the complete list of Docker commands type docker and hit
- The Docker COMMAND has 3 main sections:
 - 1. Options
 - 2. Management Commands
 - 3. Commands



Complete list of Docker commands (2)

```
$ docker
Usage: docker COMMAND
Options:
Management Commands:
             Manage containers
  container
             Manage images
  image
  network Manage networks
  . . .
Commands:
  attach
             Attach local standard input, output, and error streams to a
             Build an image from a Dockerfile
  build
```



Docker command format

New format:

• Old format (still working):



Examples

new command format

```
# docker container run
# docker container ps
```

old command format

```
# docker run
# docker ps
```

Notes: Docker is really focused on backwards compatibility. So the docker run will probably work forever; but new commands we get will use this docker command value.



Commands Summary

```
# docker version
# docker info
# docker <Enter> => CLI documentation
# docker <command> <sub-command>
# docker container run
# docker run
```

Exercise

- Ref:
- D_S4_L1_First_Docker_commands_ex.md