Data Engineer Bootcamp (Full-Time)

HM
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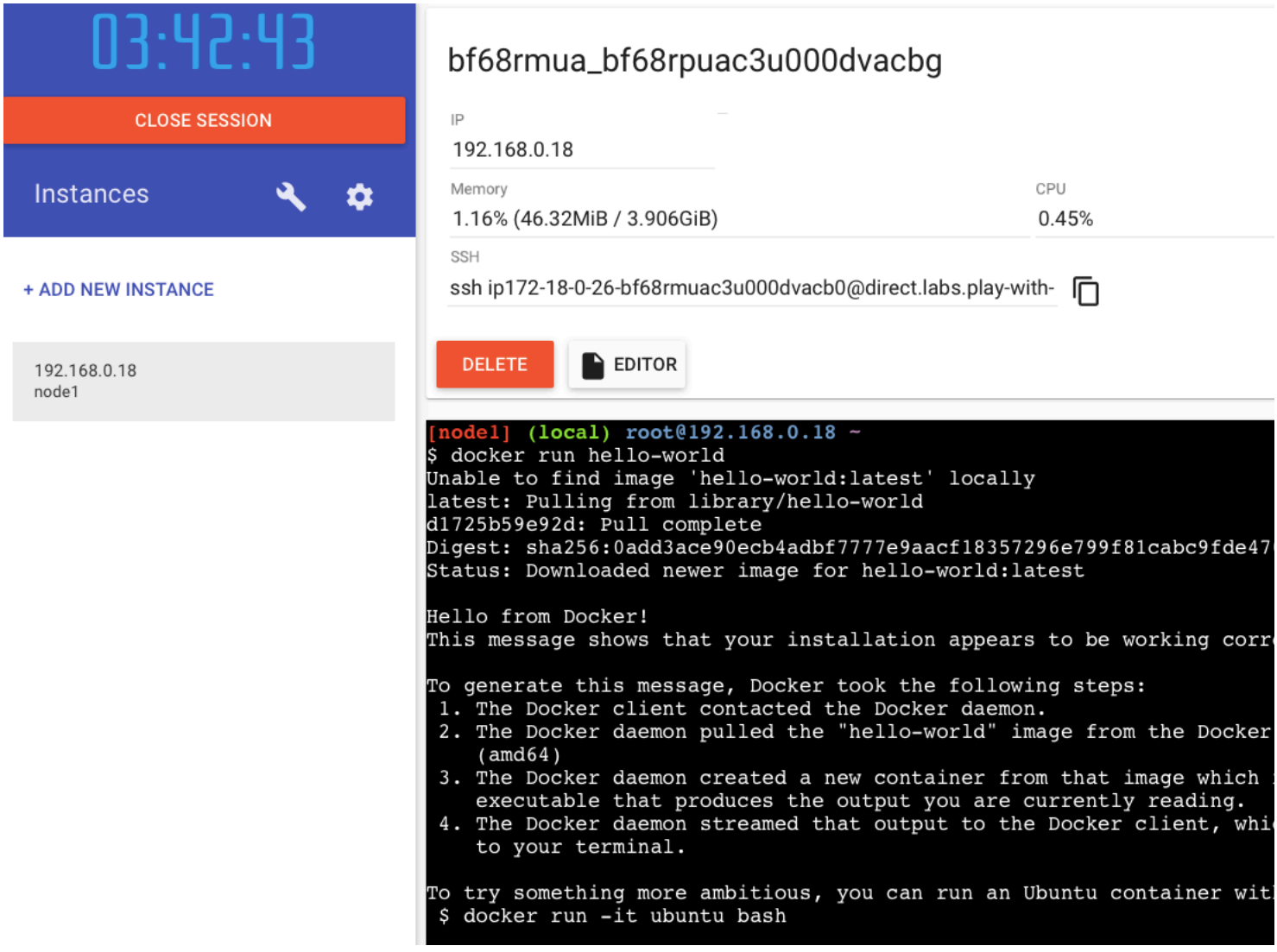
Demonstrating Hello World Example | dockerlabs

Tested Infrastructure

Running Hello World Example



Explanation

This image is a prime example of using the scratch image effectively. See hello.c in https://github.com/docker-library/hello-world for the source code of the hello binary included in this image.

So what's happened here? We've called the docker run command, which is responsible for launching containers.

The argument hello-world is the name of the image someone created on dockerhub for us. It will first search for “hello-world” image locally and then search in Dockerhub.

Once the image has been downloaded, Docker turns the image into a running container and executes it.

Did you Know?

1. The Hello World Docker Image is only 1.84 KB size.

```
[node1] (local) root@192.168.0.18 ~
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
hello-world         latest              4ab4c602aa5e        6 weeks ago         1.84kB
```

1. While running `docker ps` command, it doesn’t display any running container. Reason - It gets executed once and exit immediately.

```
$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
      PORTS               NAMES
```

1. You can use `docker inspect <imagename>` command to inspect about this particular Docker Image.

```
$ docker inspect 4ab
[
    {
        "Id": "sha256:4ab4c602aa5eed5528a6620ff18a1dc4faef0e1ab3a5eddeddb410714478c67f",
        "RepoTags": [
            "hello-world:latest"
        ],
        "RepoDigests": [
            "hello-world@sha256:0add3ace90ecb4adbf7777e9aacf18357296e799f81cabc9fde470971e499788"
        ],
        "Parent": "",
        "Comment": "",
        "Created": "2018-09-07T19:25:39.809797627Z",
        "Container": "15c5544a385127276a51553acb81ed24a9429f9f61d6844db1fa34f46348e420",
        "ContainerConfig": {
            "Hostname": "15c5544a3851",
            "Domainname": "",
            "User": "",
            "AttachStdin": false,
            "AttachStdout": false,
            "AttachStderr": false,
            "Tty": false,
            "OpenStdin": false,
            "StdinOnce": false,
            "Env": [
                "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
            ],
            "Cmd": [
                "/bin/sh",
                "-c",
                "#(nop) ",
                "CMD [\"/hello\"]"
            ],
            "ArgsEscaped": true,
            "Image": "sha256:9a5813f1116c2426ead0a44bbec252bfc5c3d445402cc1442ce9194fc1397027",
            "Volumes": null,
            "WorkingDir": "",
            "Entrypoint": null,
            "OnBuild": null,
            "Labels": {}
        },
        "DockerVersion": "17.06.2-ce",
        "Author": "",
        "Config": {
            "Hostname": "",
            "Domainname": "",
            "User": "",
            "AttachStdin": false,
            "AttachStdout": false,
            "AttachStderr": false,
            "Tty": false,
            "OpenStdin": false,
            "StdinOnce": false,
            "Env": [
                "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
            ],
            "Cmd": [
                "/hello"
            ],
            "ArgsEscaped": true,
            "Image": "sha256:9a5813f1116c2426ead0a44bbec252bfc5c3d445402cc1442ce9194fc1397027",
            "Volumes": null,
            "WorkingDir": "",
            "Entrypoint": null,
            "OnBuild": null,
            "Labels": null
        },
        "Architecture": "amd64",
        "Os": "linux",
        "Size": 1840,
        "VirtualSize": 1840,
```

```
        "GraphDriver": {
            "Data": {
                "MergedDir": "/var/lib/docker/overlay2/e494ae30abc49ad403ef5c2a32bcb894629ea4da6d4d226fbca70d27ed9a74d8/merged",
                "UpperDir": "/var/lib/docker/overlay2/e494ae30abc49ad403ef5c2a32bcb894629ea4da6d4d226fbca70d27ed9a74d8/diff",
                "WorkDir": "/var/lib/docker/overlay2/e494ae30abc49ad403ef5c2a32bcb894629ea4da6d4d226fbca70d27ed9a74d8/work"
            },
            "Name": "overlay2"
        },
        "RootFS": {
            "Type": "layers",
            "Layers": [
                "sha256:428c97da766c4c13b19088a471de6b622b038f3ae8efa10ec5a37d6d31a2df0b"
            ]
        },
        "Metadata": {
            "LastTagTime": "0001-01-01T00:00:00Z"
        }
    }
]
```