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APRIL 20, 2023

DevOps Classroomnotes 20/Apr/2023

YAML

- This is data representation format, which uses name/value pairs
- The basic format is `<name>: <value>`

```
topic: Docker
```

- types of data
    - Simple/Scalar
        - Text
        - number
        - boolean
    - Complex
        - list/array
        - map/dictionary/object
- Extension of YAML files is `.yaml` or `.yml`. YAML is a text file
- Simple yaml

```
url: directdevops.blog
author: khaja
isDailyUpdated: true
isLoginRequired: false
articlecount: 1000
```

- List example

```
---
Colors:
  - Black
  - White
Movies:
  - Avengers
  - Batman Begins
```

- Map/Dictionary/object

```
---
Address:
  flatno: 407
  building: Mythrivanam
  area: Ameerpet
  city: Hyderabad
```

- yaml about Quality Thought

```
---
name: QualityThought
url: https://qualitythought.in
courses:
  - name: Azure
    faculty: khaja
    duration: 90
  - name: AWS
    faculty: khaja
    duration: 90
  - name: DevOps
    faculty: khaja
    duration: 110
  - name: Manual Testing
    faculty: Ramana
    duration: 60
Branches:
```

- Try writing about yourself in a yaml according to following structure

```
---
#qualification
yearofpassing: <number>
university: <text>
grade: text (A+|A|B|C)
----
# education
<name>: <qualification>

----
name: <text>
mobile: <text>
email: <text>
education: list(<education>)
```

- Example 1 (Postgraduate)

```
---
name: vishnu
mobile: '999999999'
email: vishnu@gmail.com
education:
  - mtech:
      yearofpassing: 2017
      university: jnu
      grade: A
  - btech:
      yearofpassing: 2015
      university: jntu
      grade: A+
```

- Example (graduate – BSc)

```
---
name: Swathi
mobile: '88888888'
email: swathi@outlook.com
education:
  - BSc:
      yearofpassing: 2020
      university: osmania
      grade: A+
```

- YAML will be used to define kuberentes manifests and docker compose files

Docker compose

- This was external tool, but now it is integrated as docker subcommand `docker compose`
- Compose allows use to specify the yaml file which helps in creating the below by specifying in a yaml file
    - networks
    - volumes
    - containers

- docker compose file will have the name of `docker-compose.yml`
- sample

```
---
version: '3.9'
services:
  web:
    image: nginx:latest
    networks:
      - hello-net
    volumes:
      - type: volume
        source: my-vol
        target: /tools
networks:
  hello-net:
    driver: bridge
volumes:
  my-vol:
```

- to start all the containers create a folder copy the docker-compose.yaml and execute `docker compose up -d` and to remove every thing `docker compose down`
  Preview
- Refer Here for the compose file with instructions to run student course register which we have executed manually yesterday

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