

YAML

- This is data representation format and generally has extension of `yaml` or `ym1`
- Data Formats
 - Simple/Scalar
 - text
 - number
 - boolean
 - Complex
 - list/array
 - object/dictionary/map
- YAML is collection of key value (name value) pairs
- Each key value is represented as

```
<key>: <value>
```

- Text

```
name: Docker
name: "Docker"
name: 'Docker'
```

- Number

```
version: 24.1
```

- boolean

```
WindowsSupport: true
WindowsSupport: yes
```

- List/array

```
tools: ["Docker", "k8s", "Terraform"]
tools:
  - Docker
  - k8s
  - Terraform
```

- map or object

```
address:
  flatno: 601
  building: nilgiri
  city: Hyderabad
```

- Example-1

```
---
name: DevOps
tools:
  - Docker
  - k8s
  - Terraform
  - Azure DevOps
  - Jenkins
details:
  duration: 110
  timings: "7-8:30"
```

- When we use yaml for some tools, they define structure

```
name: <text>
tools: array<text>
details: Details

Details:
  duration: number
  timings: text
```

- Lets try creating a yaml file based on specification for resume

```
name: type(text)
contact: type(Contact)
careerobjective: text
tools: array(text)
workexperiences: array(workexperience)

Contact
  phonenumber: text
  emailid: text
  github: text

workexperience
  company: text
```

```

designation: text
duration: text
roles: array(text)

```

- Example

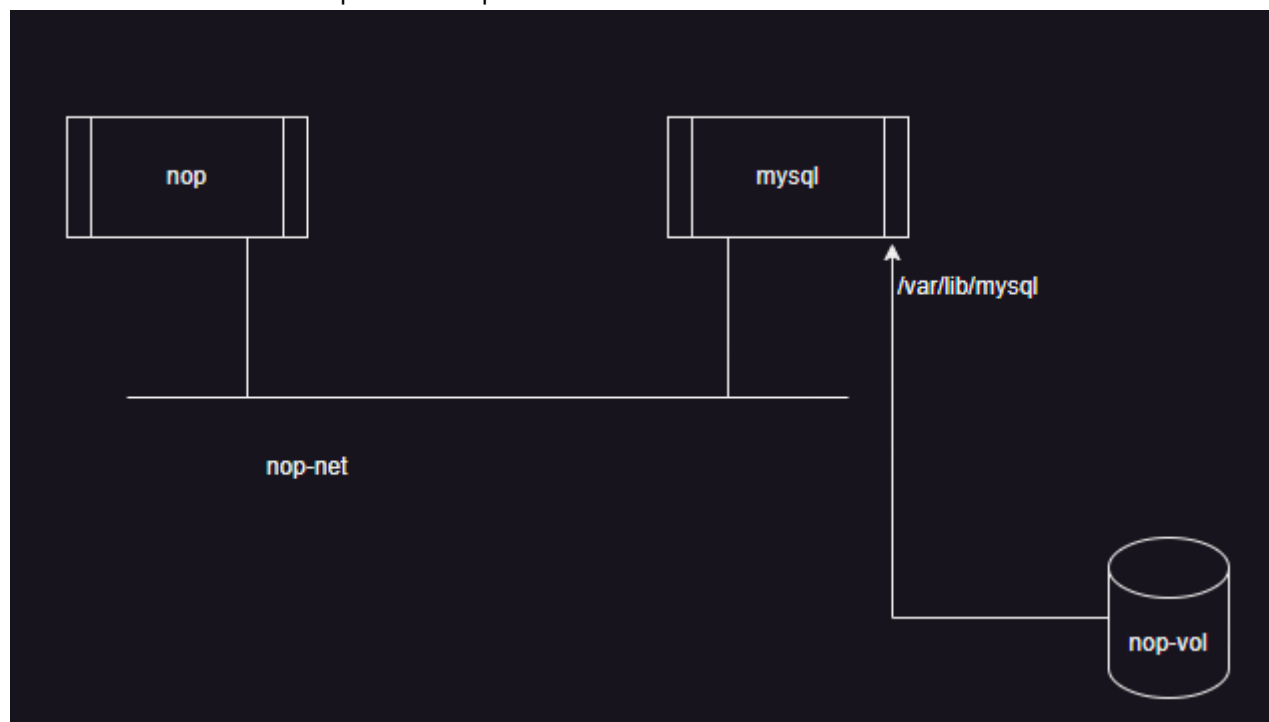
```

---
name: jarvis
contact:
  phonenumber: "999999999"
  emailid: jarvis@gmail.com
  github: github.com/jarvis
workexperience:
  - company: stark enterprises
    designation: pa
    duration: "2000-2019"
    roles:
      - helped tony stark

```

Docker compose

- reference: [Refer Here](#)
- [Refer Here](#) for docker-compose for nopcommerce



- clone the code and run the application

```

git clone https://github.com/dummyrepos/nopCommerce.git
cd nopCommerce
docker compose up -d

```

- now inspect containers, networks, volumes and images

```
Windows PowerShell X learningthoughts@docker-mi X + v
learningthoughts@docker-machine:~/nopCommerce$ docker container ls
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
8c4a61bc7e51   mysql:8.0-debian "docker-entrypoint.s..." 18 seconds ago Up 16 seconds 3306/tcp, 33060/tcp  nopcommerce-nopdb-1
99f9531a57f5   nopcommerce-nop "dotnet Nop.Web.dll ..." 18 seconds ago Up 16 seconds 5000/tcp  nopcommerce-nop-1
learningthoughts@docker-machine:~/nopCommerce$ docker volume ls
DRIVER    VOLUME NAME
local     nopcommerce_nop-vol
learningthoughts@docker-machine:~/nopCommerce$ docker network ls
NETWORK ID    NAME        DRIVER    SCOPE
033702da2708  bridge     bridge    local
19b099ce58ae  host       host      local
0cc91e12f576  none       null      local
c5e6ded27eda  nopcommerce_nop-net  bridge    local
learningthoughts@docker-machine:~/nopCommerce$ docker image ls
REPOSITORY    TAG        IMAGE ID        CREATED        SIZE
nopcommerce-nop  latest     964374fadbf9    59 seconds ago  502MB
mysql          8.0-debian f24a8f68bd7a    5 weeks ago    611MB
learningthoughts@docker-machine:~/nopCommerce$
```

- Dockerignore [Refer Here](#)
- [Refer Here](#) for changes to expose the port and docker ignore file