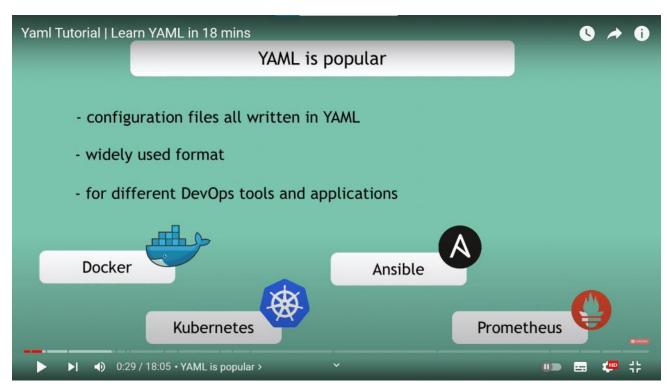
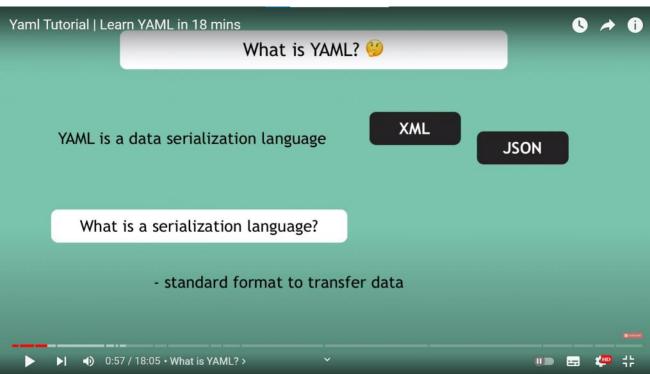


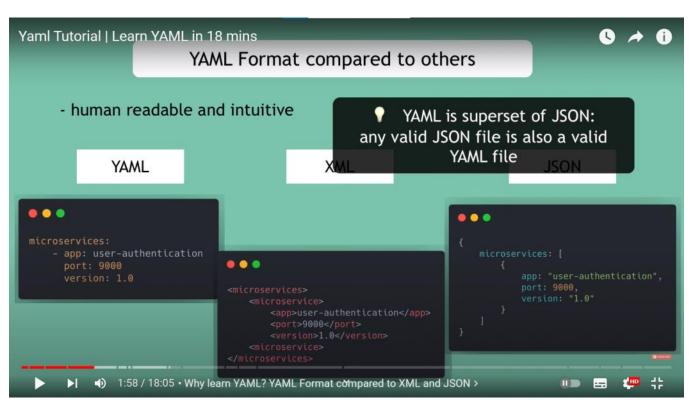
Thursday, October 12, 2023

4:44 PM





YAML Ain't Markup Language File extension: .yaml .yml

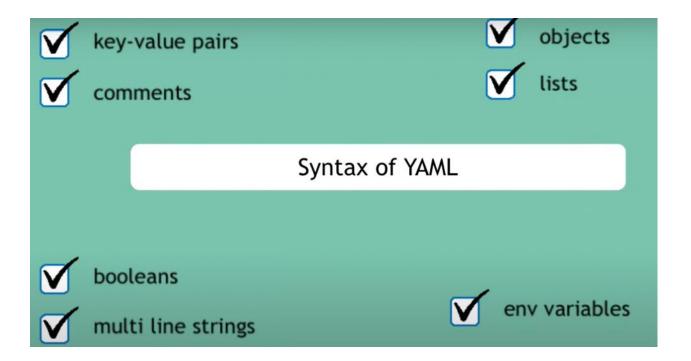




YAML Use Cases

- hosts: databases remote_user: root tasks: - name: ensure postgresql is at the latest version yum: name: postgresql state: latest - name: ensure that postgresql is started service: name: postgresql state: started

```
ApiVersion: apps/v1
kind: Deployment
metadata:
   name: nginx-deployment
labels:
   app: nginx
spec:
   replicas: 3
   selector:
   matchLabels:
   app: nginx
template:
   metadata:
   labels:
```



KEY-VALUE PAIRS:

```
app: user-authentication
port: 9000
version: 1.7
```

COMMENTS:

```
# comment here
app: user-authentication
port: 9000
# comment here
```

OBJECTS:

```
microservice:
app: user-authentication
port: 9000
version: 1.7
```

NOTE: HERE, microservice is object attribute

LISTS:

```
microservices:
- app: user-authentication
| port: 9000
| version: 1.7
```

- IS used to indicate list of objects .

```
microservices:
- app: user-authentication
port: 9000
version: 1.7
- app: shopping-cart
port: 9002
version: 1.9
```

Shopping-cart /user-authentication are objects of lists

```
microservices:
- user-authentication
- shopping-cart
```

List of names

```
versions:
- 1.9
- 2.0
- 2.1
```

Or

```
- app: shopping-cart port: 9002 versions: [1], 9, 2.0, 2.1]
```

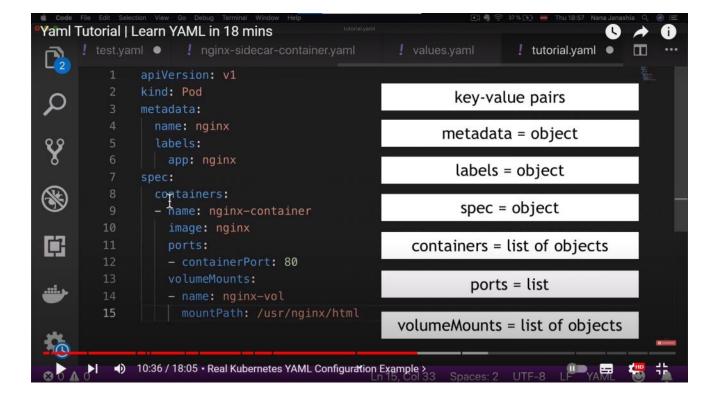
List of versions

BOOLEAN:

```
- app: user-authentication
  port: 9000
  version: 1.7
  deployed: true
```

Deployed: true/false or ON/OFF or YES/NO, here indicates boolean

KUBERNETES POD CONFIGURATION EXAMPLE:



MULTILINE STRING

```
multilineString: |
this is a multiline string
and this is the next line
next line
```

REPRESENTING MULTILINE IN ONE LINE:

```
multilineString: >
this is a single line string,
that should be all on one line.
some other stuff
```

KEEPING SHELL SCRIPT IN YAML CONFIG FILE AND EXECUTING USING MULTILINE:

```
command:
   - sh
   - -c
   - |
    #!/usr/bin/env bash -e
    http () {
        local path="${1}"
        set -- -XGET -s --fail
        # some more stuff here
        cu*l -k "$@" "http://localhost:5601${path}"
    }
    http "/app/kibana"
```

ENVIRON VARIABLE USING \$ SIGN:

```
# readiness probe
command:
    - /bin/sh
    - -ec
    - >-
    mysql -h 127.0.0.1 -u root -psitySQL_ROOT_PASSWORD -e 'SELECT 1'
```

USING PLACEHOLDER IN YAML:

```
metadata:
    name: {{ .Values.service.name }}
spec:
```

MULTIPLE YAML DOCS IN SINGLE YAML FILE USING ---:

YAML and JSON in Kubernetes



- You can use YAML or JSON

JSON

YAML

```
kind: ReplicationController
apiVersion: v1
metadata:
   name: spark-master-controller
spec:
   replicas: 1
   selector:
      component: spark-master
template:
   metadata:
   labels:
```

```
{
  kind: 'ReplicationController',
   apiVersion: 'v1',
  metadata: {
    name: 'spark-master-controller',
  },
  spec: {
    replicas: 1,
    selector: {
      component: 'spark-master',
    },
  template: {
      metadata: {
      labels: {
        component: 'spark-master',
    }
}
```