Task

In Dynatrace, so-called [Management Zones](#) shall be configured via the [API](#) in a configuration-as-code approach.

Provide a

- Python3 CLI-application that
- accepts a filename as input and expects a YAML-file in the style of the provided example `.yml` file
- uses the Dynatrace API such that for each `team` as specified by the yaml file
  - creates a `Management Zone` in Dynatrace with the `team` 's entry's dictionary key as name if no such MZ already exists or
  - updates the respective `Management Zone` if it already exists
  - and deletes all existing rules and creates a `Rule` (cf. https://www.dynatrace.com/support/help/how-to-use-dynatrace/management-zones/set-up-management-zones/; see also the `rules` property of management zones in the DT API documentation) for each entry in the `host-group-prefixes` List (if provided) of the `team` dictionary with the following payload scheme:

```
{'type': 'PROCESS_GROUP',
  'enabled': True,
  'propagationTypes': ['PROCESS_GROUP_TO_SERVICE',
'PROCESS_GROUP_TO_HOST'],
  'conditions': [{'key': {'attribute': 'HOST_GROUP_NAME'},
    'comparisonInfo': {'type': 'STRING',
     'operator': 'BEGINS_WITH',
     'value': <hostgroup-prefix>,
     'negate': False,
     'caseSensitive': True}}]}
```

where is to be replaced by the respective list entry.

Resources

- You should first get yourself a trial Dynatrace tenant: https://www.dynatrace.com/trial/
- In you trial tenant you will need to generate an Access Token for API usage (check official Dynatrace docs for more details)
- The example yaml file has the following content:

```yaml
tenant_id: zxf97648
teams:
  global-pcf-a:
    cost-center: ct-4291
    entity: ab-3
    host-group-prefixes:
      - global-pcf-a-Z
      - global-pcf-a-Y
  global-pcf-b:
    cost-center: ct-4291
    entity: ab-3
```