

# support-reporting-level1

December 17, 2024

## 0.1 load data

- root: location of the csv files.
- fromDt and toDt are start and end dates for range

```
[1]: import sys
sys.path.append('../')

import dataframeLoader as dfl
import pandas as pd

from importlib import reload
reload(dfl)

# Provide csv data location and appliance and timerange information.
root = '.././.dataDir'
fromDt = '2024-11-10'
toDt = '2024-12-10'

# Provide list of prometheus metrics to load.
# metricsArr = ['cpu_used', 'download_workers_count', 'memory_used',
↳ 'task_queue_length', 'infra_access_latency', 'pod_cpu_usage',
↳ 'pod_memory_usage']
metricsArr = ['cpu_used'
              , 'task_queue_length'
              , 'memory_used'
              ]

daterange=[fromDt, toDt]
df = dfl.loadApplianceTimeSeriesData(root, metricsArr, daterange)
```

loading Unstrctured Data from file: SCANPROC-\*.csv

loading Strctured Data from file: STRUCTURED-\*.csv

processing securiti\_appliance\_cpu\_used-max\*.csv

processing securiti\_appliance\_cpu\_used-avg\*.csv

processing securiti\_appliance\_task\_queue\_length-max\*.csv

```
processing securiti_appliance_task_queue_length-avg*.csv
/Users/amitgupta/code/jupyter-python-local-venv/examples/timeseries
reporting/./dataframeLoader.py:43: ParserWarning: Skipping line 232: expected 7
fields, saw 11
```

```
df = pd.read_csv(os.path.join(path, name), on_bad_lines='warn')
processing securiti_appliance_memory_used-max*.csv
processing securiti_appliance_memory_used-avg*.csv
loading Unstrctured Data from file: UNSTRUCTURED-*.csv
```

```
[2]: display(df)
      print(df.metrics.unique())
```

|         | appliance_id                         | ts \                |
|---------|--------------------------------------|---------------------|
| 0       | 01c75278-9c0d-41be-b693-c970b18dbedc | 2024-11-10 00:00:00 |
| 1       | 01c75278-9c0d-41be-b693-c970b18dbedc | 2024-11-10 00:00:00 |
| 2       | 01c75278-9c0d-41be-b693-c970b18dbedc | 2024-11-10 01:00:00 |
| 3       | 01c75278-9c0d-41be-b693-c970b18dbedc | 2024-11-10 01:00:00 |
| 4       | 01c75278-9c0d-41be-b693-c970b18dbedc | 2024-11-10 02:00:00 |
| ...     | ...                                  | ...                 |
| 3401636 | ff0afca2-5070-4f49-8c4d-53a96baee027 | 2024-12-08 13:00:00 |
| 3401637 | ff0afca2-5070-4f49-8c4d-53a96baee027 | 2024-12-09 07:00:00 |
| 3401638 | ff0afca2-5070-4f49-8c4d-53a96baee027 | 2024-12-09 07:00:00 |
| 3401639 | ff0afca2-5070-4f49-8c4d-53a96baee027 | 2024-12-09 12:00:00 |
| 3401640 | ff0afca2-5070-4f49-8c4d-53a96baee027 | 2024-12-09 12:00:00 |

|         | legend       | metrics               | value     |
|---------|--------------|-----------------------|-----------|
| 0       | 172.30.9.154 | cpu_used_max          | 63.980000 |
| 1       | 172.30.9.157 | cpu_used_max          | 92.830000 |
| 2       | 172.30.9.154 | cpu_used_max          | 61.170000 |
| 3       | 172.30.9.157 | cpu_used_max          | 98.290000 |
| 4       | 172.30.9.154 | cpu_used_max          | 47.620000 |
| ...     | ...          | ...                   | ...       |
| 3401636 | s3_2452      | fileDownloadTimeInHrs | 0.011391  |
| 3401637 | s3_2359      | fileDownloadTimeInHrs | 0.003330  |
| 3401638 | s3_2360      | fileDownloadTimeInHrs | 0.002996  |
| 3401639 | nan_2456     | fileDownloadTimeInHrs | 0.011397  |
| 3401640 | s3_2452      | fileDownloadTimeInHrs | 0.009610  |

```
[3297712 rows x 5 columns]
```

```
['cpu_used_max' 'cpu_used_avg' 'task_queue_length_max'
'task_queue_length_avg' 'memory_used_max' 'memory_used_avg'
'dataScannedinGB' 'scanTimeInHrs' 'IdleTimeInHrs' 'numFilesScanned'
'uniquPodCount' 'avgFileSizeInMB' 'numberOfColsScanned'
'numberOfChunksScanned' 'fileDownloadTimeInHrs']
```

## 0.2 Generate plotly report

- `appliance_id`: unique identifier of the appliance.

```
[3]: reload(df1)
      appliance_id='58e98e10-1b19-4c84-93c0-db2ad5903b80'
      fromDate = '2024-11-23'
      toDate = '2024-11-29'
      dfp = df[(df['ts']).between(fromDate, toDate, inclusive='both')]
      fig = df1.plotMetricsFacetForApplianceId(dfp, appliance_id)
      fig.show()
```