N'osairis Technology

Software Engineer Assessment

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Github: https://github.com/arhamrizvi/Ping-Report-System (Code & other docs)

This assessment is divided into 2 parts:

- 1. MySQL
- 2. Python Web Application (Made using Flask Framework)

1. MySQL

The Database (terminals) and Table (data_terminals) are created in MySQL Workbench and the Create Script can be found in the github link attached below: https://github.com/arhamrizvi/Ping-Report-System

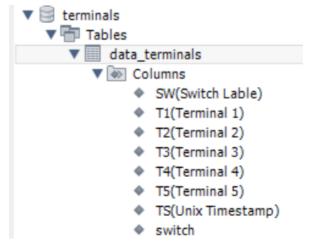


Figure 1.0: Create Database, Table

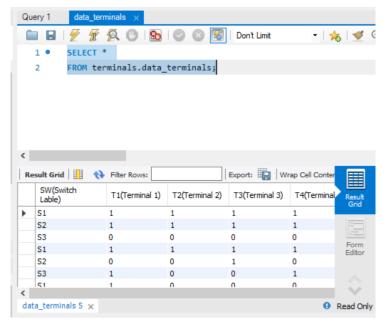


Figure 1.1: Importing the csv data into the table

2. Python Web Application

Technology used: Flask Framework, bokeh (for charts), pandas for data manipulation, HTML, CSS, JavaScript

The ping report is divided into 2 parts:

- 1. Charts on a span of 12 hours describing where Ping Availability of the 3 switches
- 2. Alert page to report the pings that were lost

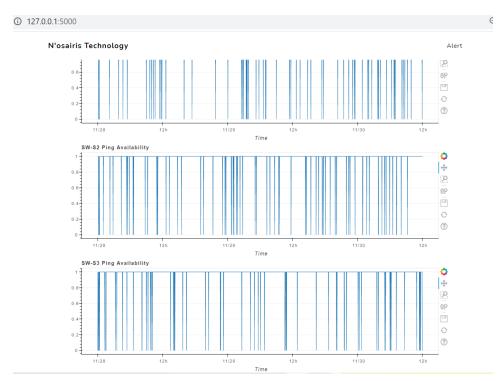


Figure 2.0: Ping Availability Screen

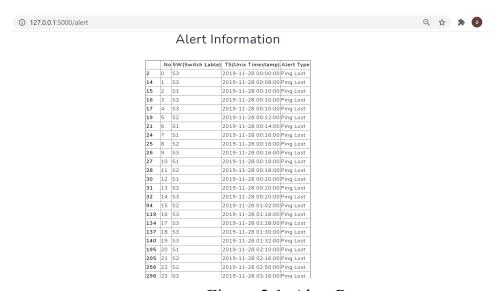


Figure 2.1: Alert Report