Monitoring User and Application Metrics using Prometheus

**Introduction**

This document describes how to monitor user and application metrics using Prometheus in Python. The script leverages the `prometheus\_client` library to expose metrics such as the number of users in the system and the active and previously used applications.

**Prerequisites**

Ensure you have the following installed:

* 1. Python 3.x
* 2. Prometheus
* 3. The `prometheus\_client`, `win32com.client`, `pygetwindow`, and `getpass` Python packages

**Installation**

1. Install Python packages:

pip install prometheus\_client pywin32 pygetwindow

2. Download and set up Prometheus from the official website.

**How to Use**

1. Run the Python script.

2. Open a browser and navigate to `http://localhost:8001` to see the metrics.

3. Configure Prometheus to scrape metrics from this endpoint.

4. You can visualize these metrics using Grafana or the Prometheus UI.