

Department Of Internetworking Dalhousie University





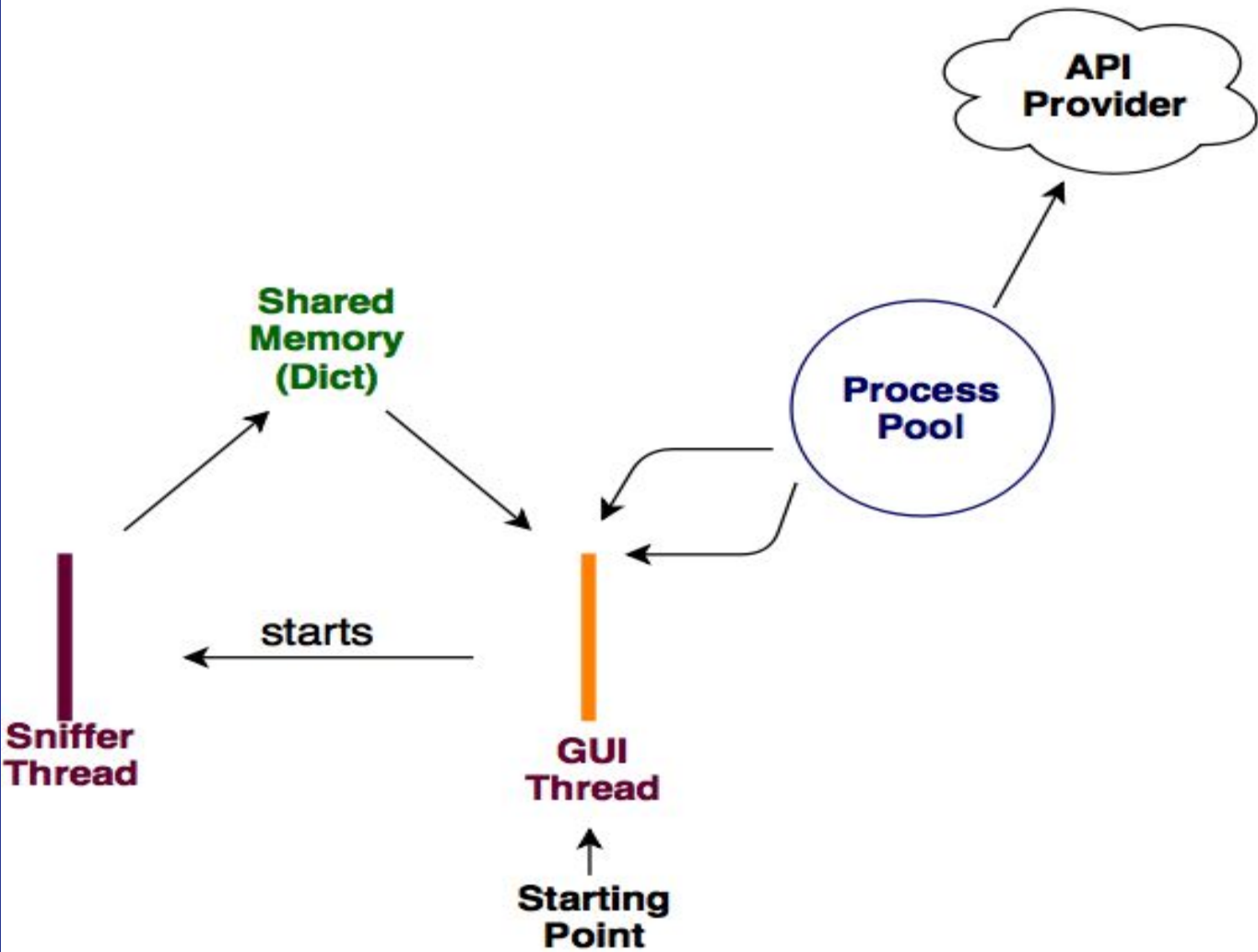
Connection Visualizer

What?

Connection Visualizer is **Multi-threaded GUI** application built using Python-3 for visualizing all the connections the system has made or trying to make with any system.

How?

- Threading
- AsyncIO using Futures from Concurrent package
- Custom Collection i.e Expiring Dictionary
- Tkinter for gui
- Coding Style - OOP's



- Threading
- Async IO
- Expiring Dictionary
- Tkinter

Why?

- User Friendly with nice gui.
- Information is shown in more understandable format by showing country, state, city and organization name.

Libraries and API's

- Sockets
- Threading
- Futures from concurrent
- Requests
- Netifaces
- <https://extreme-ip-lookup.com/>

References

- Packet Sniffing code is referred from <https://www.binarytides.com/python-packet-sniffer-code-linux/>
- API used in application is <http://extreme-ip-lookup.com/json/>
- Database is taken from IP2Location service
- TKinter Official Documentation
- Python-3 Official Documentation