

Discovering Network Topology Project Milestones

September 26, 2023 2:53pm - Initial Commit; created GitHub repository

October 1, 2023 6:17pm - Uploaded discovering-topology.py traceroute program

October 11, 2023 11:55am - Edited discovering-topology.py to take destination IP address as command line argument instead of variable within program

October 23, 2023 10:47am - Development of topology-graphing.p to do traceroute + graphing

October 24, 2023 9:46pm - Split traceroute (topology-tracing.py) and graphing (topology-graphing.py) into separate files

October 25, 2023 1:49pm - Bug fixes for topology-tracing.py (append vs overwrite json) and topology-graphing.py (no looping)

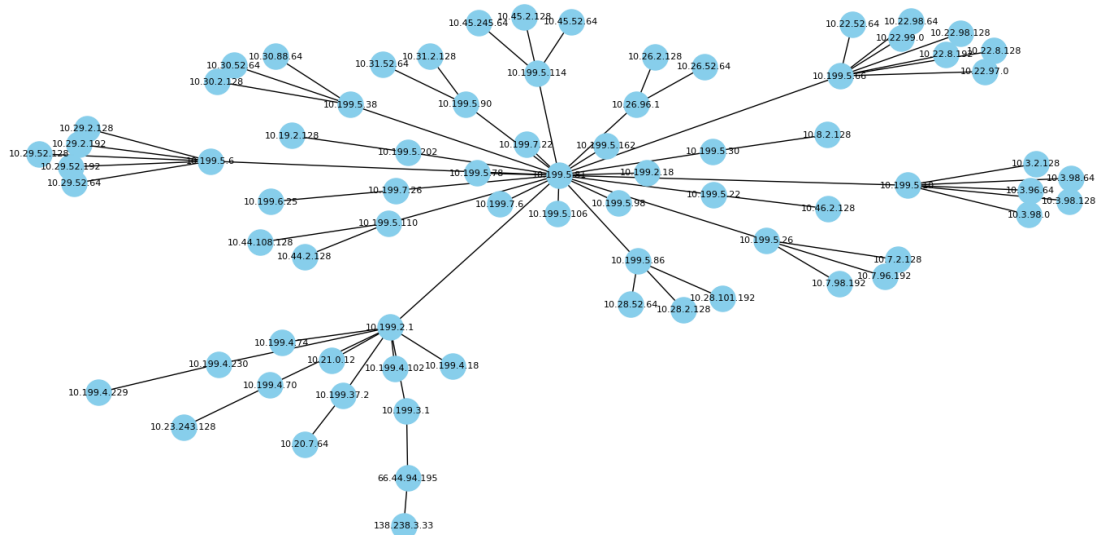
October 25, 2023 2:04pm - Allow start and end ip range to be supplied in cmd line for topology-tracing.py

October 25, 2023 2:16pm - Development of sub.py to run subprocesses of topology-tracing.py based on supplied ip ranges

October 25, 2023 5:52pm - Discovery of the Lewis K Downing topology fragment

```
{
  "138.238.0.0": [
    {
      "hop": 1,
      "ip": "10.26.96.1"
    },
    {
      "hop": 2,
      "ip": "10.199.5.81"
    },
    {
      "hop": 3,
      "ip": "10.199.2.1"
    },
    {
      "hop": 4,
      "ip": "10.199.3.1"
    },
    {
      "hop": 5,
      "ip": "66.44.94.195"
    },
    {
      "hop": 6,
      "ip": "138.238.3.33"
    }
  ],
}
```

Full program output



Bethany Abebe @03005444

October 25, 2023 7:16pm - Discovery of the Undergraduate Library topology fragment

```

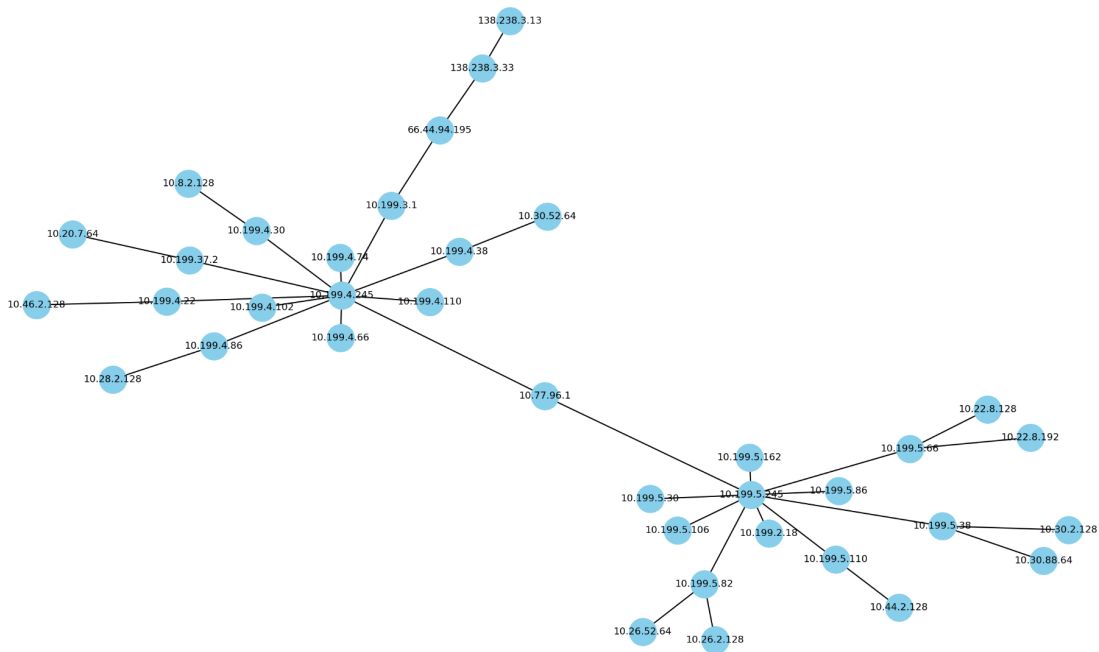
1      {
2          "138.238.0.0": [
3              {
4                  "hop": 1,
5                  "ip": "10.61.96.1"
6              },
7              {
8                  "hop": 2,
9                  "ip": "10.199.4.141"
10             },
11             {
12                 "hop": 3,
13                 "ip": "10.199.3.1"
14             },
15             {
16                 "hop": 4,
17                 "ip": "66.44.94.195"
18             },
19             {
20                 "hop": 5,
21                 "ip": "138.238.3.33"
22             },
23             {
24                 "hop": 6,
25                 "ip": "138.238.3.13"
26             }
27         ],
28         "138.238.0.1": [
29             {

```

[Full program output](#)

October 25, 2023 8:03pm - Discover of the School of Business topology fragment

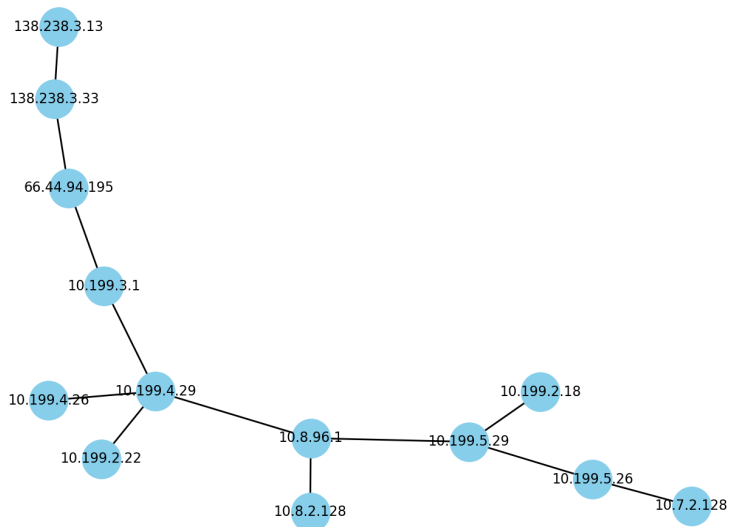
October 25, 2023 10:57pm - Discover of the Health Science Undergraduate Library fragment



Aneika Stewart @03045858

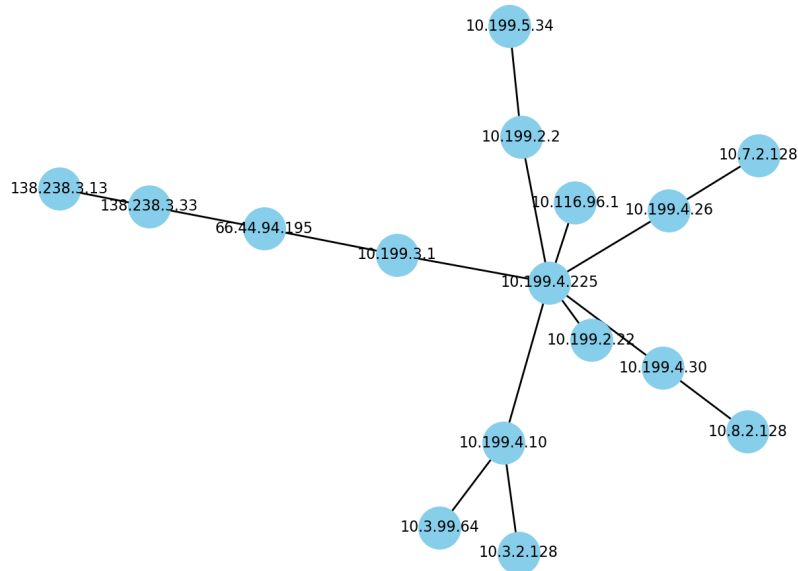
October 25, 2023 3:05pm - Discovery of the Burr Gymnasium and Burr Offices topology

fragment - Kaniyah Harris @02963919



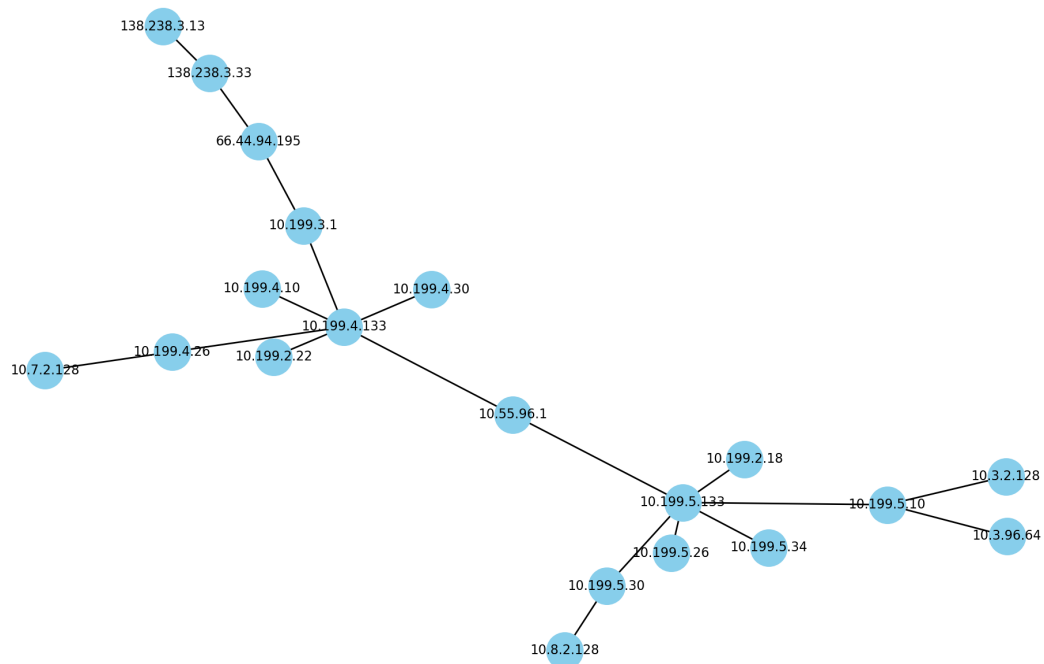
October 25, 2023 6:56pm - Discover of the Chemistry topology fragment - Kaniyah Harris

@02963919

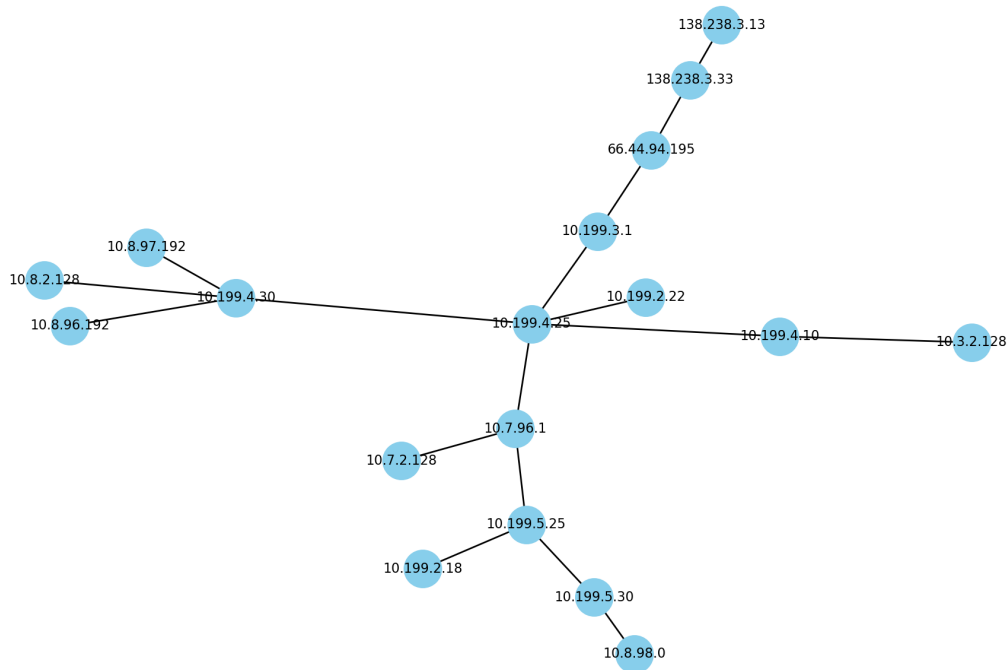


October 25, 2023 7:58pm - Discovery of the Physics topology fragment - Kaniyah Harris

@02963919

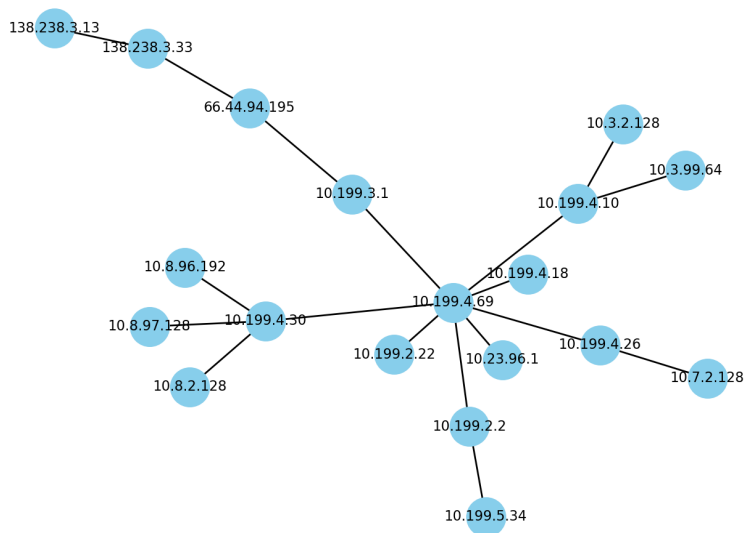


@02963919



October 26, 2023 12:30 pm - Discovery of Douglass Hall topology fragment

Output

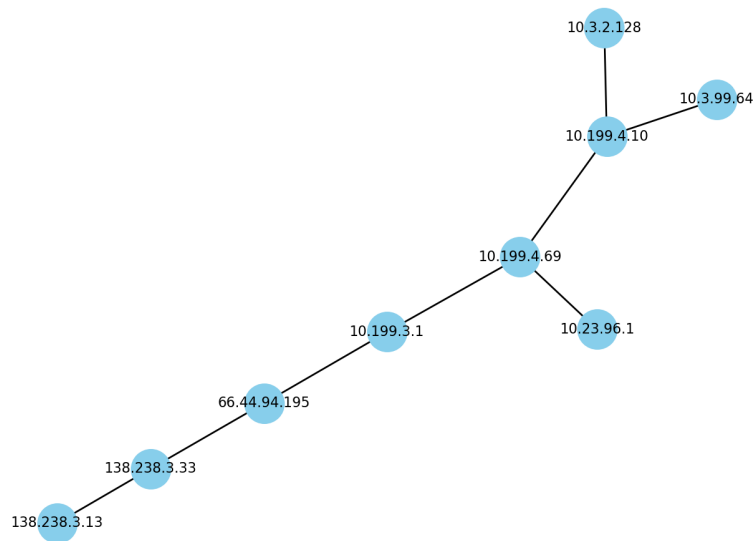


Aniya Wilson @02972281

October 26, 2023 1:00 pm - Discovery of Armour J Blackburn University Center topology

fragment

[Output](#)



Aniya Wilson @02972281