

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



[Full program output](#)

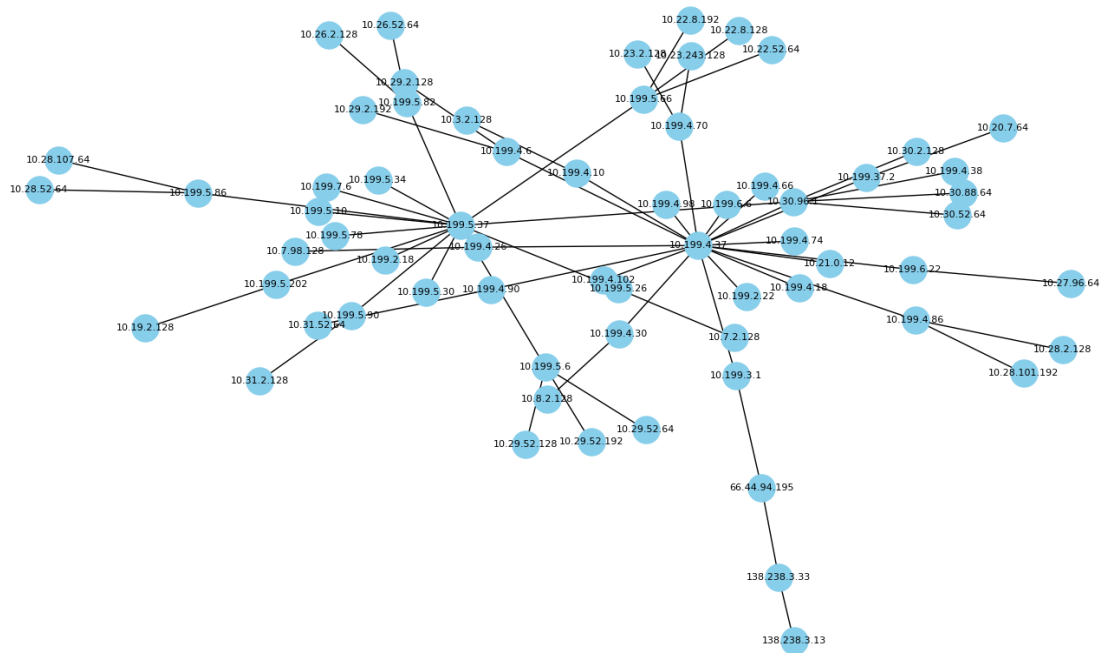
```

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        {

```



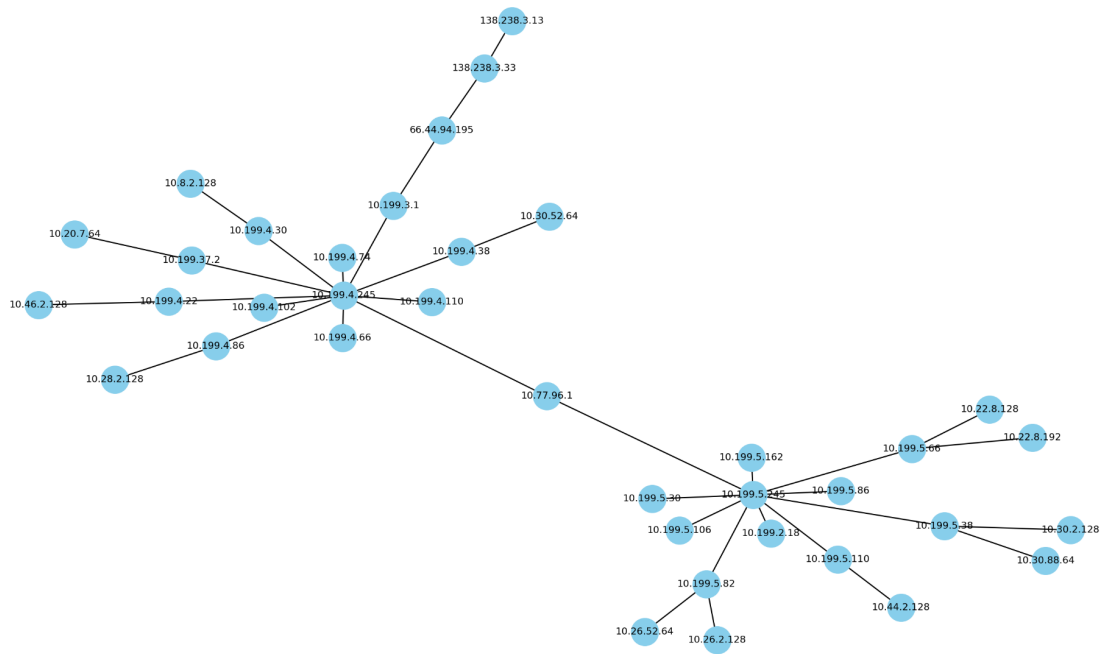
October 25, 2023 8:03pm - Discover of the School of Business topology fragment



Aneika Stewart @03045858

Output

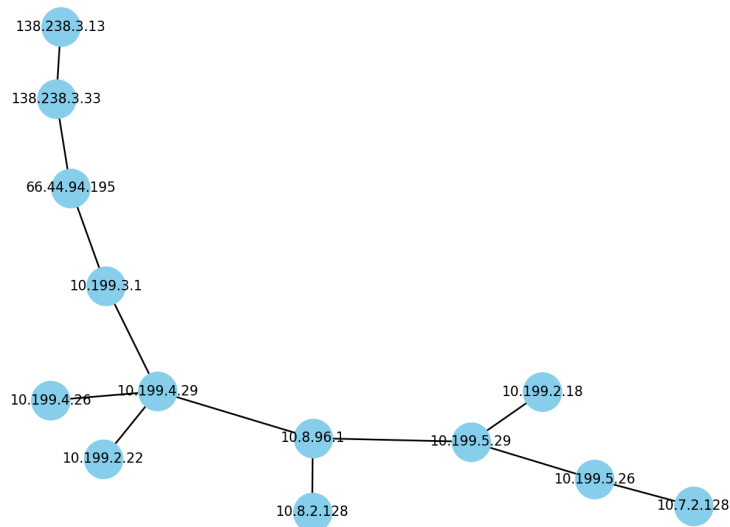
October 25, 2023 10:57pm - Discover of the Health Science Undergraduate Library fragment



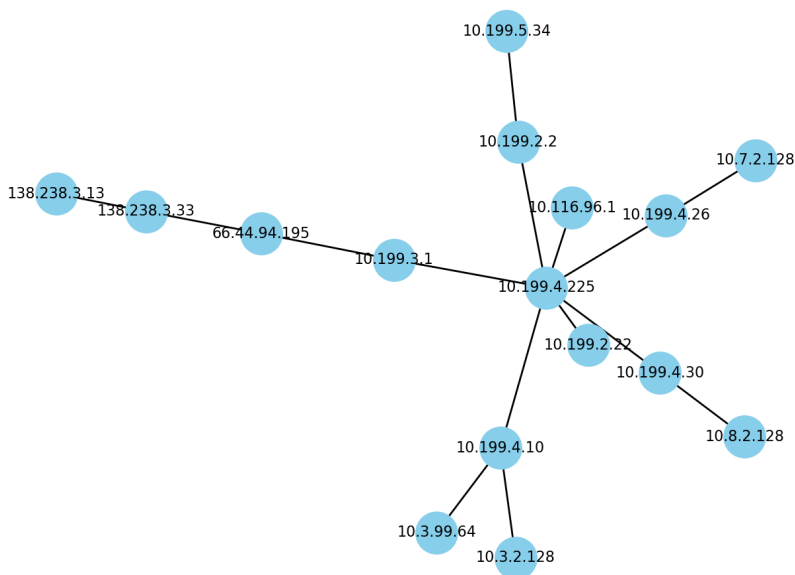
Aneika Stewart @03045858

[Output](#)

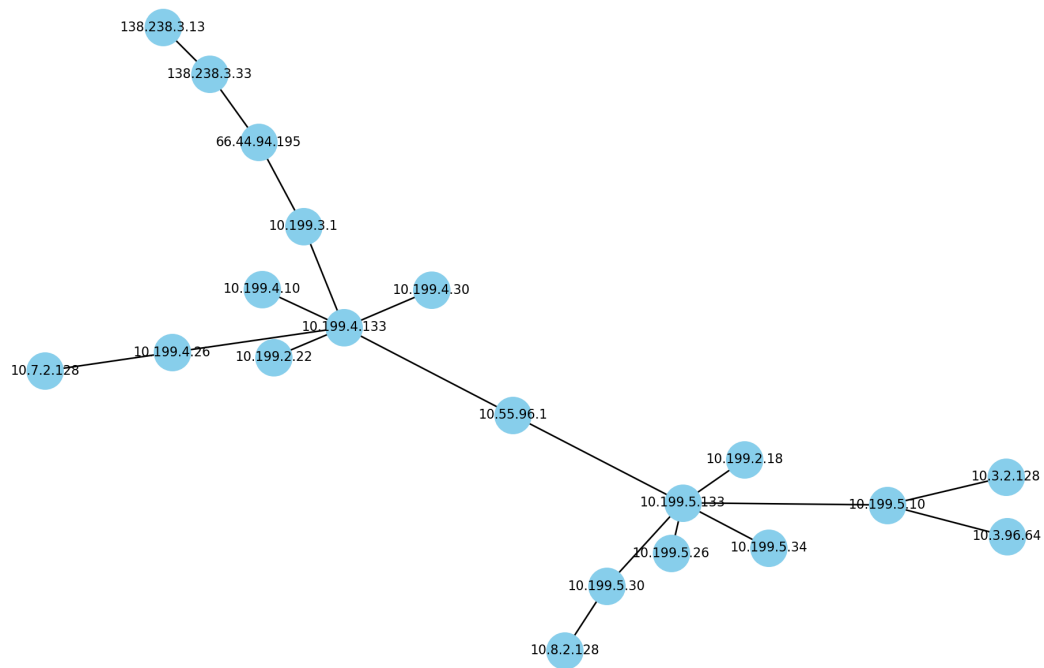
October 25, 2023 3:05pm - Discovery of the Burr Gymnasium and Burr Offices topology fragment - Kaniyah Harris @02963919



October 25, 2023 6:56pm - Discover of the Chemistry topology fragment - Kaniyah Harris @02963919

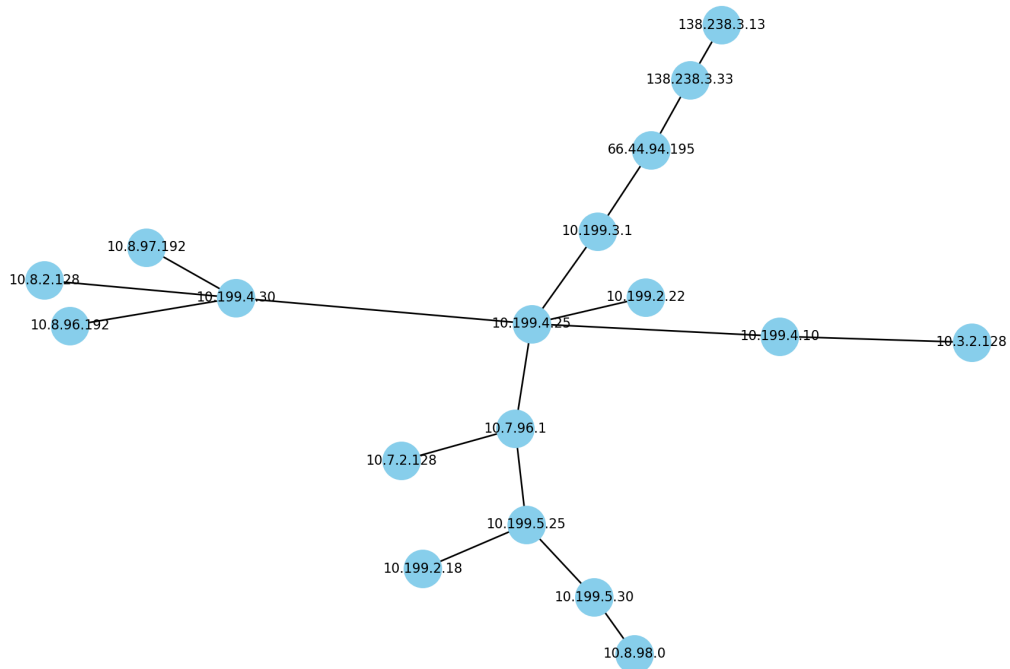


October 25, 2023 7:58pm - Discovery of the Physics topology fragment - Kaniyah Harris @02963919



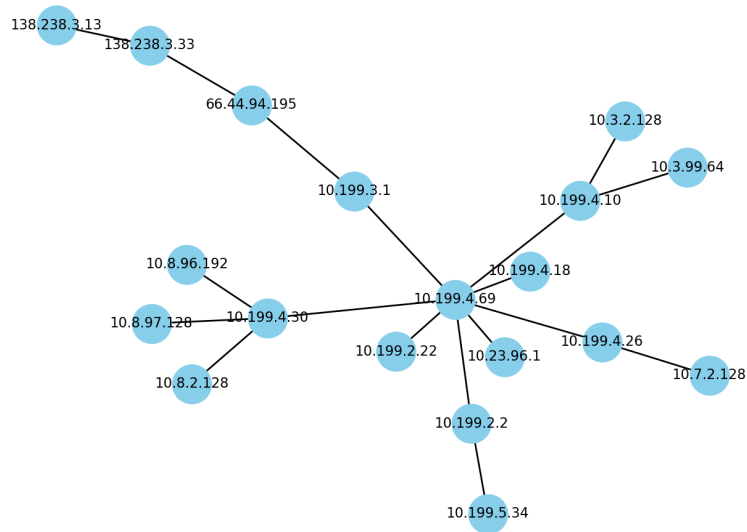
October 25, 2023 5:02pm - Discovery of the Biology topology fragment - Kaniyah Harris

@02963919



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

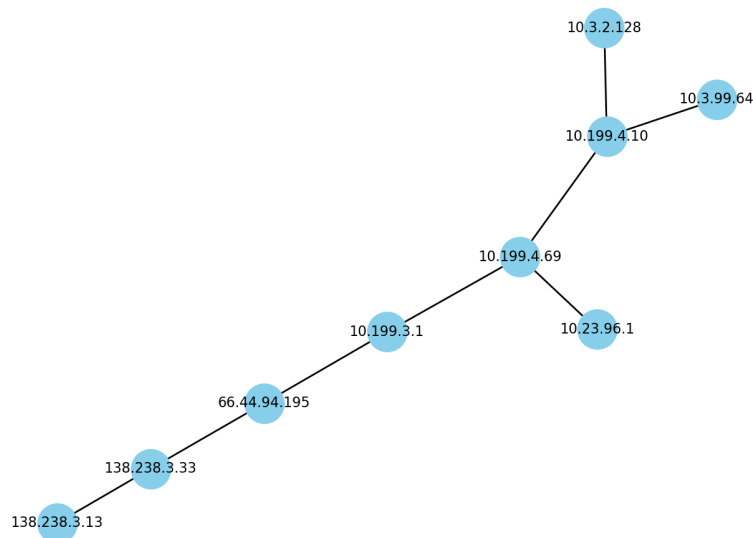
[Output](#)



Aniya Wilson @02972281

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

[Output](#)



Aniya Wilson @02972281