

Safety and Security in IT Systems

Lab 10 - Secure Access Broker

Part 1: Setting Up the SAB (Twingate)

The screenshot shows a Chrome browser window with multiple tabs open. The active tab is 'anasmr16.twingate.com/networks/overview'. The page displays a network configuration interface with sections for 'Network' (Network, Team, Devices, Policies, Internet Security, Settings), 'Overview' (Resources, Remote Networks, Connectors), and user information ('A anasmr16 anasmr16.twingate.com'). Below this are 'Next Steps' (Add a Resource, Deploy a Connector, Download Twingate) and 'Explore Using Twingate at Home' (Follow Our Quick Start, Join Our Reddit, Protect Your Home Lab). At the bottom, there are sections for 'Your Network' (listing various icons) and 'Connection History' (with filters for 90 days, 30 days, 7 days).

Part 2: Deploy a Twingate Gateway on Your VM



Back to Remote Networks

Test

On Premise Remote Network

Create Resource Edit ...

Connectors

- evasive-mouse Not yet connected
- vagabond-marmoset Not yet connected

+ Add Connector

Resources

To Provide Access, Deploy a Connector

You need at least one Twingate Connector behind your firewall to connect to Resources. A second Connector is recommended to avoid downtime during Connector updates.

Deploy Connector Remote Network Guide



https://anasm16.twingate.com/connectors/Q29ubmVjdG9yOjU0NTMyNQ==?from=n...

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Twingate

Network Team Devices Policies Internet Security Settings

Back to Test

Status

- Controller Connected
- Relay Connected

evasive-mouse
Connected

Edit ...

Remote Network

Test

Connector Version

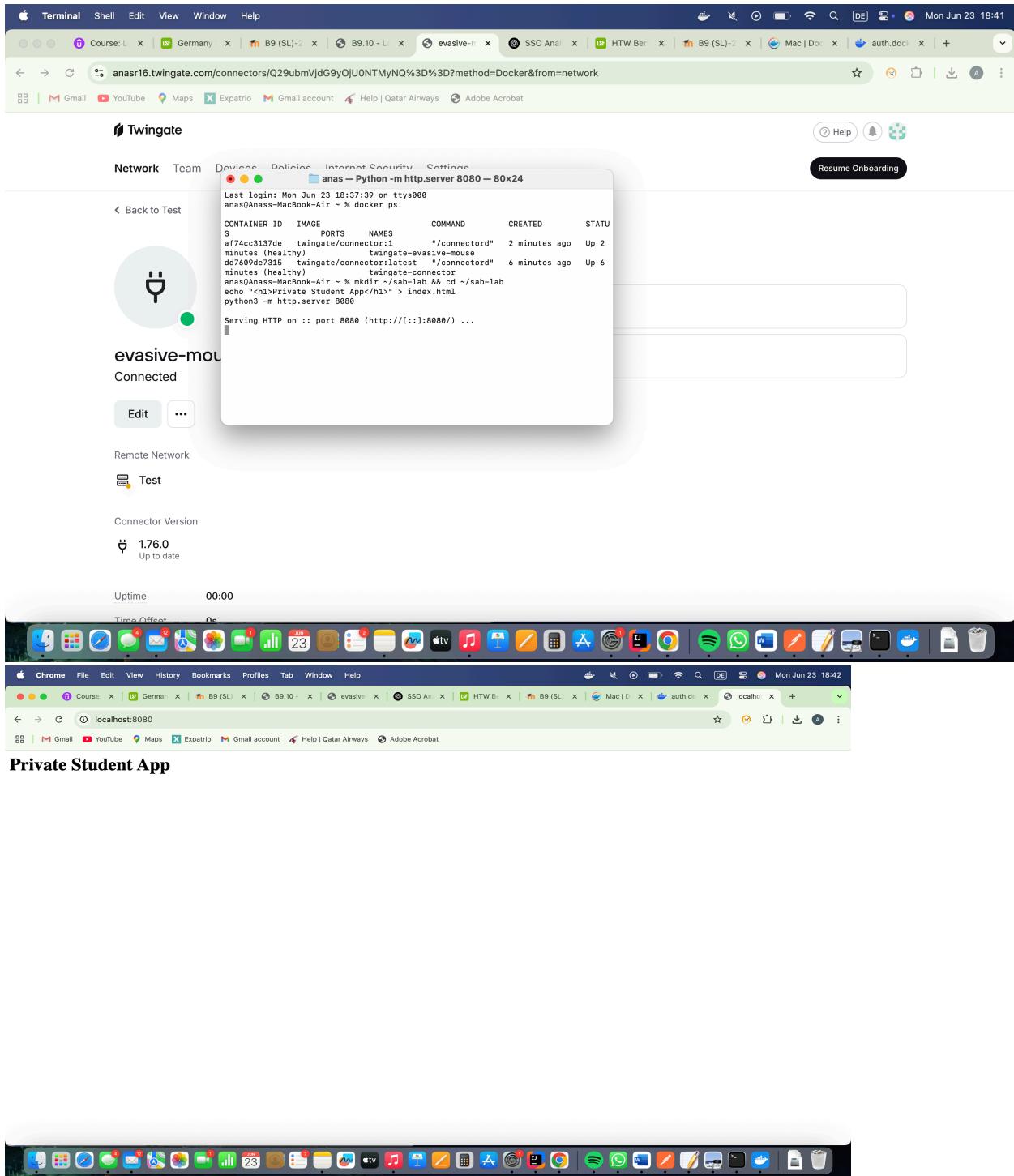
1.76.0 Up to date

Uptime 00:00

Time Offset 0s

```
[root@localhost ~]# ps aux | grep -i curl
root      10      0.0  0.0  1448  104 ? Ss   10:21 00:00 curl -N www.google.com
[...]
```

Part 3: Create a Private Web App

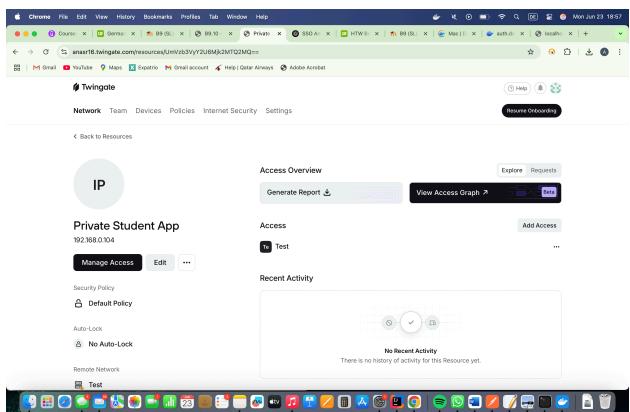


Part 4: Register the app as a twingate resource

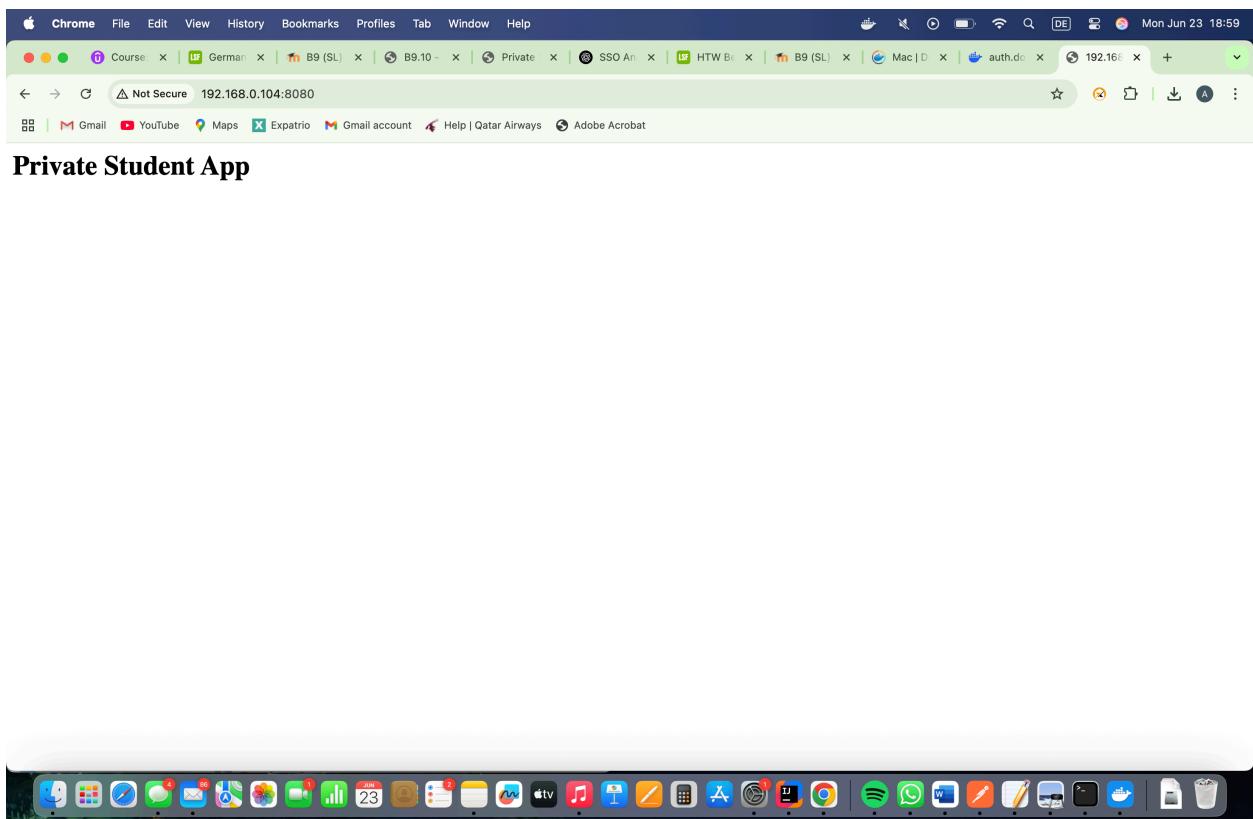
The screenshot shows a Chrome browser window on a Mac OS X desktop. The address bar displays `anrasr16.twingate.com/resources?sortBy=name`. The main content area is the Twingate interface, specifically the 'Resources' section. At the top, there are tabs for 'Overview', 'Resources' (which is selected), 'Remote Networks', and 'Connectors'. Below this, a search bar and filter options ('Tags', 'Status', 'Remote Network', 'Address Type') are visible. A table lists one resource: 'Private Student App...' with IP `192.168.0.104`, under 'Test' remote network, last updated 'just now'. A 'Tags' column shows three dots. A 'Resource' button is at the top right of the table. The Mac OS X dock is visible at the bottom, containing icons for various applications like Mail, Safari, and Finder.

◆ Part 5 – Access Policy Configuration

This screenshot shows the Twingate interface after navigating to a specific group. The address bar now shows `anrasr16.twingate.com/groups/R3JvdXA6Mzc1MDcz`. The main content area is titled 'Test' and shows '1 user'. A member is listed: 'anras.r16@hotmail.com' (Admin). There are buttons for 'Edit Group' and 'Add User'. Below this, 'Internet Security' and 'No DNS Filtering Profile' are listed. A note at the bottom indicates a scheduled maintenance window from July 20, 01:00-02:30 UTC. The Mac OS X dock is visible at the bottom.



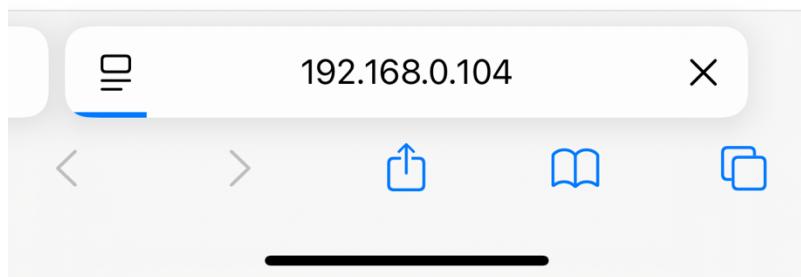
Part 6: Testing the policy enforcement



7:17

5G 68%

Safari couldn't open the page because
the server stopped responding.



Part 7: Review Logs

