Marauders Setup and Usage

Marauder is an autoevaluation tool for CC labs that will check your lab progress as you do it. This means you don't have to take any screenshots. Marauders also gives extremely detailed messages on what is not wokring in the lab for your specific machine which means smoother labs for you!

If there are any issues during the setup and running of marauders, please inform me at +918618950413
If you could whatsapp me the screenshot of errors, that would be super helpful thank you.

Note: make sure you have already installed Minikube and Kubectl using the "Lab 7: Kubernetes Setup Guide" document

Setup

IMORTANT NOTE: Make sure minikube is running before proceeding. You can check if minikube is running using `minikube status` and if it is not minikube can be ran using `minikube start` (Refer to the Kubernetes Installation doc for this)

You will need to setup the prerequisites

1. **Install bore tunnel based on your OS:**
    1. ### Windows

        Note: If you have an overcontrolling Antivirus/Firewall like McAfee, Please disable it for this part

        1. Download bore-v0.5.2-x86_64-pc-windows-msvc.zip from https://github.com/ekzhang/bore/releases
        2. Unzip the file to get a bore.exe file
        3. Copy the bore executable to %SYSTEMROOT%/System32 using File Explorer (OR you may manuatlly add the executable to PATH)
    2. ### MacOS

        1. Install the bore tunnel cli using:

            ```
            brew install bore-cli
            ```

            If you do have brew installed, install homebrew using the instructions at brew.sh
    3. ### Linux

        1. Download the bore-v0.5.2-x86_64-unknown-linux-musl.tar.gz file from https://github.com/ekzhang/bore/releases using:

            ```
            wget -O bore.tar.gz
            https://github.com/ekzhang/bore/releases/download/v0.5.2/bore-v0.5.2-x86_64-
            unknown-linux-musl.tar.gz
            ```

        2. Untar it using `tar -xvf bore.tar.gz`

3. Move bore to /usr/local/bin: `mv bore /usr/local/bin`

2. Check if bore is working by running by running:

```
bore local 5050 --to bore.smuz.me
```

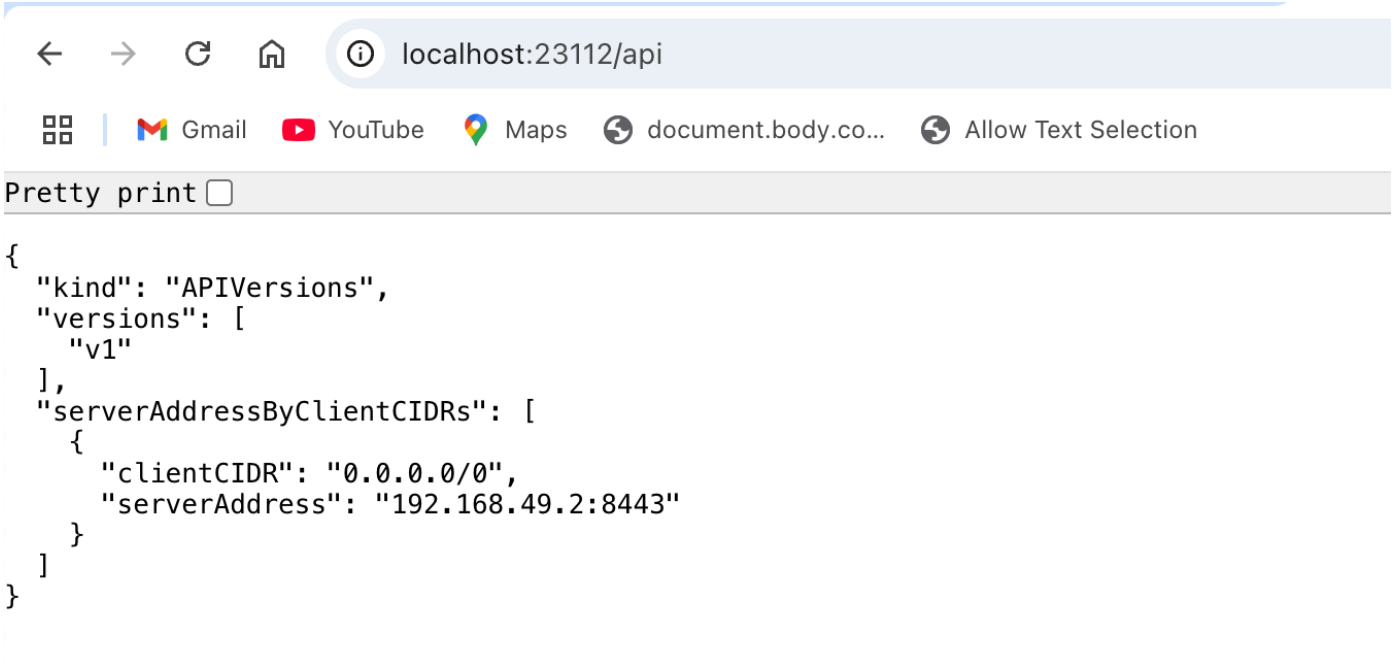
The output should look like this (You may Ctrl+C it after getting th eexpected output)

```
PS C:\Users\smaran> bore local 5050 --to bore.smuz.me
2025-02-12T16:02:59.298408Z  INFO bore_cli::client: connected to server remote_port=51555
2025-02-12T16:02:59.300397Z  INFO bore_cli::client: listening at bore.smuz.me:51555
```

3. Run the following command which exposes the Kubernetes API:

```
kubectl proxy --address 0.0.0.0 --port 23112 --accept-hosts ".*"
```

4. Open http://localhost:23112/api in your browser and check if you can get the following result:

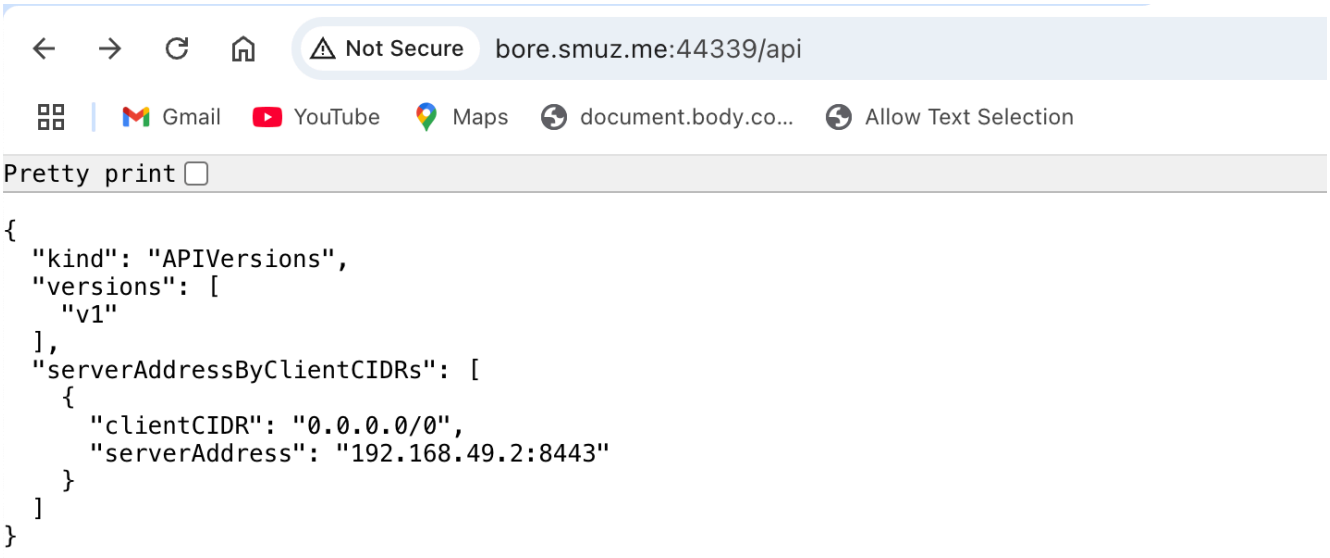


5. Expose the kube api over bore using: (make sure the command from step 5 is still running so run this in a seperate terminal)

```
bore local 23112 --to bore.smuz.me
```

```
smaran@Smarans-MacBook-Air CC-Lab7 % bore local 23112 --to bore.smuz.me
2025-02-27T20:40:51.542809Z  INFO bore_cli::client: connected to server remote_port=44339
2025-02-27T20:40:51.543141Z  INFO bore_cli::client: listening at bore.smuz.me:44339
```

6. Open http://<bore_url>/api in your browser and check if you can get the following result:




```
{
  "kind": "APIVersions",
  "versions": [
    "v1"
  ],
  "serverAddressByClientCIDRs": [
    {
      "clientCIDR": "0.0.0.0/0",
      "serverAddress": "192.168.49.2:8443"
    }
  ]
}
```


7. *Exit the terminals running step 3 and 5*

Running Marauders

1. Run the given `marauders.py` file using python. You might have to install the `requests` package if it doesn't already exist.
2. If you get a port 23112 already in use error while tryign to run step 1, run `pkill kubectl` on Mac/Linux and `taskkill -f -im kubectl*` on windows using powershell *running as administrator*