

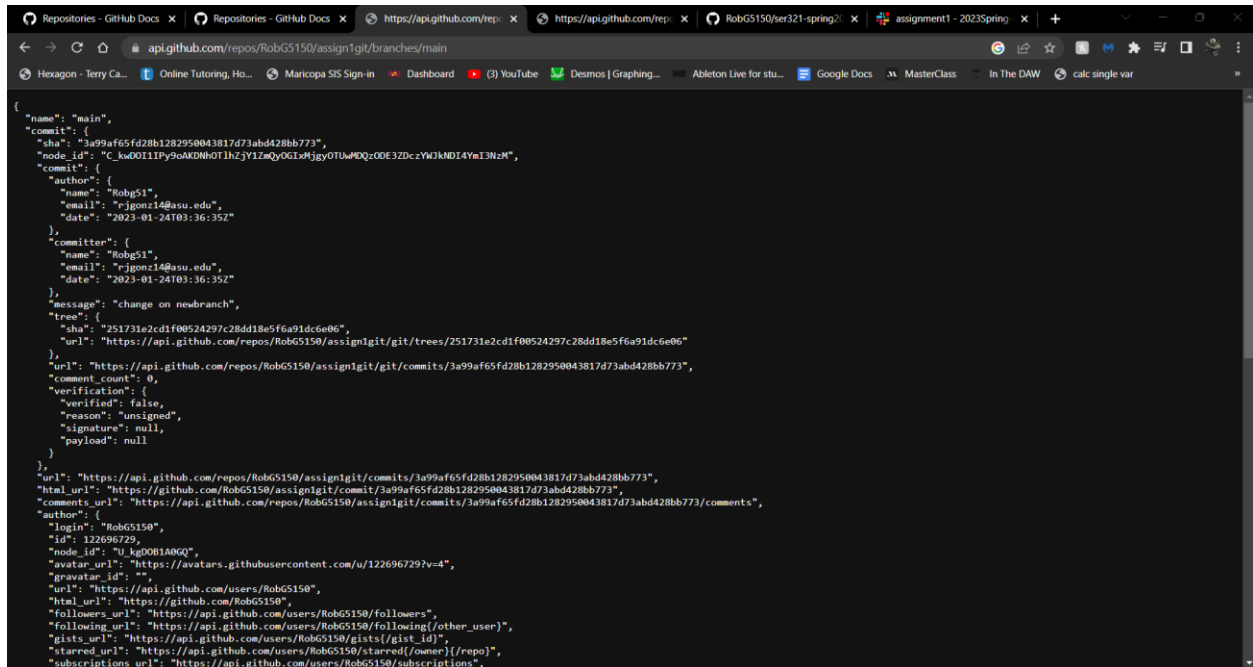
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Section 1 Part 1:

URL Used: <https://api.github.com/repos/RobG5150/assign1git/branches/main>



```
{
  "name": "main",
  "commit": {
    "sha": "3a99af65fd28b1282950043817d73abd428bb773",
    "node_id": "C_kwOOI1IPy9oAKDNH0T1hZjY1ZmQyOGExMjgyOTUwMDQzODE3ZDczYWJkNDI4YmI3NzN",
    "commit": {
      "author": {
        "name": "RobG51",
        "email": "rjgonz14@asu.edu",
        "date": "2023-01-24T03:36:35Z"
      },
      "committer": {
        "name": "RobG51",
        "email": "rjgonz14@asu.edu",
        "date": "2023-01-24T03:36:35Z"
      },
      "message": "change on newbranch",
      "tree": {
        "sha": "251731e2cdf00524297c28dd18e5f6a91dc6e06",
        "url": "https://api.github.com/repos/RobG5150/assign1git/git/trees/251731e2cdf00524297c28dd18e5f6a91dc6e06"
      },
      "url": "https://api.github.com/repos/RobG5150/assign1git/git/commits/3a99af65fd28b1282950043817d73abd428bb773",
      "comment_count": 0,
      "verification": {
        "verified": false,
        "reason": "unsigned",
        "signature": null,
        "payload": null
      }
    }
  },
  "url": "https://api.github.com/repos/RobG5150/assign1git/commits/3a99af65fd28b1282950043817d73abd428bb773",
  "html_url": "https://github.com/RobG5150/assign1git/commit/3a99af65fd28b1282950043817d73abd428bb773",
  "comments_url": "https://api.github.com/repos/RobG5150/assign1git/commits/3a99af65fd28b1282950043817d73abd428bb773/comments",
  "author": {
    "login": "RobG5150",
    "id": 122696729,
    "node_id": "U_kg0081A0GQ",
    "avatar_url": "https://avatars.githubusercontent.com/u/122696729?v=4",
    "gravatar_id": "",
    "url": "https://api.github.com/users/RobG5150",
    "html_url": "https://github.com/RobG5150",
    "followers_url": "https://api.github.com/users/RobG5150/followers",
    "following_url": "https://api.github.com/users/RobG5150/following{/other_user}",
    "gists_url": "https://api.github.com/users/RobG5150/gists{/gist_id}",
    "starred_url": "https://api.github.com/users/RobG5150/starred{/owner}/{/repo}",
    "subscriptions_url": "https://api.github.com/users/RobG5150/subscriptions",
```

Section 1 Part 2:

[https://api.github.com/repos/RobG5150/assign1git/branches/newbranch?per\\_page=50](https://api.github.com/repos/RobG5150/assign1git/branches/newbranch?per_page=50)

```

{
  "name": "newbranch",
  "commit": {
    "sha": "3a99af65fd28b128295004381d73abd428bb773",
    "node_id": "C_kwODI1Py9oAKDNH0T1h2jY1ZmQyOGIxdjYyOTUwMDQzODc3ZWJkNDI4YmI3bzM",
    "commit": {
      "author": {
        "name": "RobG51",
        "email": "rjgonz14@asu.edu",
        "date": "2023-01-24T03:36:35Z"
      },
      "committer": {
        "name": "RobG51",
        "email": "rjgonz14@asu.edu",
        "date": "2023-01-24T03:36:35Z"
      },
      "message": "change on newbranch",
      "tree": {
        "sha": "251731e2cdf00524297c28dd18e5f6a91dc6e06",
        "url": "https://api.github.com/repos/RobG5150/assign1git/git/trees/251731e2cdf00524297c28dd18e5f6a91dc6e06"
      },
      "url": "https://api.github.com/repos/RobG5150/assign1git/git/commits/3a99af65fd28b128295004381d73abd428bb773",
      "comment_count": 0,
      "verification": {
        "verified": false,
        "reason": "unsigned",
        "signature": null,
        "payload": null
      }
    },
    "url": "https://api.github.com/repos/RobG5150/assign1git/commits/3a99af65fd28b128295004381d73abd428bb773",
    "html_url": "https://github.com/RobG5150/assign1git/commit/3a99af65fd28b128295004381d73abd428bb773",
    "comments_url": "https://api.github.com/repos/RobG5150/assign1git/commits/3a99af65fd28b128295004381d73abd428bb773/comments",
    "author": {
      "login": "RobG5150",
      "id": 122696729,
      "node_id": "U_kg9081A0Q",
      "avatar_url": "https://avatars.githubusercontent.com/u/122696729?v=4",
      "gravatar_id": "",
      "url": "https://api.github.com/users/RobG5150",
      "html_url": "https://github.com/RobG5150",
      "followers_url": "https://api.github.com/users/RobG5150/followers",
      "following_url": "https://api.github.com/users/RobG5150/following{/other_user}",
      "gists_url": "https://api.github.com/users/RobG5150/gists{/gist_id}",
      "starred_url": "https://api.github.com/users/RobG5150/starred{/owner}/{repo}",
      "subscriptions_url": "https://api.github.com/users/RobG5150/subscriptions"
    }
  }
}

```

## Section 2.2:

The image is a composite. On the left, a Wireshark packet capture window is shown with the filter 'tcp.port == 9000'. The packet list shows several HTTP requests to 34.221.202.82:9000. The selected packet (1516) is an HTTP GET request. The packet details pane shows the request structure: Ethernet II, Internet Protocol Version 4, and Transmission Control Protocol. The packet bytes pane shows the raw data. On the right, a browser window shows a random image of bread. Below the browser window, a photograph of a loaf of bread on a wooden cutting board is shown.

- 1) The filter I chose to use on Wireshark is tcp.port == 9000. The port was specified in the document so it made sense to use that filter and pick up traffic from that port specifically.

- 2) The random button will switch between the two pictures every time you press it. When you press the refresh button or F5 it will do the same however every time before showing the picture a page will appear with the word "Test" on it.
- 3) I was able to see a couple such as the GET code being 372 and the OK being 200
- 4) Well the first one was the 372 get command which came when I requested to see the random page. The 200 code was the ok code confirming that the directory I wanted to visit, in this case /random, was available and then let me access it.
- 5) I do see the get and okay responses and I am able to find certain data such as "these are the get responses.." etc.
- 6) HTTPS is more common because it would prevent me being able to access the data that I was able to see in question number 5.
- 7) In our case the server is listening for the port 9000 and not the most common port for HTTP is port 80.
- 8) According to my wireshark, port 59943

## 2.3

- 1) the URL I used was <http://34.221.202.82:9000/> when I used it without that specific port it would show up an error with nginx.
- 2) it looks like its redirecting all of the traffic to port 51068 whenever I try to access without the specified port.
- 3) HTTP I can still access information

4)

The screenshot displays two windows side-by-side. The left window is Wireshark, showing a packet capture on the interface 'tcp.port == 9000'. The selected packet is a GET request from 34.221.202.82 to 192.168.0.167 on port 9000. The right window is a web browser showing the response, which is a 200 OK status code. The browser's address bar shows the URL '34.221.202.82:9000'. Below the browser window, a file explorer shows the directory structure of the web server, including 'index.html' and 'root.html'.

**You can make the following GET requests**

- /file/sample.html -- returns the content of the file sample.html
- /json -- returns a json of the /random request
- /random -- returns index.html

**File Structure in www (you can use /file/www/FILENAME):**

- index.html
- root.html

## 2.5.4

### Request:

“host:PORT/power?num1=1&num2=2”

### Path:

power

### Body Parameter:

num1 (int) -required

num2 (int) -required

### Response:

“Result is: “ + result

### HTTP response status codes:

200 – OK Power function executed correctly

206 – Content Missing

400 – Bad Request

**Request:**

"host:PORT/GCD?num1=1&num2=2"

**Path:**

power

**Body Parameter:**

num1 (int) -required

num2 (int) -required

**Response:**

"Result is: " + result

**HTTP response status codes:**

200 – OK GCD computed correctly

206 – Content Missing

400 – Bad Request