# Time Server Node.js

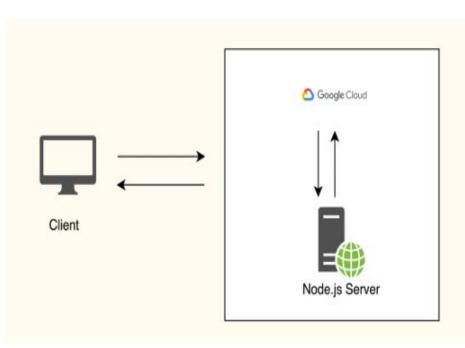
By Temitayo Alli 20011

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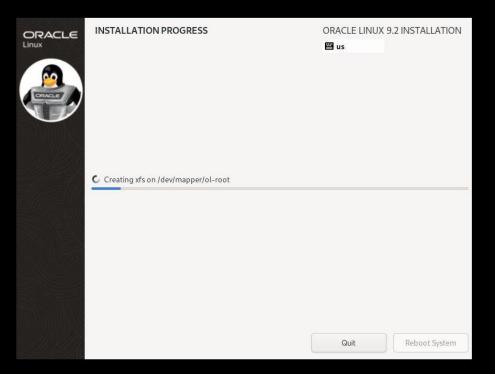
# **FEATURES**



# **EXPECTATIONS**

- Installation of VM
- Installation of nodejs
- Installation of npm
- Create code in Texteditor
- Starting the server
- Results

# **DELIVERABLES**



# **Installation of VM**

```
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Started Forward Password R...s to Plymouth Directory Watch
[ OK ] Reached target Local Encrypted Volumes.
[ OK ] Reached target Path Units.
[ OK ] Started cancel waiting for multipath siblings of nume@n1.
  OK | Finished Wait for udev To Complete Device Initialization
        Starting Device-Mapper Multipath Device Controller...
[ OK ] Started Device-Mapper Multipath Device Controller.
[ OK ] Reached target Preparation for Local File Systems.
[ OK ] Reached target Local File Systems.
[ OK 1 Reached target System Initialization
[ OK ] Reached target Basic System.
/dev/sr0: 403a1cd060ee43b5213082d6d3c883f7
Fragment sums: 23abcc8a0f8b5d36f56a2d6b54e876d9e5b4827154323615645f4b7cf383
Fragment count: 20
Supported ISO: no
Press [Esc] to abort check.
Checking: 013.6%_
```

### Installation of VM



















# temitayoalli@LinuxUbuntu:-\$ sudo apt install nodejs Reading package lists... Done Building dependency tree... Done Reading state information... Done nodejs is already the newest version (12.22.9~dfsg-1ubuntu3.3).

O upgraded, O newly installed, O to remove and 538 not upgraded.

temitayoalli@LinuxUbuntu:~\$

# Installation of nodejs

# temitayoalli@LinuxUbuntu:-\$ sudo apt-get install -y nodejs Reading package lists... Done Building dependency tree... Done Reading state information... Done nodejs is already the newest version (12.22.9~dfsg-1ubuntu3.3). 0 upgraded, 0 newly installed, 0 to remove and 538 not upgraded. temitayoalli@LinuxUbuntu:-\$

# Installation of npm

#### TEXT EDITOR WITH PROJECT CODES

```
time server2.js
                                                                                        \equiv
  Open ~
                                                                                Save
                                                                                                  ~/Desktop
 1 const http = require('http');
 3 function zeroFill(i) {
    return (i < 10 ? '0' : '') + i:
 5 }
 7 function now() {
   var d = new Date();
    return {
      year: d.getFullYear().
10
      month: zeroFill(d.getMonth() + 1),
11
12
      date: zeroFill(d.getDate()),
      hour: zeroFill(d.getHours()).
13
14
      minute: zeroFill(d.getMinutes()),
      createdBy: "Temi" // Added field with text "Created by Temi"
15
16
    7;
17 }
18
19
20 let server = http.createServer((req. res) => {
    // Set a response type of application/json for the response
    res.writeHead(200, {'Content-Type': 'application/json'}):
22
23
24
25
    res.end(JSON.stringify(now()));
26 });
27
28
29 const port = Number(process.argv[2]) || 8080;
30 server.listen(port, () => {
   console.log('Node server running on http://localhost:' + port);
32 }):
33
```

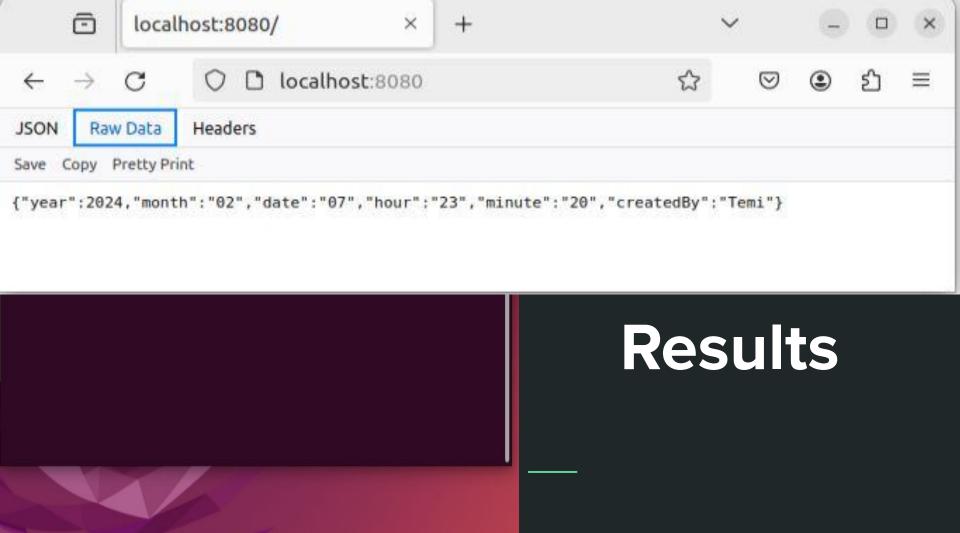


Q = - 0

temitayoalli@LinuxUbuntu:~/Desktop/student-score-api\$ node server2.js 8080 Server running on port 8080

#### STARTING THE SERVER

- You have to open the terminal from where you created your directory and follow through with other instructions.
- Run "node time\_server2.js 8080"
- Copy link and access in a browser



#### REFRENCE

- Exercises for Learnyounode. (2021). Sfbu.edu.
   <a href="https://hc.labnet.sfbu.edu/"henry/npu/classes/javascript/node\_js/course/nodeschool/learnyounode/exercise\_learnyounode.html">https://hc.labnet.sfbu.edu/"henry/npu/classes/javascript/node\_js/course/nodeschool/learnyounode/exercise\_learnyounode.html</a>
- Node.js on Ubuntu. (2024). Sfbu.edu.
   https://hc.labnet.sfbu.edu/~henry/npu/classes/javascript/node\_js/slide/ubuntu.html
- Time Server. (2021). Sfbu.edu.
   https://hc.labnet.sfbu.edu/~henry/npu/classes/javascript/node\_js/course/nodeschool/learnyounode/time\_server.html
- Exercises for Ubuntu. (2020). Sfbu.edu.
   https://hc.labnet.sfbu.edu/~henry/npu/classes/linux/ubuntu/slide/exercise\_ubuntu.html#setup

## Conclusion

In conclusion, the deployment of a Node.js time server on a local VM on a windows environment was a success.