CS571 – Cloud computing Infrastructure

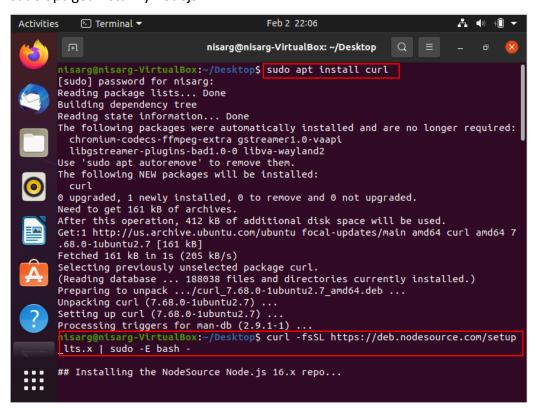
Week - 2 Homework - 2

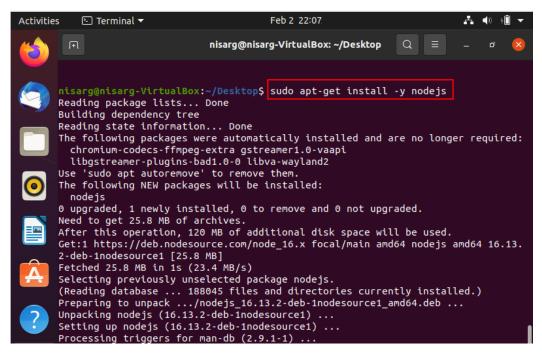
Q8. Node.js Time Server on Ubuntu.

Answer:

Setup Environment:

- Install ubuntu on VirtualBox
 How to install Ubuntu on VirtualBox here
- Install Node.js in Ubuntu OS in VirtualBox
 Open the VirtualBox and run Ubuntu guest Operating System
 Open the Ubuntu terminal
- Install Node.js with Ubuntu terminal by running curl sudo apt install curl curl -fsSL https://deb.nodesource.com/setup_16.x | sudo -E bash sudo apt-get install -y nodejs



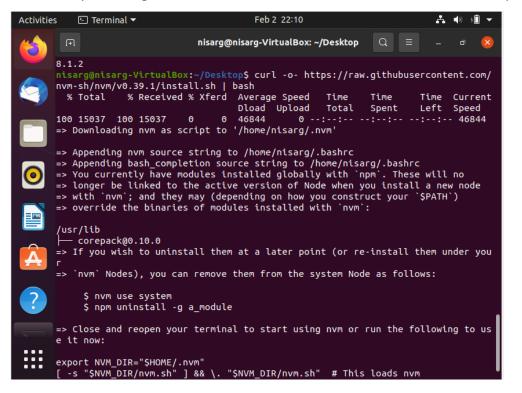


4. Verify that the Node.js and npm version

```
nisarg@nisarg-VirtualBox:~/Desktop$ node --version
v16.13.2
nisarg@nisarg-VirtualBox:~/Desktop$ npm --version
8.1.2
```

5. Install nvm (Node Version Manager)

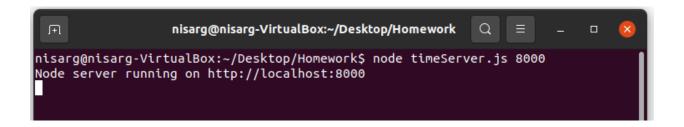
Curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.1/install.sh | bash



Now create the new file of timeserver.js with following program const http = require('http');

```
function addZero(i) {
 return (i < 10 ? '0' : ") + i
}
function now () {
 var date = new Date()
  return date.getFullYear() + '-'
    + addZero(date.getMonth() + 1) + '-'
    + addZero(date.getDate()) + ' '
    + addZero(date.getHours()) + ':'
    + addZero(date.getMinutes())
}
// Create an instance of the http server to handle HTTP requests
let server = http.createServer((req, res) => {
 // Set a response type of plain text for the response
  res.writeHead(200, {'Content-Type': 'text/plain'});
 // Send back a response and end the connection
 res.end(now()+'\n');
});
// Listening on the port provided on the command line
server.listen(Number(process.argv[2]))
console.log('Node server running on http://localhost:'+ process.argv[2]);
```

7. Open Ubuntu terminal and enter following command node time server.js 8000



8. Open search engine and go to http://localhost:8000, you should see the following output

