**Network Analyzer**

Table of Contents

[Section 1: Instructions to use 1](#_Toc474100700)

[Section 2: Features 1](#_Toc474100701)

[Section 3: Toolset Used 2](#_Toc474100702)

[Section 4: Internal Routing of templates 2](#_Toc474100703)

# Section 1: Instructions to use

1. Make sure you have NodeJS (v4.x.x and above) installed globally on your machine. Find the detailed installation instruction from <https://nodejs.org/en/>
2. Open any command-line prompt you know on your machine, set the current directory to the app/ folder.
3. Run “npm install”
4. When the installation is finished, run “npm run start” and open “localhost:8000” in your browser.
5. On the first view i.e. Node View, user can analyze the details about a specific node in the network. Unique nodes are available from the drop down list. As soon as a selection is made – the relevant data gets displayed.
6. The second view i.e. Network View, user can see the overall details as well visualize the entire network. The graph displayed can be zoomed-in, zoomed-out and dragged around.
7. The third view i.e. Summary presents the details regarding the servers facing the highest load in the given session.

# Section 2: Features

* All pages are responsive.
* Graphs can be zoomed-in, zoomed-out and panned-around.
* Graphs plotted are dynamic, directed from source node to destination node.
* Snapshot view of the network available in Summary Tab wherein user can know the nodes facing highest load at the moment.
* Directory structure which can be scaled-up to include more features like more controllers, templates, vendor files etc.

# Section 3: Toolset Used

* AngularJS
* D3.js
* Bootstrap
* Javascript
* jQuery
* jQuery-mockjax
* HTML
* CSS

# Section 4: Internal Routing of templates

* Index.html contains just the header and empty main body. Depending on the views – different DOM elements are loaded inside the body so that application remains a single page application.
* Templates are loaded in at the div element with ng-view directive.
* Routing is established inside a config.js file which tells the Angular-app which templates to load when the user clicks on different views.
* Variables are injected from controller to view AngularJS 2-way data binding.