Drashti
A Network monitoring Tool

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Project for IX Sem MCA

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Introduction

Monitoring an active communications network in order to diagnose problems and gather statistics for administration and fine tuning.

Includes operation needed to run network services smoothly.

Goal

Monitor Every Device on the Network and show Complete Information in Real Time.

Fault Monitoring of essential resources.

Send important alerts to admin via email.

Importance of Network monitoring

Fault Network Devices can be detected through early detection.

Server Downtime can be reported immediately.

Detailed Statistics on a single Platform

Features

1. Monitoring the essentials
2. Listing Entire Infrastructure
3. Keep Track of outages
4. Helps to Fix Issue
5. Provide real time Information
6. Visualization
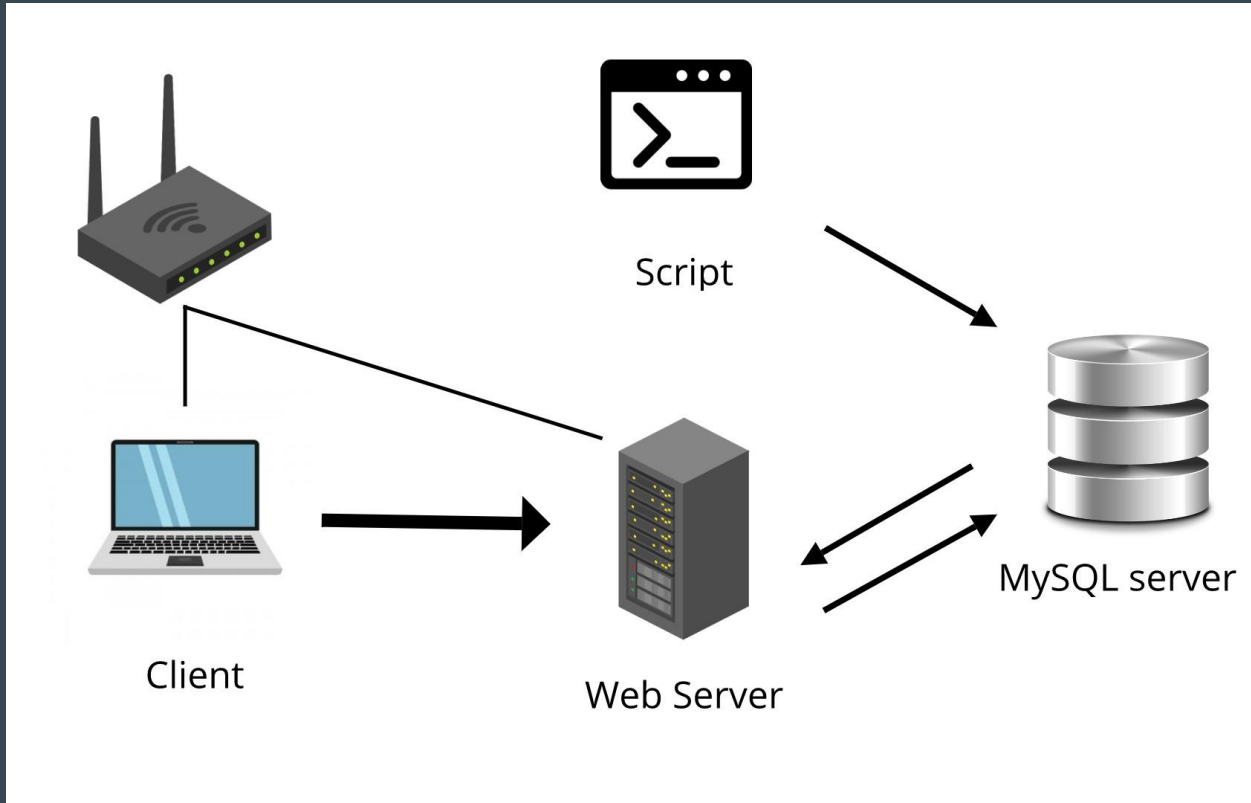7. Helps to Manage Growing Network

Requirements

Hardware Requirement

- Dual Core Processor
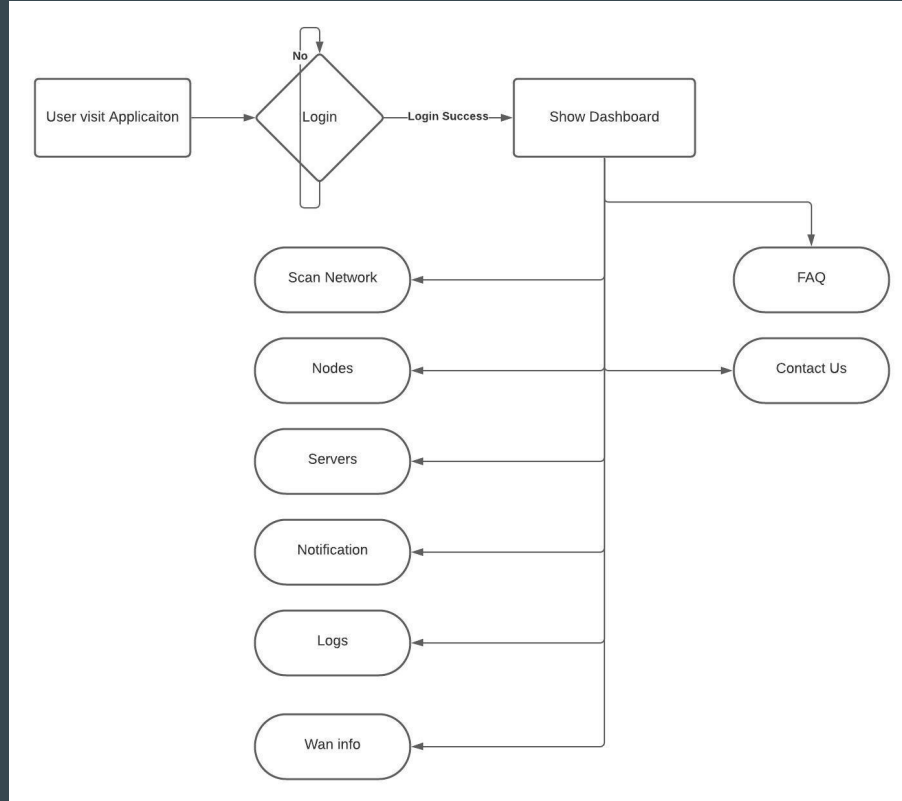- 1 GB Primary Memory
- 16 GB Secondary Memory

Software Requirements

-Operating System (Linux or UNIX based)

- Web Browser for Client
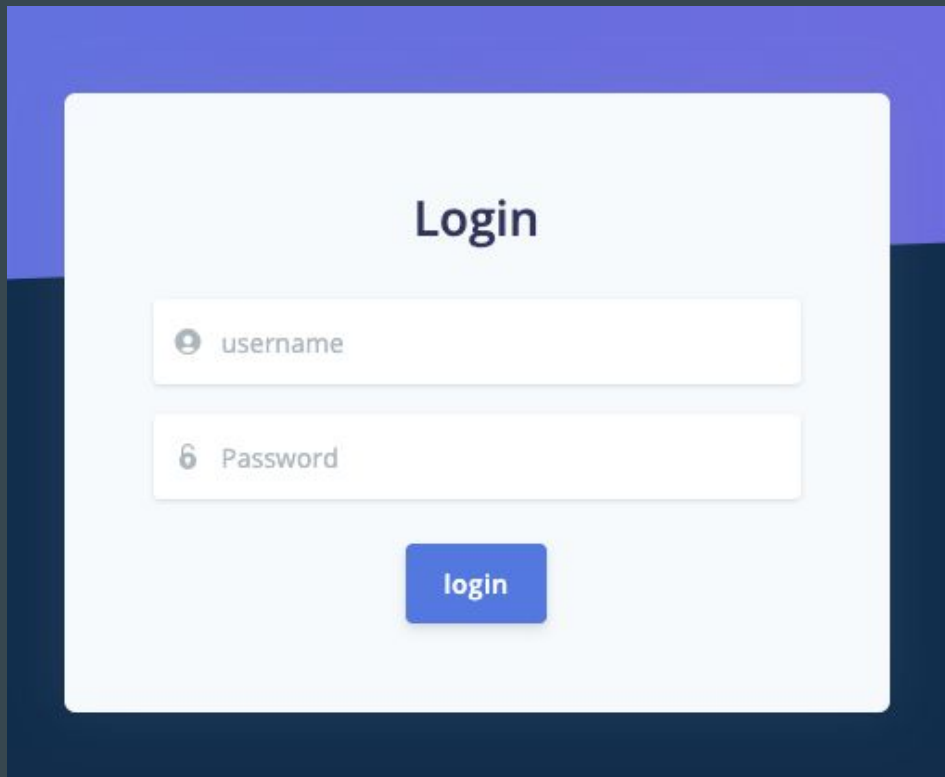
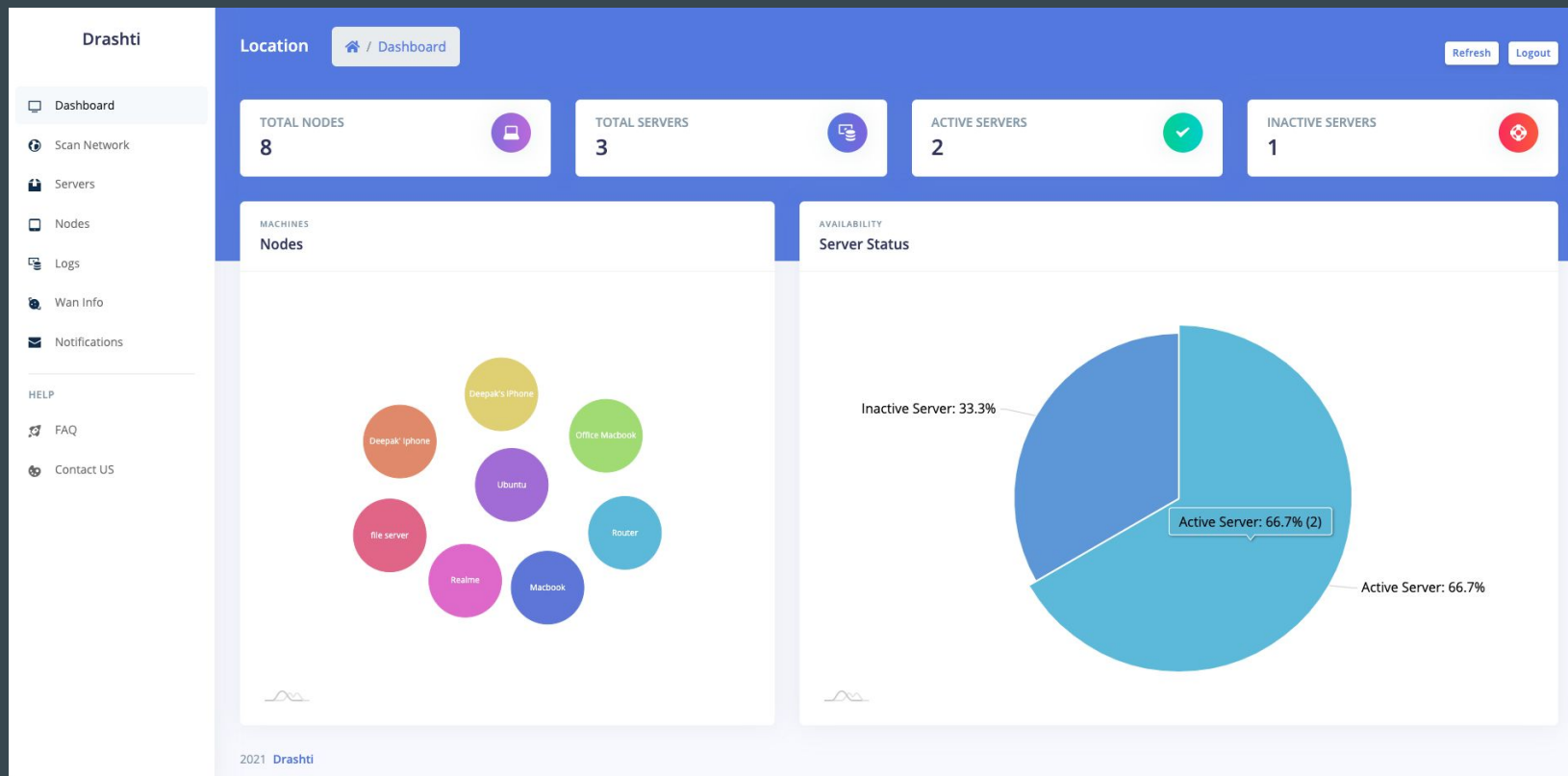- Required Frameworks

Design

User Workflow

Demo

Login

Dashboard

Scan Network

List of active IP

IP	
192.168.1.1	**Add to Nodes**
192.168.1.10	**Add to Nodes**
192.168.1.21	**Add to Nodes**

Servers
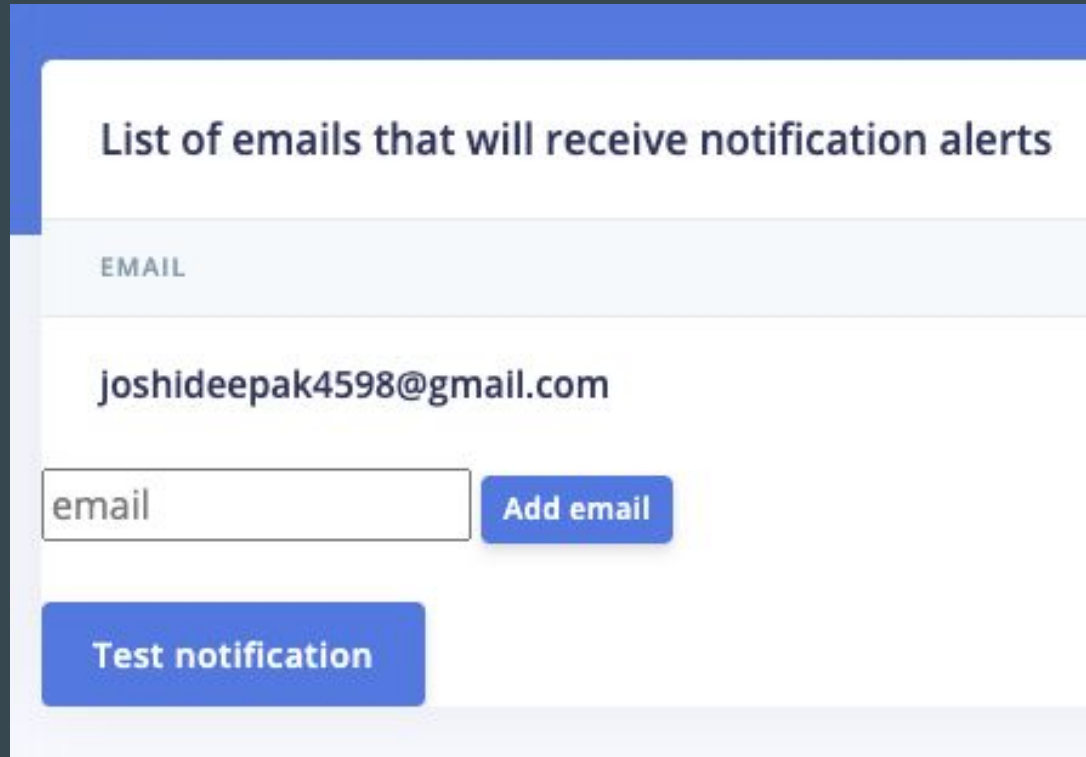
Servers

STATUS	NAME	IP	DESCRIPTION	RTT	
• Active	Router	192.168.1.1	gateway	1.757	Remove Server
• Not Active	Ubuntu	192.168.1.2	VM	∞	Remove Server
• Active	Realme	192.168.1.21	phone	217.852	Remove Server

Nodes

STATUS	NAME	IP	DESCRIPTION	RTT		
● Active	Router	192.168.1.1	gateway	1.757	Add to Server	Remove Node
● Active	Macbook	192.168.1.10	Laptop	0.111	Add to Server	Remove Node
● Not Active	Ubuntu	192.168.1.2	VM	0.360	Add to Server	Remove Node
● Active	Realme	192.168.1.21	phone	217.852	Add to Server	Remove Node
● Active	file server	192.168.1.4	fskfisdnfinwenfinf	3.002	Add to Server	Remove Node
● Active	Deepak' Iphone	192.168.1.5	Office	134.594	Add to Server	Remove Node
● Not Active	Deepak's iPhone	192.168.1.8	Mobile	I	Add to Server	Remove Node
● Not Active	Office Macbook	192.168.1.9	Office	I	Add to Server	Remove Node

Notification

List of emails that will receive notification alerts

EMAIL

joshideepak4598@gmail.com

email   **Add email**

Test notification

Logs

Logs

TIMESTAMP	USER
2021-02-01 16:49:02	deepak
2021-02-05 10:55:38	deepak
2021-02-05 10:58:18	deepak
2021-02-05 23:01:35	deepak
2021-02-06 09:48:50	deepak
2021-02-22 09:37:29	deepak
2021-02-22 22:42:32	deepak

WAN info

Location	Indore , Madhya Pradesh , India
Wan IP	122.168.77.213
ISP	AS24560 Bharti Airtel Ltd., Telemedia Services
Timezone	Asia/Kolkata
Wan IP	122.168.77.213

Conclusion

1. Monitoring is the only way to find out whether the network in functioning according to plan.
2. This application provide all the information of devices.
3. The outcome is wide range of useful data.
4. These data can be used to provide statistical report.
5. Ultimately helps to make network more efficient for use.