

PAYBITOPRO SERVER MONITORING MANUAL



PAYBITOPRO SERVER MONITORING MANUAL

CONTENTS

Sl no.	Title	Page No.
1	Contents	1
2	What is Node server Admin Panel	2
3	Overview of Dashboard	3 -5
4	Overview of Project Tabs(Under Dashboard)	6-14
5	Overview of API Analytics	15 -16
6	API metrics	17
7	Overview of Storage Tab	17-18
8	Overview of CPU Tab	19-20
9	Overview of RAM Tab	21-22





Welcome to the World of Server Monitoring - Admin Control Panel

What is NODE SERVER ADMIN PANEL - Introduction

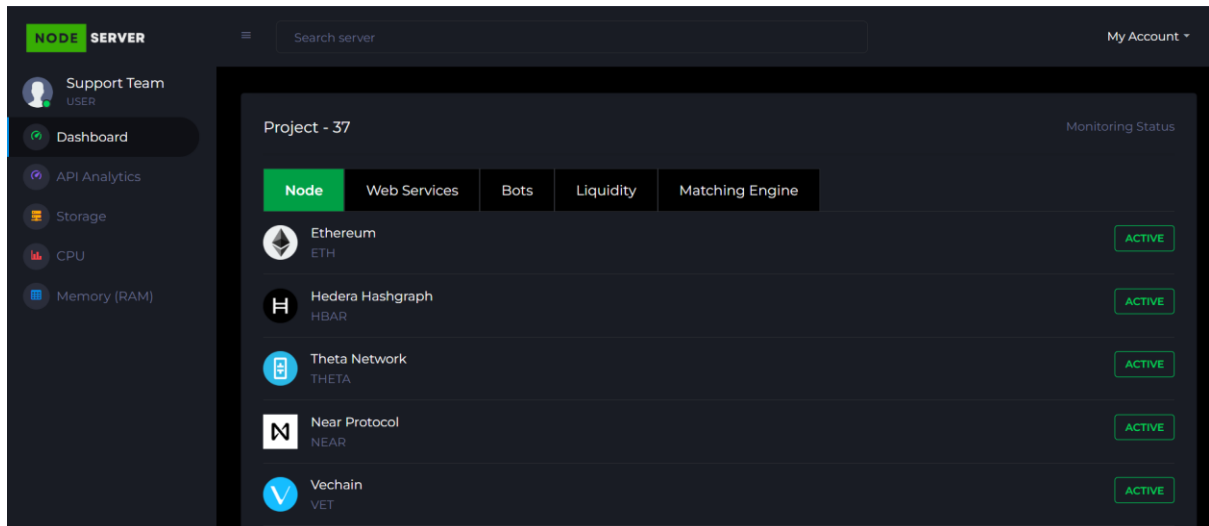
Node Server Admin panel is a Dashboard for viewing all the details of the server running in the Node, JAVA etc. , Status of Memory, RAM status and Many More.

In simple words, we can say that It is a complete pack for Operation Team where they can view all details about each and every crypto Project/Tokens (NATIVE and ERC20) and can also notify the respective allotted members if any error occurs.

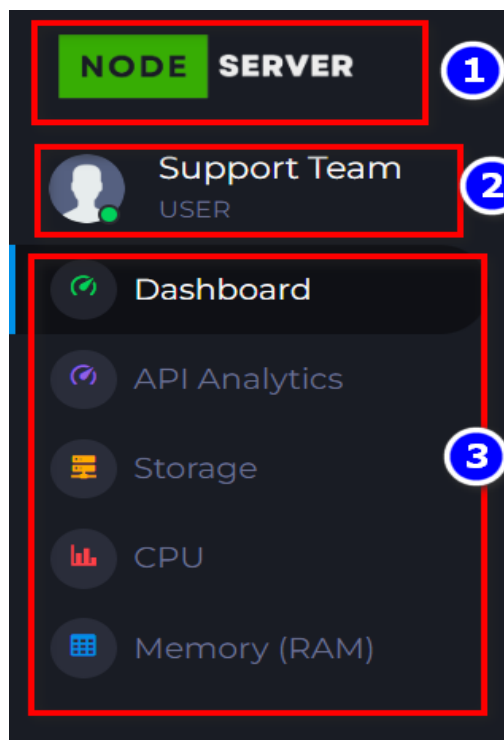
This Panel displays Logs of all the processes running in the server, DB Connections, OS version, Node and NPM versions, Wallet Notifications, CPU used, RAM used, Storage Consumed, IP instance of the particular server, Total running tasks and many more.



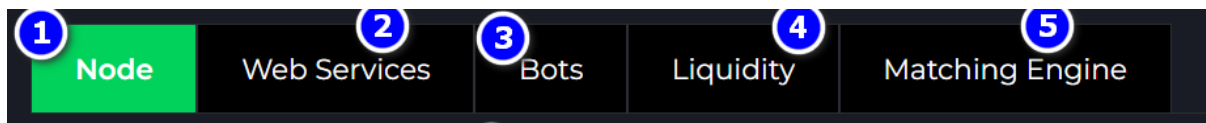
Overview of DASHBOARD



Let's understand this Panel in more detail with every screen shared and their motive to be displayed.



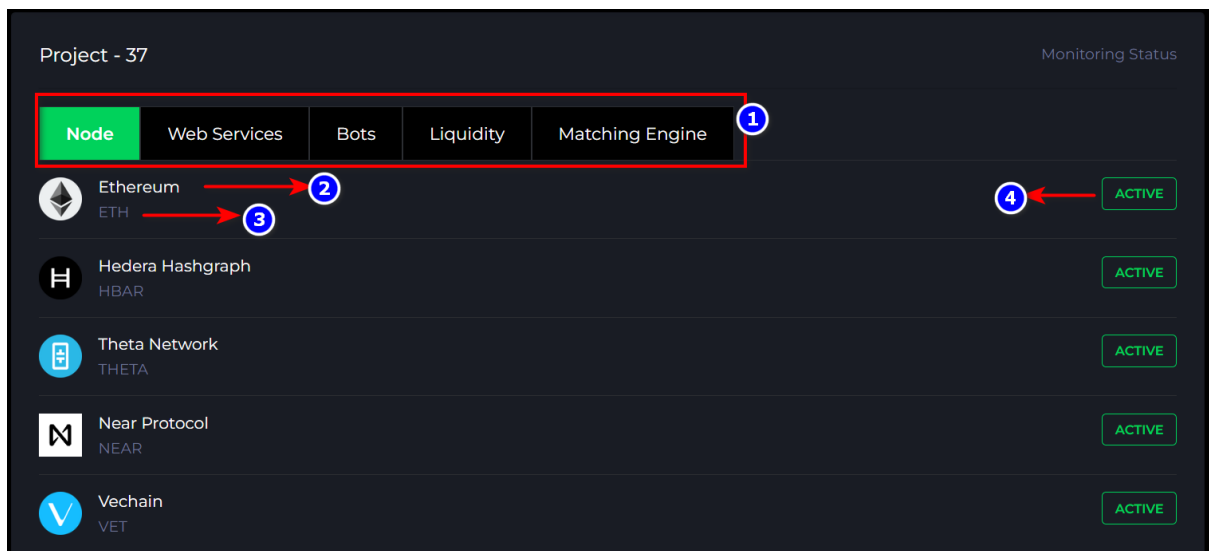
1. **LOGO** - This is the place of the logo of the panel which is clickable and once clicked it will be redirected to the Home Page wherever the user is in (in any page or tab).
2. **PROFILE OVERVIEW**- Whenever the user signs in, the overview of the user will be displayed here with the active green dot and its profile picture.
3. **PANEL TABS** - These tabs are clickable and are named accordingly. The user will click any tab and will redirect to the corresponding page. There are mainly 4 tabs for now namely :-
 - **Dashboard** - views of all the Tokens and Project with their details inside it.
 - **API Analytics** - Shows all the details of the API hit by the user for all different projects.
 - **Storage** - This tab will show the full details of Storage of each and every crypto Project and Tokens.
 - **CPU** - This tab shows the usage of CPU in each server served in one plate (tab/place).
 - **Memory/RAM** - This tab displays the memory usage of every server in one place.



This Tabs are present in both Dashboard and API analytics panel which shows all the projects under their Parent projects:

- **Node** - All the node js project shows in this tab
- **Web Services** - User accounts, and other projects are shown here
- **Bots** - The automation bots runs in each project are shown in this tab
- **Liquidity** - Java based projects are shown here
- **Matching Engine** - This is also java based but different from liquidity

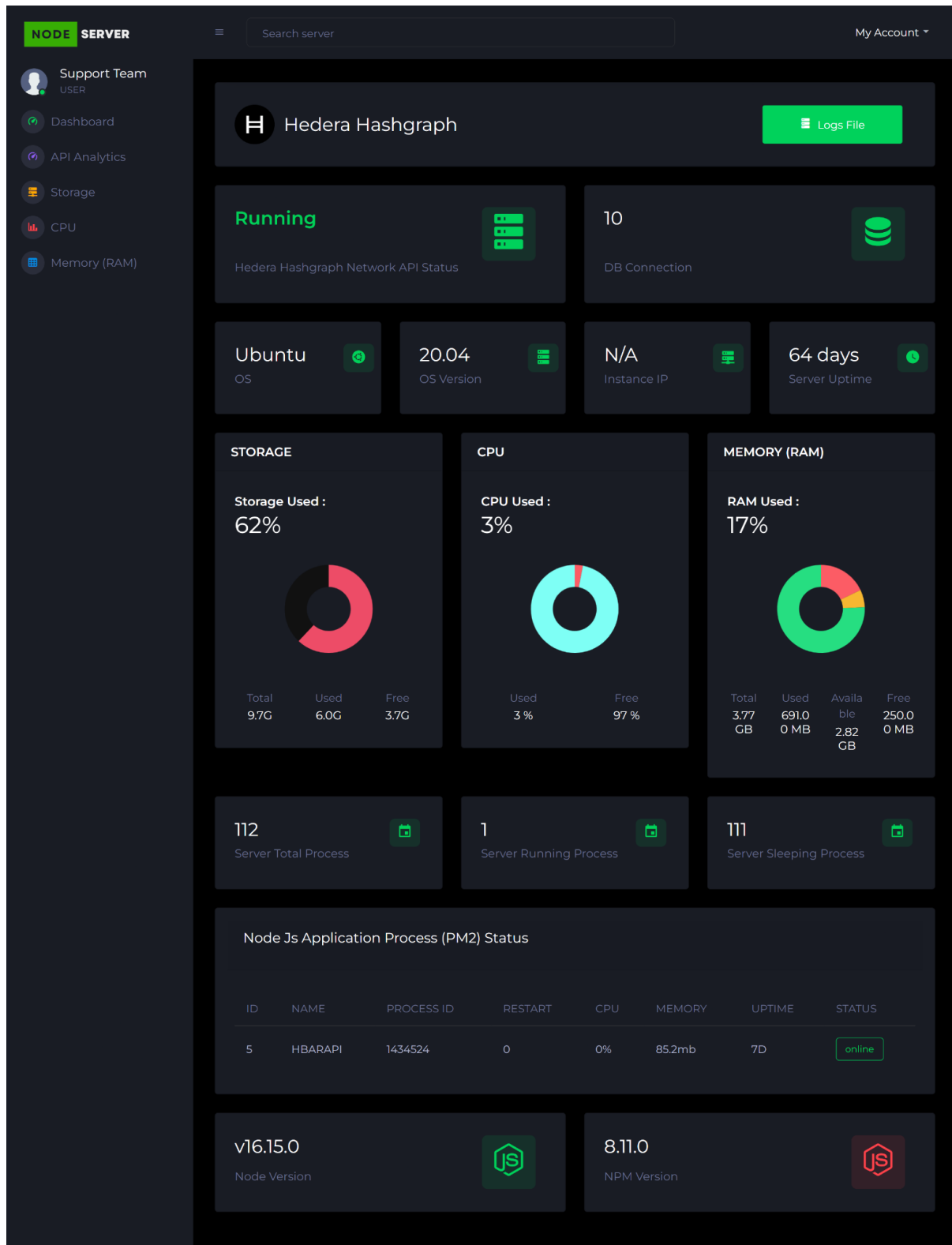


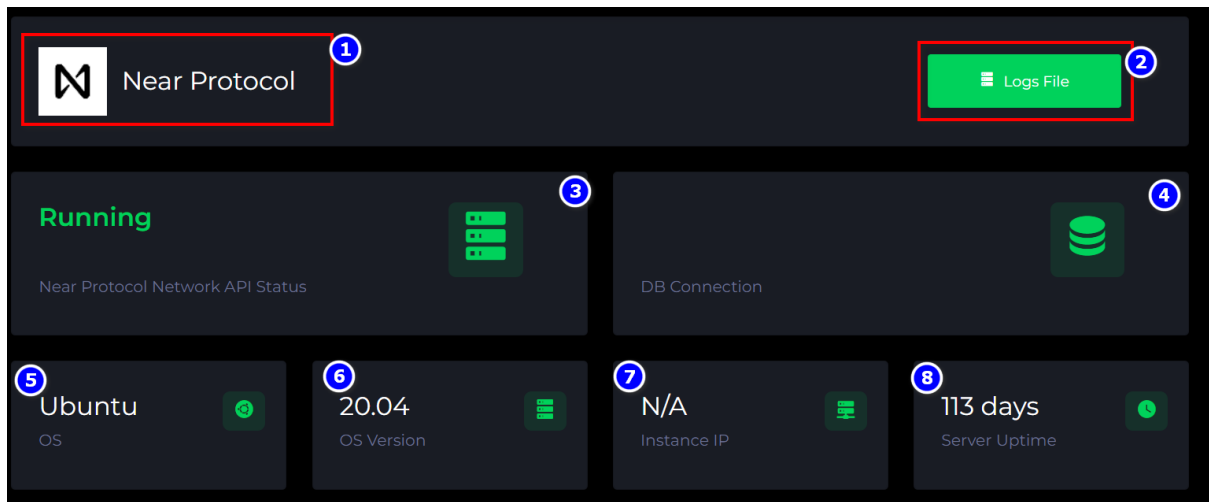


1. Tabs for the parent project
2. Name of the project with its LOGO for the NODE tab(set as active default)
3. Asset name of the child Project
4. Active or Inactive status of the corresponding project are displayed here. If ACTIVE, (as shown in the figure) it will be GREEN else RED.



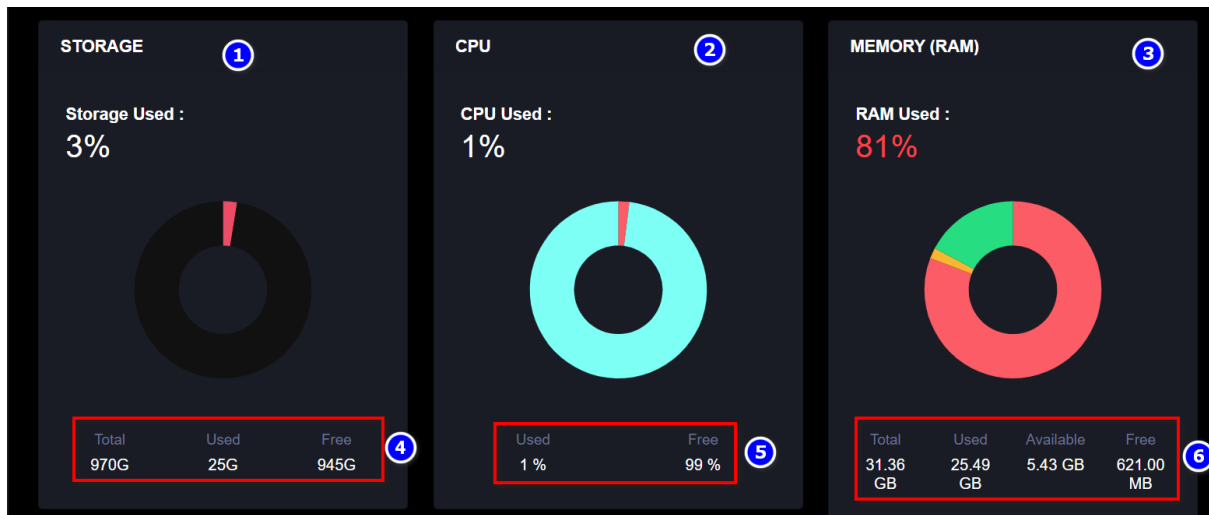
Overview of the Projects (View of Dashboard Project tabs)



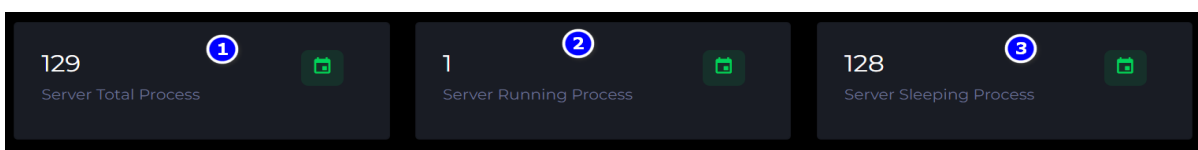


1. Name of the Project with its logo.
2. **Logs files** - a button for all log files which when clicked will take users to a new page where only log files will be displayed.
3. The status of the project (if running then GREEN if not then RED)
4. This shows the total number/counts of database connections is currently connected to the particular server.
5. The Operating System used for the server
6. The OS version of the operating system used.
7. Server IP instance. It will not be shown to the user. Only Admin can see.
8. Uptime - total days of the server when it is live.





1. A full graphical representation of **Storage** used in the respective server with the help of a doughnut chart.
2. Visualisation of CPU usage by the particular server.
3. Use of RAM(Memory)
4. Total Storage, used from total and Total free storage remaining in the server (All in GB).
5. Out of 100....used CPU and unused (free) in percentage.
6. Total Memory allotted to the server in which used, free and available memory status is shown in figures(out of 32 GB)



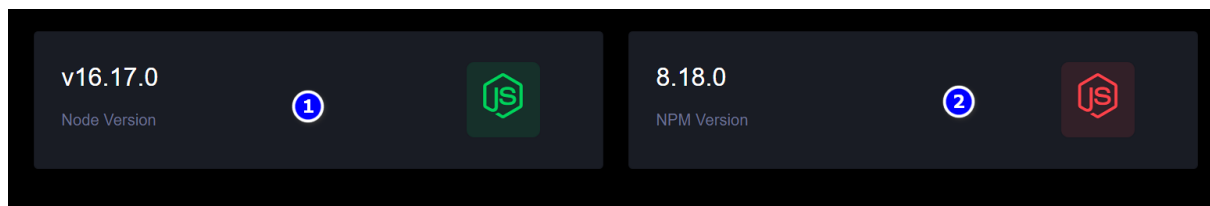
1. Total number of processes (tasks/jobs) running in the server.
2. Number of active process(s) in the server.
3. Number of sleeping processes in the server.

Note: It is not the processes that are stopped. Just pinging them will wake the process to work.



Node Js Application Process (PM2) Status							
ID	NAME	PROCESS ID	RESTART	CPU	MEMORY	UPTIME	STATUS
10	NEARAPI	1363255	0	0%	73.2mb	6D	online
7	Notification	893194	2	0%	120.7mb	35D	online

The above image shows the PM2 processes running on the server and what is its status in real-time.



1. Shows the Current Node version used in the server for Making API(s) and other notifications.
2. It shows the current NPM version used by the node in the server.



Overview of Logs Files tab

NODE SERVER

Support Team
USER

Dashboard

API Analytics

Storage

CPU

Memory (RAM)

Ethereum

Ethereum & ERC20 Node Logs (26)
Folder: paybitMainnetApp

Process	Path	Folder	File Size	Last Modified	Action
YFI	/home/ubuntu	paybitMainnetApp	14 KB	2022-11-01T10:03:01.245Z	View Download

Active DB Connection Counts Logs (1)
Folder:

Process	Path	Folder	File Size	Last Modified	Action
DB_Connection	/home/ubuntu		347 KB	2022-11-01T11:20:02.010Z	View Download

Ethereum Wallet Notification Logs (1)
Folder: apache-tomcat-8.5.31/logs

Process	Path	Folder	File Size	Last Modified	Action
catalina	/home/ubuntu	apache-tomcat-8.5.31/logs	509 KB	2022-11-01T11:22:01.885Z	View Download

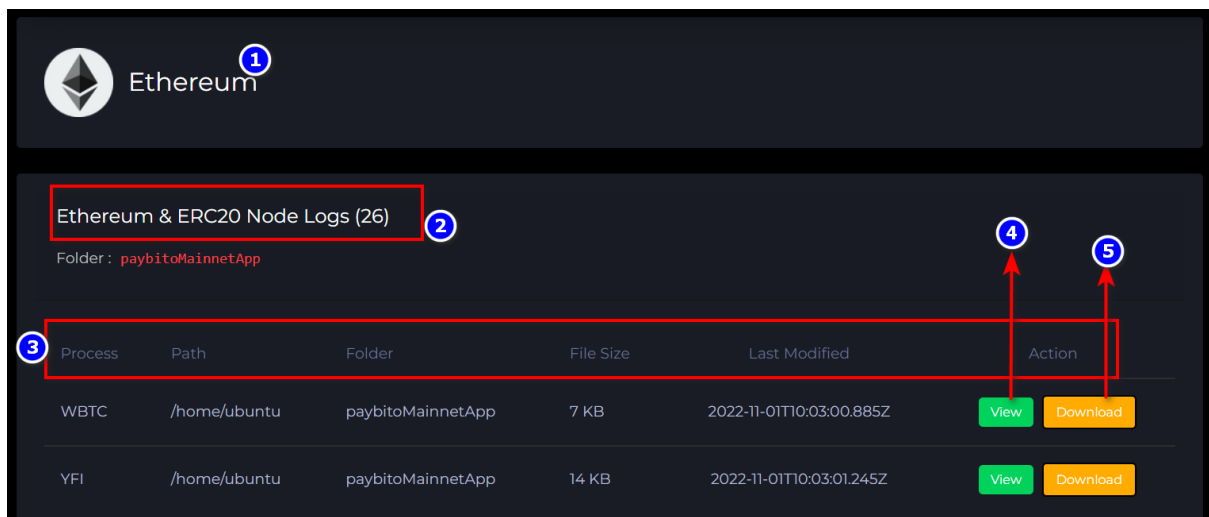
ERC20 Token's Scheduler Logs (22)
Folder:

Process	Path	Folder	File Size	Last Modified	Action
PaybitPro_WBTC_NotifyLiveScheduler-0.1	/home/ubuntu		139 KB	2022-11-01T11:15:00.002Z	View
PaybitPro_YFI_NotifyLiveScheduler-0.1	/home/ubuntu		138 KB	2022-11-01T11:15:00.002Z	View

Ethereum Node Syncing Status Logs (1)
Folder: ethNodeMailNotify

Process	Path	Folder	File Size	Last Modified	Action
nodecheck	/home/ubuntu	ethNodeMailNotify	226 KB	2022-11-01T11:20:54.178Z	View Download





1. Name of the project

2. Name of the Logs file with the exact number showing in the server.

3. Features of the Project with logs consist of:-

- **Process** - This is the process/task running in the server
- **Path** - Path of the folder where it is deployed
- **Folder** - Name of the folder where it is
- **File Size** - Size of the log file
- **Last Modified** - current modification occurs with date and time.
- **Action** - consists of buttons:-
 - a. **View** - View the log file in text format
 - b. **Download** - download the log file in your local storage

4. View Button for having a sneak peek at the log file.

5. Want to download? Click this button and it will download the file for you in your local storage.



These below logs are generated dynamically and are not same for all the projects, it is only available in ethereum project.

Active DB Connection Counts Logs (1)					
Folder :					
Process	Path	Folder	File Size	Last Modified	Action
DB_Connection	/home/ubuntu		8 KB	2022-09-06T08:00:01.505Z	View Download

Same goes for the Active DB log files. The only difference between these files is that this log file shows the details of the total Database connections going in the server in one page and is updated every 5 minute.

Ethereum Wallet Notification Logs (1)					
Folder : apache-tomcat-8.5.31/logs					
Process	Path	Folder	File Size	Last Modified	Action
catalina	/home/ubuntu	apache-tomcat-8.5.31/logs	2.05 MB	2022-09-06T08:03:39.998Z	View Download

This log file generates the logs for the ETH project whenever the receiving is done. The receiving is done from the JAVA side.

ERC20 Token's Scheduler Logs (22)					
Folder :					
Process	Path	Folder	File Size	Last Modified	Action
Paybitopro_AAVE_NotifyLiveScheduler-0.1	/home/ubuntu		48 KB	2022-10-28T07:44:59.999Z	View Download
Paybitopro_BAT_NotifyLiveScheduler-0.1	/home/ubuntu		47 KB	2022-10-28T07:44:59.999Z	View Download
Paybitopro_BUSD_NotifyLiveScheduler-0.1	/home/ubuntu		48 KB	2022-10-28T07:44:59.999Z	View Download

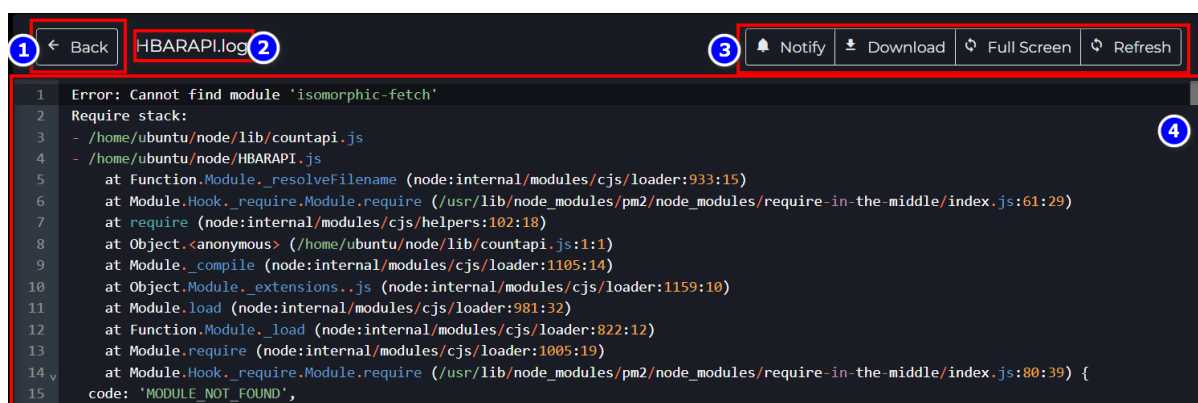


ERC20 Token's Scheduler runs accordingly whenever the Token receives any amount. These are log files of each Token of ERC20.

Ethereum Node Syncing Status Logs (1)					
Folder : ethNodeMailNotify					
Process	Path	Folder	File Size	Last Modified	Action
nodecheck	/home/ubuntu	ethNodeMailNotify	226 KB	2022-11-01T11:20:54.178Z	View Download

Ethereum Node Syncing Status logs are the viewing details of the log files generated when the node is syncing.

Overview of Log Editor (Next page after clicking Logs Files button)



1. Back - button to back to the dashboard page.
2. Name of the log file of the Project.
3. Buttons to handle and to do with the log files once opened. Let's know these buttons in more detail:
 - **Notify** - this button sends the mail to the allocated member of the corresponding projects if any error in the log files is displayed.
 - **Download** - this button will download the log file in your local storage.
 - **Full Screen** - It will show you the logs in bigger screen(full screen)



- **Refresh** - this button will refresh the log just by clicking it. Means it will sync with the latest log generated and will reflect in the log page.

Overview of Log Editor with Search Panel

The screenshot shows a log editor window titled 'HBARAPI.log'. The log content displays a JavaScript error: 'Error: Cannot find module 'isomorphic-fetch''. Below the error, a 'Require stack' is listed, including paths like '/home/ubuntu/node/lib/countapi.js' and '/home/ubuntu/node/HBARAPI.js'. At the bottom of the window, a search panel is visible. It contains a search box with the text 'error', a 'next' button, a 'previous' button, and a 'replace' button. There are also checkboxes for 'all', 'match case', 'regex', and 'by word'. A red box highlights the search panel area.

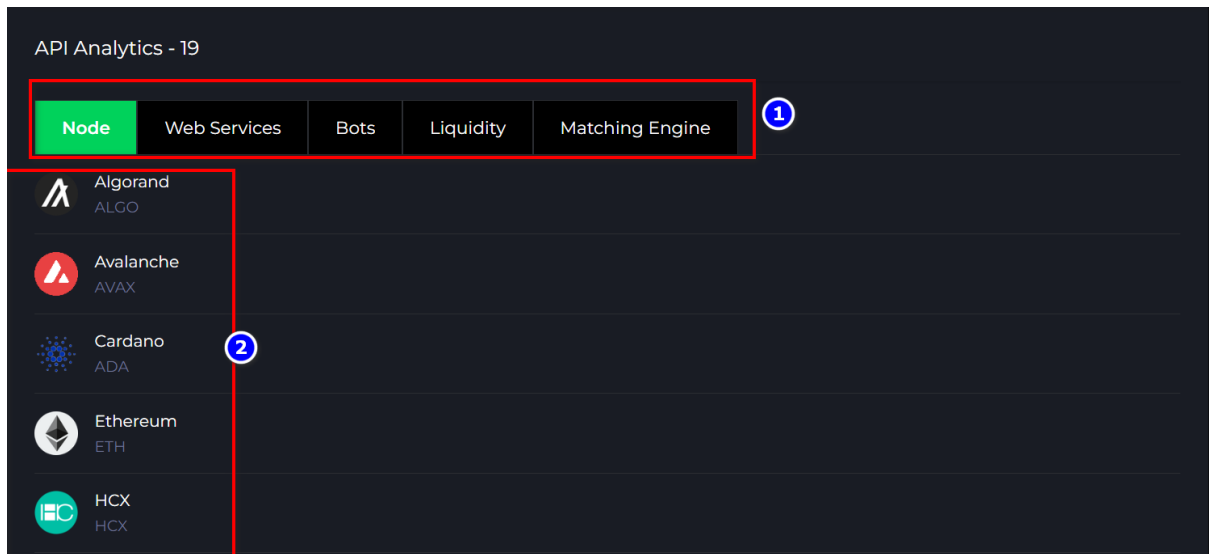
After clicking ctrl + F the user will get the above search in panel where he/she can find the exact text when he/she types in the box.

1. A search box where users can find the exact text in the log editor and also can replace the text with some other text, but it will not be saved in the UI it's just for interaction with the log contents.

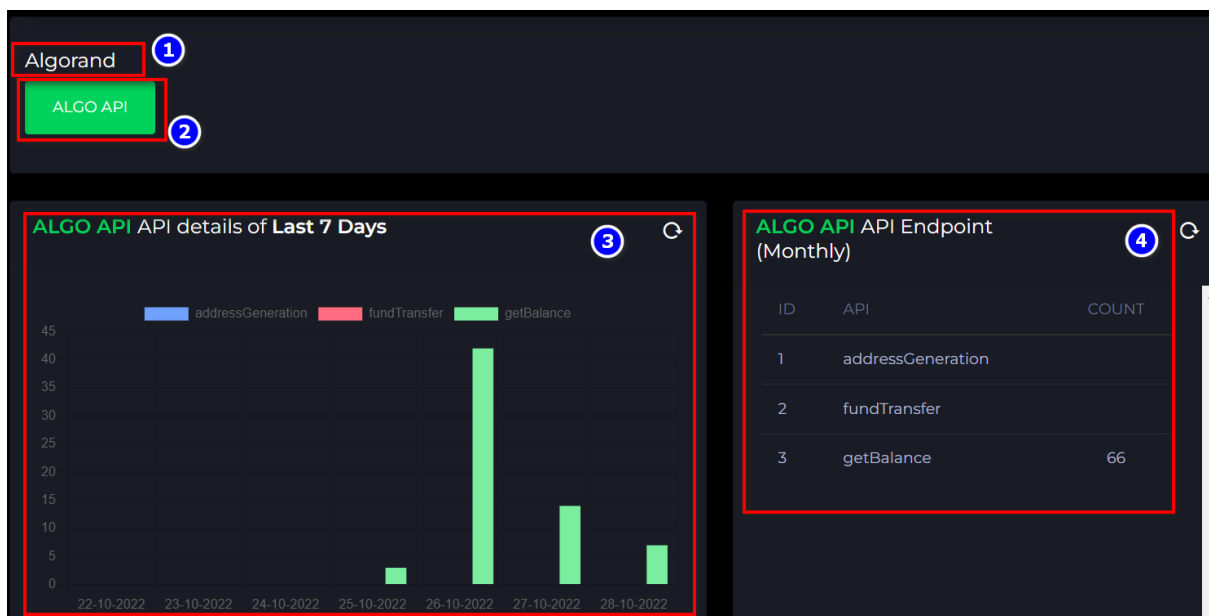
Here is an example of a search tab where we searched the text “error” and it shows in the editor with light blue colour at top.



Overview of API Analytics tab

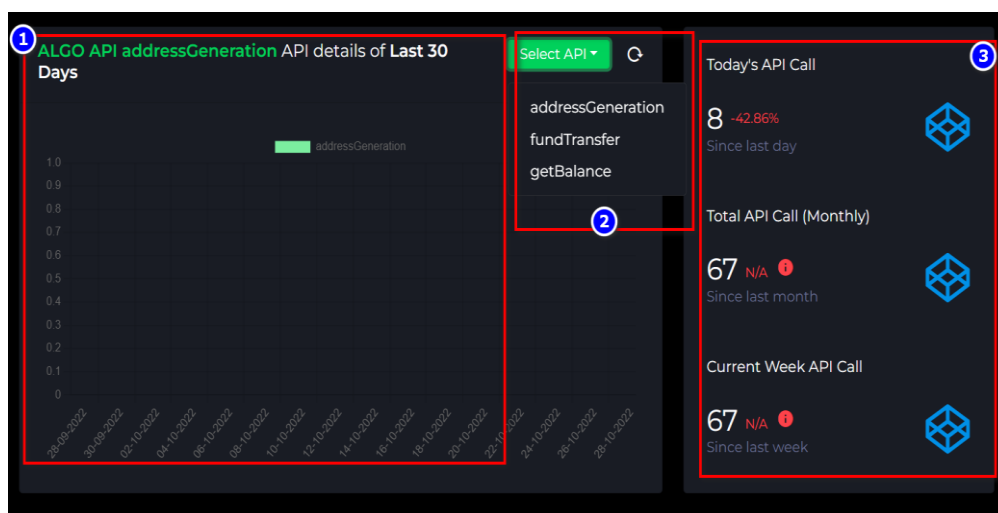


1. Different tabs for different projects click on any of the projects, it will display its child project. By default it's in the Node tab.
2. List of the child Project inside the tab(s)



After clicking any of the child project the inside view will look like above. Let's explain the terms:-

1. Name of the Project
2. Name of the API Present in the Project
3. API details of last 7 days (one week) represented through graph visualisation. Also showing the different APIs hit by the user in last 7 days in form of different colours.
4. Total API count in numerical values hit by the users in the current month.



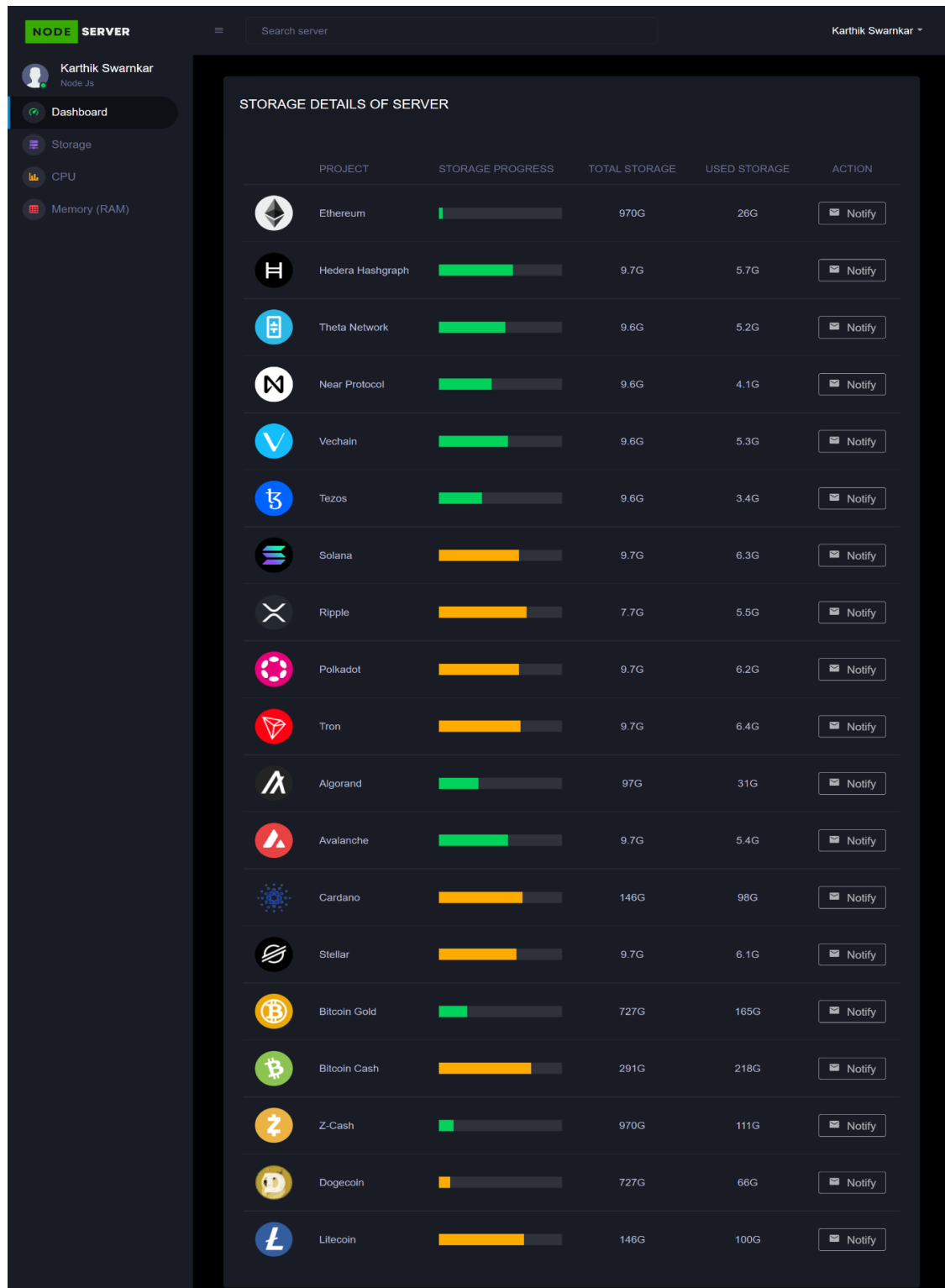
1. API details of last 30 days (one month) represented through graph visualisation. Also showing the different APIs hit by the user in last 30 days in form of different colours. Only difference from the last 7 days API details tab is that it shows one specific API hit in the monthly wise date.
2. **Select API** - this button gives option to choose from the list of APIs present in the project which will be when clicked displays the details of the one month API hit by the user.
3. This is the numerical values of the Total API counts in a day, in a month and in a week with the comparison percentage change from the last day, month and week respectively.

API Metrics				Select Limit		
METHOD	STATUS	URL	USER IP		TIME	TIME
POST	200	getBalance - algoapi	172.31.2.185			28-10-2022 1525
POST	200	getBalance - algoapi	172.31.2.185			28-10-2022 1401
POST	200	getBalance - algoapi	172.31.2.185	2	22.72 ms	28-10-2022 1349
POST	200	getBalance - algoapi	172.31.2.185	2	10.11 ms	28-10-2022 0819



1. API metrics - means all the details of the API hit by a user will display here.
2. Select Limit - button which will show all the list of last 10,25,50,100 API metrics(details).
3. Details of the API whenever hit.

Overview of Storage Tab



2	PROJECT	STORAGE PROGRESS	TOTAL STORAGE	USED STORAGE	ACTION	1
2	Ethereum	3	970G	26G	4	
H	Hedera Hashgraph		9.7G	5.7G	Notify	
T	Theta Network		9.6G	5.2G	Notify	
N	Near Protocol		9.6G	4.1G	Notify	
V	Vechain		9.6G	5.3G	Notify	
t	Tezos		9.6G	3.4G	Notify	
S	Solana		9.7G	6.3G	Notify	
X	Ripple		7.7G	5.5G	Notify	

1. Details of the Storage tab consist of

- **Project** - Name of the project deployed
- **Storage Progress** - Storage served in progress bar with dynamic results
- **Total Storage**- Total storage allocated to every Project(measured in GB)
- **Used Storage** - Total GB used in total storage provided.
- **Action** - What to do with the Project if storage **exceeds 90%**.

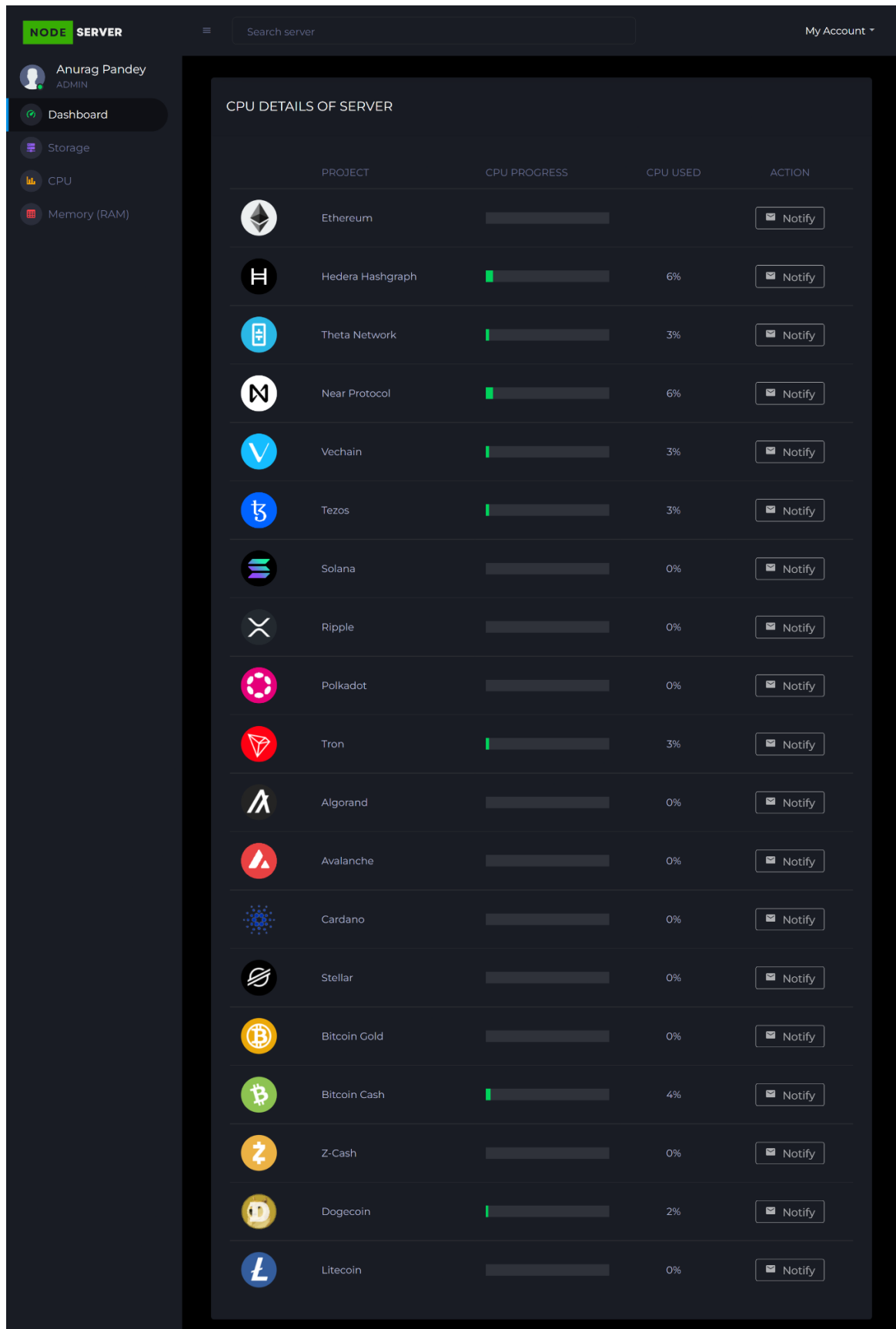
2. LOGO of every Project












3. Progress bar with dynamic status of storage in each Project

4. Notify button - to notify if the storage exceeds **above 90%**



Overview of CPU Tab



CPU DETAILS OF SERVER				
	PROJECT	CPU PROGRESS	CPU USED	ACTION 
	Ethereum	<div><div></div></div>	1%	 Notify
	Hedera Hashgraph	<div><div></div></div>	6%	 Notify
	Theta Network	<div><div></div></div>	3%	 Notify
	Near Protocol	<div><div></div></div>	3%	 Notify
	Vechain	<div><div></div></div>	3%	 Notify

- Description of CPU details consists of:-
 - Project** - Name of the Crypto Project
 - CPU Progress** - Status of CPU through visualisation (progress bar).
 - CPU Used** - Used CPU Status out of 100%
 - Action** - If CPU exceeds (Gradually it doesn't) 30%, click this button which will send the mail to the assigned member.



Overview of Memory (RAM) Tab

NODE SERVER

Anurag Pandey
ADMIN

Dashboard

Storage

CPU

Memory (RAM)

Search server











My Account

MEMORY(RAM) OF SERVER

	PROJECT	MEMORY PROGRESS	TOAL MEMORY	USED MEMORY	ACTION
	Ethereum	<div></div>			Notify
	Hedera Hashgraph	<div></div>	3.77 GB	604.00 MB	Notify
	Theta Network	<div></div>	3.77 GB	496.00 MB	Notify
	Near Protocol	<div></div>	3.83 GB	415.00 MB	Notify
	Vechain	<div></div>	3.77 GB	540.00 MB	Notify
	Tezos	<div></div>	3.83 GB	412.00 MB	Notify
	Solana	<div></div>	3.84 GB	805.00 MB	Notify
	Ripple	<div></div>	3.86 GB	587.00 MB	Notify
	Polkadot	<div></div>	3.84 GB	480.00 MB	Notify
	Tron	<div></div>	3.83 GB	774.00 MB	Notify
	Algorand	<div></div>	7.76 GB	1.59 GB	Notify
	Avalanche	<div></div>	3.84 GB	416.00 MB	Notify
	Cardano	<div></div>	31.35 GB	12.24 GB	Notify
	Stellar	<div></div>	3.84 GB	820.00 MB	Notify
	Bitcoin Gold	<div></div>	7.77 GB	2.59 GB	Notify
	Bitcoin Cash	<div></div>	7.79 GB	2.45 GB	Notify
	Z-Cash	<div></div>	15.63 GB	6.47 GB	Notify
	Dogecoin	<div></div>	7.77 GB	3.28 GB	Notify
	Litecoin	<div></div>	7.79 GB	3.02 GB	Notify



MEMORY(RAM) OF SERVER

	PROJECT	MEMORY PROGRESS	TOAL MEMORY	USED MEMORY	ACTION
	Ethereum	<div><div></div></div>	31.36 GB	25.16 GB	 Notify
	Hedera Hashgraph	<div><div></div></div>	3.77 GB	607.00 MB	 Notify
	Theta Network	<div><div></div></div>	3.77 GB	496.00 MB	 Notify
	Near Protocol	<div><div></div></div>	3.83 GB	414.00 MB	 Notify
	Vechain	<div><div></div></div>	3.77 GB	532.00 MB	 Notify

1. Description of CPU details consists of:-

- **Project** - Name of the Project
- **Memory Progress** - Status of RAM through visualisation (progress bar).
- **Total Used**- Total Memory allocated to the server.
- **Used Memory** - Used Memory used out of Total Memory.
- **Action** - If RAM exceeds more than 90%, click this button which will send the mail to the assigned member.

