

HAWK M Series

Reference Manual Version [HMV23.06]



Models: [P2L2x64] Group: [M32 / M64 / M2K / M2P2]

Admin Guide

(Hardware, Web-management, and Operations)



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Hint: - Ctrl + Click to jump on the page.



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CDN

- Security Monitoring (IP)
- Reports

8. Contact us

Tech Support Ticket – Software

.

- 24X7 Contact Line
- Video Tutorials and Black book

Optional* / *= Optional additional features

Sample/Tips/Note points/Important Sample For Short Tips: //Tip: This is a short tip. For Info Tip Important Tip for users. Important tips will be served you time to time in this document.

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Hardware

• Model / Series

There are different variants which suits all kind of IT infrastructure environment. Whether Centralized, De-centralized, Large Scale facilities, Standalone or Distributed, Private Cloud, CoLo(cation), Sharing, or on-premise. Caters to all IT Infrastructure.

\Rightarrow Hawk M - P1L2x32	//Know more www.akus.io
\Rightarrow Hawk M - P1L2x64	
\Rightarrow Hawk M - P2L2x64	//Dual-PSU
\Rightarrow Hawk - X, Xe, Xe+	//Series for Private Cloud,
	Large organisation, MNC & Enterprises.

Hawk Edge - IoT Edge device //IIoT4.0 Outdoor/Kiosk/Edge device

• Mounting and Commissioning

Please check Manual copy dispatched inside the packaged box. If you have lost it, please request from <u>support@akus.io</u>. (Required accessories like Allen Key and Screws are enclosed within box).

• Power On device

Device default mode is in power fault-tolerant mode and auto fan speed. Which helps to keep device utmost up and running. Power button also has certain functioning with different pattern to press power button.

- ✓ A connected Power chord will start the device immediately (Check Power LED indicator
- ✓ Press once to restart device gently (Restart the device in safe way)
- ✓ Press and keep hold for three seconds to enforce power off the device (Device will auto reset to fault-tolerant mode once power chord unplugged)

• Physical Network Connectivity

Device has multi network high bandwidth ports. User can customized connectivity according to their IT environment and requirements(At Installation). Device has multi NIC RJ 45 Ethernet ports for Network Connections.

Standard; Port 1 (Internet Access) & Port 2 (Intranet Access)

✓ WAN / WAN (Cloud/Distributed/Multi-Campus/Multi-Locations)

//Tip: Ideally Not recommended for security tightening.



✓ LAN / LAN (For Secured Offline(VPN)/On-premises)

//Tip: Compatibility RFC12/19, Select as per requirement.

✓ WAN / LAN (DMZ, Bridge Mode)* //Optional* feature, Check device Model

Check visible status notification

Device has indicator LEDs in-front face side of the device. Left - right LED active status show device's storage and power button show active status.



Tip: Failure of any LED should be notified immediately to authorised person (RMA) or let us know (Support)! However, Blinking is a normal functionality. Device may generate sound during the bootup. Exhaust system is auto configured to maintain RPM speed as per the surrounding temperature and load requirement.

• Know Your HAWK Device

Please check your model details at our official website: www.akus.io.

Support

Below services are available at official website: www.akus.io

Check support section for below requirements

RMA – Hardware

To replace the faulty component / device raise your complaint from website: www.akus.io/RMA

You can directly contact Helpline or Relationship Manager or write us.

Raise Ticket (Tech Support) – Software / Hardware



User can book a technical support ticket at our website. Fill up the details and send directly to us.

Also, within device IMS section from header. User can raise ticket through device directly. As given below.

First Name*	
Hawk	
Last Name*	
Hawk	
Email	
hawk@akus.co.in	
Message*	
Write something	
	/

24X7 Contact Line

India Support

helpline number Toll Free - 1800 309 9987 (Help Line)

// Tip: Kindly share or mention the Customer ID for fast support.



write us: support@akus.co.in

Global Support

write us: support@akus.io

Video Tutorials and Black Book (Reference Manual)
 Tutorial and knowledge base videos are accessible at our YouTube channel.
 YouTube Channel: <u>AKUS ITs</u>

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Software

All models Embedded with Hawk Multi-Core Engine. Performance and Smartness together. All models are Plug 'N' Play model. However, more depth level of enhance monitoring and management. User can implement one or more methods like SSH, Telnet, SNMP, API, Agent, NetFlow etc as per their device capabilities.

• Version: (Launched 01/2022) – Latest Version HMV23.06



	ABOUT US	
	PRODUCT OVERVIEW	
	PRODUCT SERIES	
Hawk M is a part of pro	oduct series Hawk. This product series is property of	f aKus ITs under
rights reserved. Copyright aKus = 2023	. All rights reserved® Hawk Series	
rights reserved. Copyright aKus ⁼⁼ 2023 Edge	. All rights reserved® Hawk Series Agent-based Agent-less	Hybrid

Ans: In header open about us, click to expand Product details to know your model version.

• **Pre-requisition and Compatibility details:** Only 3rd party API & ISP-CDN Integration are additionally to be configured. Please contact tech support team.

//Tip: Pre-requisition for device compatibility and advance feature support. Always check your device/node model from OEM document for release and version. Only that device which possess the capability with respective to the enabled feature and manageable are supported through SNMP(v1/v2/v3) and others are NMS ready.

- User(s): Please refer next section [Operations] for details.
 - Super Admin (Privileged Account)

- Admin (Manager Account)
- Users (Others)
- Factory Reset: (Only for Admin/ SuperAdmin)
 - Open Admin Setting from right top corner. Select to open "Administration".
 - Select option Factory Reset (Caution: this functionality is irreversible in nature, You may loose the data.) Confirm your acceptance.
 - Machine will restart automatically and reset to initial push license stage.
- **Configuration:** Unified NMS Software is already Embedded within Hardware along with Database.



Operations

• There are different roles are ready to be configured in easy and opportune with prebuilt templates and default super admin user.

Default Roles:

Pre-loaded roles are denoted by given below

 Super Admin User (hawk)*: Prebuilt non-removable user. This user is the highest in the authority. This user acts as a competent authority to approve and reject the request from second authority admin users for critical decisions. Hawk is unique and top in user hierarchy with complete privileges.

User has unique functionality to transfer own rights to any specific admin user by a simple enable and disable function in administration inside admin settings. Enable allows choosing one admin to self-authorize the requests. Do not use if single privilege user. This hybrid admin serve as an approval and administration privileged user both.

- Admin User: Prebuilt removable user. This user is the second highest in authority. This user acts as an administrative authority to approve and reject the request from the executive/ end user level. There could be multiple admin users. An admin cannot create an admin user (equivalent privileged).
- Staff: Can be managed through admin users. These users could be part of Groups, Departments, Clients, Projects and, teams with assigned privileges and roles. Generally users have view, Monitor and, analysis privileges.
 For Eg: DC Operators: Administrative team to manage, monitor and operator with

• Modules Tour and Management:

predefined access.

- YouTube Video Tour (For Clients/ PoC)
- \circ Online Demo Tour (Register through our website top corner Live demo)



 Administration of Modules: Please refer next Section "Administration & Modules" for detailed information and management of modules.

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Administration

- <u>Login</u>
 - 1. Web Browser (GUI) Access:

If you have configured the device. Go the path: (For Firewall Network- Use Port 8000 in postfix) Sample: http(s)://10.10.10.10 (*Here 10.10.10.10 is assigned IP address of your device*) Firewall Sample: https://10.10.10.10.10.8000 (*Here 10.10.10.10.8000 is assigned IP address and port of your device*)

A login page will display as given below





2. **Registration:** A new user can request for new account to admin through Registration form. User will be able to login once request approved by admin. A sample is given next.

	Reg	istration Form		
		* mandatory fields		
	First Name*:			
(e	Last Name*:			
2		Admin Staff		
8	Userid*:			
	Your Email*:			
	Your Master Password*:	۲		
<u>al</u>	Please Note do	wn master password carefully		
9	Vera Deserved	Check Password Policy -		
0	Your Password":			
	Confirm Your Password*:	۲		
		Submit		
Tip:				
en vour master nas	sword safely with you for	future references.		

3. Forgot Password

User can easily reset the password through their master password validation. New password will be approved by administrator user.

Reset	Password Form
	* mandatory fields
Account Master Password*: Your Email*:	•
Your Password*:	Check Password Policy -
By Submitting this form y	Submit ou are accepting our Terms & Conditions

4. Terminal and Serial Console

a. SSH: Hawk is enabled with SSH(v2) console support.

// Tip: use your device user; hawk(model)

b. RS232: Check your model and datasheet for access details.

- c. VGA: Check your model and datasheet for access details.
- d. HDMI-D*: Check your model and datasheet for access details.
- e. HDMI: Check your model and datasheet for access details.

Hawk Self Care

Hawk device's health Info

Hawk device are smart IoT enabled device. It monitors its own health and report for any misbehave and heads-up condition of device. Device dashboard can be access through directly click on Hawk Logo Icon inside Header.



Stats:

section comprised with statistics and important information to display in tall tabular formats. Alerts – Real-time latest critical alerts related to the device can be seen here. Critical resources – live interactive visualization for critical resources.

Network Utilization – Monitor network interfaces for the device.

CPU Utilization – Hawk is powerful multi-core-threaded processing-based system. Which handle the entire resources request in optimized distributed manner. Hawk engine, compact yet powerful Hybrid multi-core engine for the multi-tasking. (Pls refer model details)

Process Stats (Top running processes) – Identifies abnormal behavior of services and applications inside the device.

Thresholds - Customise your device thresholds or continue to the default settings.

Trigger: You can manage your triggers by easily select desired threshold point for the device. Default it's enabled for best performance mode. Keep it enable, that's it. You are good to go \bigcirc .

Packets Status – A continuous and un-interrupted data-supply for Hawk long lasting performance.
IO R/W Utilization – Disk Read/Write status, ensure smooth functioning during operations.
Rest all devices have their dedicated home dashboard (1st Home Dashboard) Left side in the toolbar.
In the successive section we will explore each one for you.

Monitoring and Management

Home Dashboard







Stats

Hawk Dashboard gives you a holistic summary view of all devices, Notifications, and their stats. In the top of Dashboard counter section helps you figure out critical information in quick and easiest way. Including but not limited to Total devices, Notification counts, Total Datacenters / server rooms, users, Applications, and Web URLs.



Interactive Pie chart helps you to select and gather quick useful information about multiple categories of device. An interactive bar chart gives real-time inventory details. An engine cores chart identifies how many different native protocols (Core) are running in backend and their real-time packet traffic.

A heat-map chart gives a quick weekly view of your notification(s) with respective to its service(s).

• <u>Top Toolbar (Header)</u>

- Info
 - About us Know more about us. Please visit the section.

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ę						ABOUT US				
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8				This produ variety of r Global ww	ct introduced b ange in differer w.akus.io In Ind	by aKus ITs for Business : IT Infrastructure a nt Businesses and IT sectors. Visit our sites dia www.akus.co.in In UAE / MENA www.ak www.akus.co.in In UAE / MENA www.ak	Ind Data centers management. We offer s for all product kus.ae Do follow us Facebook, LinkedIn,			
Lant				Twitten, ins	agram with as					
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٥								-		
"						PRODUCT OVERVIEW	v			

- Product Overview Get to know about your product.
- Product Series & Version Find out your device family and version details.

Review

 Search devices – search your existing devices for real time interaction(raw) with them, refresh page for new connection, pre-requisite testing and Quick status for the device(s).

				āKüs
		Search Exsi	sting Inventory	
To view the existing device details devices	IP	♥ Sho	w All or type	
		5	earch	
	ID	Device Tag	Host	Details

There are two methods to search existing inventory devices through "IP Or Device tag".

// Tip: If you are not sure for which IP address/Tag are you looking for!Leave input blank. Click on search to get all nodes.

Ш	v	Show All or type	
		Search	
ID	Device Tag	Host	Details
1	ARJSITS_Gateway	192.168.1.1	Details
2	EdgecorE	192.168.1.99	Details

Fetch Data –Identify device's capabilities without adding in inventory. Click on Fetch
 Data button to instant check of new device Status / SNMP-check / Stats insights



- My Dash Monitor your most critical devices in your personal dashboard. So, hawk will showup only what you are keen of.
 - All your favorite marked device will appear in your personalize dashboard. Easiest way to keep an eye on your important and critical devices.
 - One click Day & Night Monitoring mode.

192.1	168.1.35				×						
SET TAG AV P	Panel					UP 1 Ma	Interfaces	Admin	Part	THE IN	THE OVE
E Cisc	x0 2										
CRIPTION CISC	o IOS Software, C3560 Soft	ware (C3560-IPSERVICESK9-)	V), Version 12.2(55)SE7, RELEA	ASE SOFTWARE (fc1) Technic	cal Support:						
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				-	-	ASSET TAG			Edge Core		
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Notification

12 Total Devices	Notif	0 ications	7 Data Cei	7 Mark as Read 8 Storage Usage has severity of value 98.3		0 olicatio	ns V	7 Websites
Total Devices 4	Total Inbound	Total Outbound	Total Int 15	Mark as Read RAM Usage has Mark as Read 198.168.1.10 is of Mark as Read	severity of value 93.8	Jaged	Total Blade Chasis	Total VM O
-	STO	RAGE		٦	C	DATA	BASE	
Total Capacity	Total Hosts O	Total No. of Blocks	Total No.	Of File	Record Inserted	Record Updated	Record Deleted	Record Fetched
Devices			– Usage An	alytics	·			
Size 24	Tra		15					
	Total							

- Top 5 High alerts identifies latest and top 5 high and critical alert notifications. So, you can easily prioritize your infrastructure immediate attention seeker requirements in a click and acknowledge.
- See All notification
 - Key Performance Indicator (KPI) Plan your resources with advance KPI section. Be informed, stay planned. (SLA- 6 Level Severity)
 - Bulk actions Allows user to perform bulk options (For eg: Acknowledgement, Archive, etc)



 Notification Archives – All the expired alerts could help us to do in better planning or to handle un-identified issues. So, we keep them in our Archives.



Manage Downtime for device: For corrective/preventive maintenance of devices.
 Select IP address of device which you want to mark down/up for ignoring the alerts during downtime.

Tickets:

 Report us – We listens your all-technical related query or feedback. Leave your technical query to us. Get best guidance from our experts.

8	Toll-Free (India) 1800 309 9987	Hank Email Rank@ass.co.in Screenshot
S.		Hosk Email
	Toll-Free (India) 1800 309 9987 support@xws.co.in we.sks.ce.in	hank@ens.co.in Screenshot Choose File I to the chosen
0	Global Support support@kws.io wee.akws.io.; BMA wee;akws.io/RMA	Message* Write something.
Ē	IMS. Raise Tickets from here.	

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		Created At	Subject	t Sever	ity		Time	8tatus	
First Name*		May 17, 2023, 1:25 p.m.	TEST2	Major S Impact	SL-2 Priority	High	3 day	View	
Hawk		May 17, 2023, 1:26 p.m.	TEST3	Critical Breakd	I SL-1 Priori Iown	tv-	2 hour	View	
Lasi Name*		Aug. 7, 2022, 8:54 p.m.	Test	High S	L-3 Priority-	Impact	3 days	View	
Hawk									
Email									
hawk@akus.co.in									
Boreenshot		Created At	Subject	Message	Severity	Time	Progress	Assigned To	Updab At
Browse No file selected.		Aug-07-2022,8:54 p.m.	Test	This is sample	High SL-3	3 days	Accepted	Madhu Verma	May 17 2023,
Severity				testing.	Impact				p.m.
Time									
4 days	×								
Subject*									
Message*									

Raise a ticket



• Watch – A live time-watch will always ensure effectiveness, attentiveness of time and utilize

it in the best way as timestamp for all screenshots.

Quick Manage

÷	19:57:26 (KO) have (Auguradonia)
	Admin Settings
	Logout

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👑 Groups	📩 Bulk I/O	🐣 Show Users
🖹 Reports	(a) SSL Certificates	■ Backup & Restore
🖨 Network Storage	🔓 Audit Report	>_ Terminal
Administrator	🛗 License	🗘 Upload File
▲ Severity	i SMTP Settings I SMTP Settings	🌣 Network Config

Admin Setting - Dedicated portal for all management tasks for an Administrator / Manager.

Groups: In this section, three functionalities are enabled. Groups - where groups of user can be created, Groups Check-in this visibility of permissions for particular group are mentioned thoroughly as drop down scenario. And third one is Assign group in this group to individual user's name can be assigned by selecting group and name.

🚰 Groups	✓ Groups Check	🚔 Assign Groups
dc v		
Available Permissions		
	Add Apm	
	Change Apm	
	Delete Apm	
	View Apm	
	Add Appliance	
	Change Appliance	
	Delete Appliance	
	View Appliance	
	Add Appliancedatacollection	
	Change Appliancedatacollection	
	Delete Appliancedatacollection	
	View Appliancedatacollection	
	Add Assetpage	
	Change Assetpage	

	Assign Groups	;
dc	✓ [r1	 ✓ Assign Group

 Bulk IO-The Bulk IO module is designed to facilitate importing and exporting data in various formats. This documentation focuses on the import and export functionality, which allows users to process data in (excel)CSV and JSON formats.



//Tip: This is important suggestion, perform the Bulk I/O cautiously and carefully
validate the format of data. Data will be enforced in database without validation.
Wrong/incorrect/blank/Null/O resultant to fatal /crash damage to the device and
operations. Not sure! perform under supervision of support/RE technical team.

)			
~					
976			🕹 l Exports	.t. LImports	
٠					
	•	Export	5		
		-			
			Choose model		
			Choose format		
				Export	
	•	Import	5		
				Import Data importing to detabase	
			Choose model	v]	
			unoose tormet RetowneNo file selected.	v	
				Import	

Show users- all the details of users can be seen in this module in the format of username, email, last login, date joined, type, current status, change status. To change status of account, select type of account and click change status button.

		Use	raccess			
Username	Email	Last Login	Date Joined	Туре	Current Status	Change Statu
		May 18, 2023, 4:07 p.m.	May 18, 2023, 4:07 p.m.	SUPERADMIN ~	×	ø
		None	March 3, 2023, 2:15 a.m.	STAFF v	*	C
÷ •		May 23, 2023, 2:17 p.m.	July 5, 2022, 11:10 a.m.		~	ø
ne linke -	ad the Albert	April 28, 2023, 4 p.m.	Feb. 9, 2023, 1:49 p.m.	SUPERADMIN -	~	C
		July 5, 2022, 9:43 p.m.	July 5, 2022, 9:43 p.m.	SUPERADMIN -	~	C
	1 M M M	April 7, 2023, 6:58 p.m.	April 7, 2023, 6:58 p.m.	SUPERADMIN -	~	C
		Aug. 20, 2022, 6:48 p.m.	Aug. 20, 2022, 6:47 p.m.		~	C
-		Dec. 9, 2022, 3:43 p.m.	Oct. 17, 2022, 10:22 a.m.	SUPERADMIN ~	×	C
		April 11, 2023, 2:41 p.m.	April 11, 2023, 2:41 p.m.	SUPERADMIN ~	~	C
		None	May 14, 2023, 11:14 p.m.	STAFF v	×	ø
-		April 26, 2023, 3:33 p.m.	Feb. 9, 2023, 1:50 p.m.		~	C
		April 26, 2023, 3:39 p.m.	Feb. 9, 2023, 1:49 p.m.	SUPERADMIN -	~	C
		None	April 4, 2023, 11:40 a.m.	STAFF v	×	C
	and a second	May 17, 2023, 12:58 p.m.	Feb. 9, 2023, 1:51 p.m.	SUPERADMIN ~	~	c

//Tip: Internet must be in active/accessible/unblock state before
generating certificate. Wrong method/incorrect information
could lead to the fatal error / loss of connection. Contact Support
for emergency.

(FD)		
	GENERATE SELF SSL CERTIFICATE	
•	Enter Details	
*	Construction Email Address	
	Common Name	
-08	or and the second se	
	Country	
60	Locality	
	State / Province Name	
Land	AN Organization Name	
Q		
0	Ciganization Unit Name	
	GENERATE	
	ADD SSL CERTIFICATE	
	Enter Details	
	Paste Certificate Paste Key	

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Backup & Restore- all data and information can be retrieved. Device shall automatically be backup in network storage if connected else store locally. Restore shall be applicable for remote location only.

//Tip: for safety of data and optimum performance keep the backup at remote supportive storage. Storing in local storage could lead to crash/fatal damage if fully occupied.

Backup
Spaces are not allowed
Backup filename
Backup
Restore
Perform Clean Restore
~
Restore

⑤ Tip: Backup / Restore: This function will be disabled by default. Note: To enable network to backup/restore, enable Network backup first.

 Provisioning- Generally two methods are being used under provisioning stacking and replication. You can select either Active/Active or Active/Passive state as per the infra requirements.



// Tip: Check if your model support this function for Stacking and Replication.

 Network Storage- Hassle-free auto periodical backup the NMS data/configuration in the remote location for disaster recovery with restoration timestamp points. Mitigate the risk of data loss utmost.

Network Storage

Enter D	etails
PROTOCOL	
SFTP	~
IP	
None	
Username	
None	
Password	
Path	
None	

To connect with Network Storage like SAN/NAS/DAS/FTP; fill up the networking details and it's connection as mentioned above for basic details regarding protocol, IP, path etc. If you are not sure for the correct path. Fill-up the rest details and connect. If your details are correct you shall be able to see root/home directory to select.

 Audit Report- An Audit report for stats, methods, operations, and users with custom time duration. Save it in PDF format for audit and report purposes. Periodically report may be send to authorised admin through e-mail (domain only). Since, report is loaded with multimedia stats, graph, and charts. Before setup, user must validate the Mail attachment size capacity. Else, report may be failed to send to user due to oversize.

Select Range	•	×
	-05-24 🔻	
	Close	Generate Report





 Terminal- writing commands of actions particularly using Linux. Commands should be line commands to execute. For tech-support and device troubleshooting purposes.

// Tip: terminal is used to perform for fatal situation only.

Avoid general uses and tampering.



Easy track changes done in previous.

S.No	Command	Device	User	Execute At
1	ls	192.168.1.7	1	2023-04-07T16:29:34.499
2	ls	192.168.1.7	1	2023-04-07T16:30:11.839

 Administrator-multiple general configuration options for administrator to manage profile info, configuration, notifications, etc.



DMZ Mode- DMZ (Demilitarized Zone) mode is a network architecture concept that involves creating a separate network segment, typically located between an internal network and an external network (Between Firewalls). The purpose of a DMZ is to provide an additional layer of security by isolating publicly accessible services from the internal network. //Optional* feature, check your model.

Public IP Network:	
SUDNAL	
Gateway:	
DNS Server:	
Enable/Disable	○ Enable Disable

SMS- This is useful for sending notifications, alerts, or two-factor authentication codes to users' mobile devices. (ISP API Integration – Please check with Tech Support

Team).	<pre>//Optional** feature, check your model.</pre>
SMS Server URL :	
Type of Token:	Cpton1 v
Token:	
Content URL:	
Data:	
Session Re-Try:	1-24 Hours
	Upload

API Integration - Token: In the context of API integration, a token refers to an authentication token or access token. It is a unique string or token generated by the API provider and issued to a user or client application upon successful authentication.

Login URL:	
Type of Token:	Access tokens 🗸
Token:	
Content URL:	
Data:	
	Uprad
	//Optional* feature, check your model.

Settings - User profile alteration and updating.

Team).

=	Profile	Ð	M	۹	⊞	\$ 37167	← 12:25:58 O havk (superstrift)
æ		г					
٠				First Name		Hawk	Edit
(lı:				Last Name		Hawk	Edit
~				Bio		NO BIO	Edit
~				Image		Choose file No file chosen	Edit
69							
						Update	
Litt							
Ø							
0							
-							
						Made with 🧡 in 🞞	Copyright āKüs ITs 2022. All rights reserved

 Logout – logout the session of user (Default: Operator / Data Center groups have secured long session connectivity for Video wall monitoring/NOC/Command Center/Wall TVs).

<u>Asset Management: (DCIM)</u>

- Hawk Assets View
 - Holistic Hawk view for entire nationwide (Hawk M Series). Unlimited distributed / On-premises Infrastructure summary and quick links for redirection. Location based identification for your all assets. Hawk let you manage Assets in quick and easiest way.



Management



 Auto Discovery -IPv4/IPv6 (Hawk Scan) – Select your IP/ IP with CIDR network range segment and schedule to Hawk scan automatically in a periodical gap.

// Tip: Default is run now

- Here both two types of Ip addresses Ipv4 and Ipv6 can be added and scanned meanwhile displayed inside sample.
- Scanned list will be reflecting in few moments below the form. For better results refresh the page and come later. List will automatically bring new device in the discovered table. Device supports to Auto scan in periodically manner as per selection of frequency.

	Adio	Discovery		
IP Address	192.168.1.120	/24		Scan Now
Туре	Minutes		v	
Minutes			0	
Frequency shoul	ld be reasonable according to	size of range		
Frequency shoul Eg: Bigger range longer duration	ld be reasonable according to e requires more time to get re gap(Long range generate loa	size of range sponse from device d over device perfo	s. For better perfor mance). Search:	rmance keep
Frequency shoul Eg: Bigger range longer duration Device	ld be reasonable according to e requires more time to get re gap(Long range generate loa MAC Address	size of range sponse from device d over device perfo Vendor	s. For better perfor rmance). Search: Status	rmance keep Actions
Frequency shoul Eg: Bigger range longer duration Device 192.168.1.1	ld be reasonable according to a requires more time to get re gap(Long range generate loa MAC Address 5C:64:8E:DC:EB:07	size of range sponse from device d over device perfo Vendor	s. For better perfor rmance). Search: Status Trua	rmance keep Actions +

• Ad Hoc Search – Search and add an individual device with defined methods.

/// Tip : SNMP connection is base method.

Name of Device	
Host	
Туре	SNMP v1
Community String	
Username	hawk@akus.co.in
Password	*******

 Available devices – Selected devices from Auto discover and Adhoc request will be reflect in the available devices list. After finalizing methods and prerequisite details for device. Device is ready to be on-board in the Assets inventory. Click on Blue "+" and ip device with prefilled details will be landed to device adding wizard form directly.

														Search:		
Available	Devices														Refresh Data	
Device	Host	MAC Address	SNMP	NETAPI	RESTAPI	SSH	TELNET	SMTP	POP3	нттр	HTTPS	STATUS	CATEGORY	Device Added	Last Updated	Actions
EdgecorE	192.168.1.99	3C:2C:99:24:D3:21	✔ (v2)	*	×	*	*	×	*	*	*	•	None	15/09/2023 8:55 PM	15/09/2023 8:56 PM	+0.8
Gateway	192.168.1.1	5C:64:8E:DC:EB:07	*	*	×	×	*	*	*	*	*	•	None	15/09/2023 8:52 PM	16/09/2023 5:56 PM	+3.8
H1001	192.168.1.100	None	*	*	*	*	*	*	*	*	*	•	Trusted	25/09/2023 3 PM	25/09/2023 3:01 PM	+ @8
HAWK120	192.168.1.120	00:60:E0:8E:A7:92	*	*	×	*	*	*	*	*	*	•	Trusted	16/09/2023 5:53 PM	26/09/2023 6:14 PM	+218
LinuxLP	192.168.1.35	84:45:06:90:28:41	*	*	*	*	*	*	*	×	*	•	Trusted	22/09/2023 7:43 PM	26/09/2023 5:41 PM	+0.8
M-Pc	192.168.1.10	F8:5E:A0:15:D9:4D	*	*	*	*	*	*	*	*	*	•	None	20/09/2023 11:43 PM	20/09/2023 11:45 PM	+0.8
Showing 1 to	8 of 8 entries														Previous	1 Next

Retrieve Devices – Check Hawk Inventory of the added device capability

parameter details. Search/Select your device by name.

				R	letrieve Exsisting	Devices		
DEVICE20								
Device	Host	SNMP	NETAPI	RESTAPI	Alive	Device Added	Device Updated	
DEVICE20	192.168.1.20	×	×	×	•	2023-04-07T12:54:05.515	2023-05-23T20:58:11.385	

- Commissioning 4 Forms commissioning for your entire Infrastructure.
- Also supports for bulk actions through custom template creation for reusability.
- Preview option support to provide quick overview of filled details and screenshoot may use for commissioning processes/form.

- Templates shall be helpful to add small number of similar category of devices within common details.
- To add template after preview click add as template. However, filled details will add up device too.
- Forms should be filled in hierarchical way. As successive form inherit information from previous.
- After successful "ok" message convey add up of device in the NMS inventory completed.

	Add Data Center Rack(cabinet)		
Data Center	-Scloot Detecenter-	~	
Reck Row		~	
Raok Label / Tag			
Row Color			
Rack Type"	 Network	Gustomised	
Reck Type Information	420	~	
Special Notes			
Submit		Reset	
	Add Device (Equipment)		
			C
Quick Template	Create New or Select existing one		
Data Center	Select Datasenter	~	
Rack Row	Select Row	~	
Cabinet	Select Reck Cablest	~	
Unit Location	Select Unit Location	~	
Device Height	Beleat Device Height	~	
Device Asset Tag			
Device Description			
Type of Device	Sector: 1	~	
Maha-			
Model	PAGA		
Installation Date	dd mm soor		
Expiry Date	dd mm yoog		
	O Department O Project O Client		
Owner			
Owner			
Owner Power Supply	1		
Owner Power Supply Wattage (kwh)	1		
Owner Power Supply Waltage (kwh) Bjecial Notos	1 0.000		
Gwmer Prower Supply Wattage (kwfr) Bpeolal Notes	1		
Overeer Power Europhy Wettlage (kwh) Bipcolal Notes	1 0.000		
Gwmer Power Supply Vattage (hwh) Bipcalal Notes Add Device Tempdate	1 0.000 Add Davice Profess	Reset	
Gener Prover Susjenky Visituage (kivil) Benelal Noiss Add Confor Temeslat	1 0.000 Add Danke	Report	
Owner Prover Supply Violarge (kmh) Bipesial Notes Add Divide Tampiala	1 0.000 Add Dente: Prove	Next	

- Cables
- Stock Cable management and Stock summary. Cable Stock chart.

1 5	98 98 98 8°		Agarica Mirica 10						
				(sraph				
,008									
		Etherne	t Cables				Fiber	Cables	
		Etherne	t Cables				Fiber	Cables	
		Etherne	t Cables		· 300		Fiber	Cables	
		Etherne - 1	t Cables		3 100		Fiber -	Cables	
		Etherne - 1 201 204	t Cables	M17000	· Wro · · · ·	10 4 4 10	Fiber	Cables	M/ 500
		Etherne - 1 201 gen - 1 2000	r Cables	N TENN N TENN	3 West 	0) 4 4 4 0001900	Fiber	Cables ***	AL-Supp.
	0 10 10 8 8 (0 (0) 10 10 10 10 10 (0)	Etheme 	t Cables se	N 1104		9 p p (0) 901 (app) 100 100	Fiber	Cables	AL-1-1499 10/2000 10/2000
	0 100 10 10 100 100 100 100 100 100 100	Etherne 	e transmission of the second s	AV 10.004 AV 2009 AV 2009 AV 2009 AV 2009	3 WHE 	10 10 10 10 10 10 10 10	Fiber	rae rounn a 3	1013000 101000 101000 101000
	12 8 8 9 10 10 10 100 100 100 100	Etherne - [1 201 200 - [2 201 200 - [2 200 - [2 201 200 - [2 200 - [2 200	t Cables set	N 1100 2000 2000 2000 2000 2000 2000	5 VE	2 2 2 47 9974000 100 100 100 100 100	Fiber	Cables	Ar+149 Com Com Com Com Com Com Com Com
0000 0000 0000 000 000 000 000 000 000	2 10 10 10 10 10 10 10 10 10 10 10 10 10	Etherne 	* * * * * * * *	N 1155 10200 10200 10200 10200 10200 10200	3 WE 	P P P (4)	50 Fiber	Cables	A1-3-398 32-399 32-399 32-399 32-399 32-399 32-399 32-399
		Etherne 	* Cables ************************************	101 P4-00 102 T4-00 102 T00 102 T00	Non Non 1 1 2 1 3 1 4 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 8 8 (P)	Fiber	Cables	Ar 1446 6000 0000 0000 0000 0000 0000 0000

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- Connectivity Chart Patch panel P2P connectivity monitoring. Know realtime connectivity for your Patch panel and rack mount device. Let you identify and trace cabling quick and smooth. No need to physical visit and LAN tester tracing now.
- Manage Cable inventory sheet for cable asset management. To add new value in the cables please add new update quantity and click ok to update. Same procedure will be followed in Ethernet and Fiber cables both.
 - Ethernet Cables All general types of cables and length support
 - Fiber Cables All general types of cables and length support

License Management (LMS)

- Devices info Get devices license management at next level. Hawk auto prioritize the most device according to their support end-up for license. Your team will no more need to remember the confusing dates for renewal of licenses.
- Decommissioning of expired/unloaded device can be performed here.
- Archived EOL / Expired devices can be easily fetch and help you to plan accordingly.

Miscellaneous

 Decommissioning – Decommissioned device will be archived and remain to manage and record assets for capacity planning and inventory record.

		Dee	commissioning			
Server						~
Device	Type of device	Rack	Row	Datacenter	Decommission	
DEVICE20	Server	RACK 1	MAH - B	MAH	8	

 Power usage efficiency (PUE) – Download PUE certificate (For A,B, & C). Know live progress for your IT Infrastructure journey YoY and get certified by hawk. Stay advanced with Hawk and brings your efficiency upmost.

PUE Internati	onal Standa	PUE 47.65 rd Grade E Certified by HAWK N
PUE	DCiE	Level of Efficieny
3.0	33%	Very Inefficient
2.5	40%	Inefficient
2.0	50%	Average
1.5	67%	Efficient
1.2	83%	Very Efficient



Modules

Through different modules, hawk perform full sky monitoring and notify the challenges in realtime. Let's move on to explore each of them with their astonishing features in this section.

Network Monitoring (NMS)

- Network Summary All Network Devices Summary at top helps you to gather all information of module.
- Topology Advanced auto generated topology. Connectivity neighbor info, full view of actual traffic, Bandwidth capacity and consumption. Support all layer and level topology architecture. Wired & Wireless, Methodology based (SNMP, API etc),



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Orchestrator

To update bulk firmware updates and ACI bulk updates.

	<i>A</i>		
Network Type	Select Device		
Network Type	rake	Sele	st
Network Type Iv Devices Select All	Aake	Sele	ot
Network Type N N N N N N N N N N N N N N N N N N N	Aake	Sele	ət
Network Type N N N N N N N N N N N N N N N N N N N	Select Device	Sele 	ot

 Network Device(s) Dashboard – Further device dashboard is collection of all monitoring details, Threshold settings, device's console, Mark to personal dashboard, Depth details of ports, and management function.



IP ADDRESS	•	192.168.1.99		MAC ADDRESS	3C:2C:99:24:D3:21 (Ed	ecore Networks)
NAME		380072-3C2C9924	D3211	LATENCY	Host is up (0.038s later	cy).
DESCRIPTIO	DN .	ECS4100-12PH		Network Distance	1 hop	
LOCATION		Delhi NCR		OS CPE	cpe:/o:linux:linux_kerne	2.6
CONTACT		1800 309 9987		RTT		
PORT			STATE	SER	VICE	
22/tcp			open	ssh		
23/tcp			open	teine	et	
80/tcp			open	http		
443/tcp			open	http:	s	
Top 5 ALERI	rs All Alerts					
ID	Created At		Message			Severity
2	2023-09-11T01:35:44	188	192.168.1.99	has high Bandwidth		high
1	2023-09-11T01:35:44	186	192.168.1.99	has high Bandwidth		high
UPTIME		Total Interfaces	Admin Status	Port Stebus	Trafric IN / OUT (Octet)	UDatagram IN / Out (Octet)
1D 8H :	50M:21S	18	↑ 18 ↓ 0 ⊘ 0	↑ 18 ↓ 0 ⊘ 0	630.55 MB/64	0.42 /
Round Trip Tim	ne (ms)	Jitte	r	Latency (s)	MB	kets
0.22 0.20 0.18 0.16	RAT	10	45 Jitter 40 35	0.045	ncy 538 536 534 532 530 530	IN OUT

Device Dashboard Monitoring – Real-time/historical Stats of

devices interfaces/services/configuration details and features

like switchport administration etc.

To enable and disable for a managed switch/router may be achieved to click on interface Admin port status icon and select your option to implement. If port status has not changed after the implementation. Check your device compatibility and config. //Tip: Configuration of switchport is applicable through Mode like SNMP, Netconf etc. Device must be capable to be managed through the desired protocols. To know the capability of device check device OEM supportive documents.

WAN THRESHOLD	NAME	DESCRIPTION	ADMIN	PORT	MTU (Int)	SPEED (Gauge32)	IN OCTET (Counter32)	OUT OCTET (Counter32)	ERROR IN / OUT (Counter32)	DISCARD PKTS (Counter32)	IN / OUT MULTICAST PKT! (Counter32)
	Ethernet Port on unit 1, port 1		•	•	1518	1000000000	1010148	141652126	0/0	0	53/119017
	Ethernet Port on unit 1, port 2		•	•	1518	1000000000	289792052	1109481812	0/0	0	8180 / 110896
	Ethernet Port on unit 1, port 3		•	•	1518	1000000000	1686587808	1765334288	0/0	0	845 / 118240
D	Ethernet Port on unit 1, port 4		•	•	1518	1000000000	2387438000	1557598708	0/0	0	8080 / 111009
	Ethernet Port on unit 1, port 5	uplinkport	•	•	1518	1000000000	0	0	0/0	0	0/0
•	Ethernet Port on unit 1, port 6		•	•	1518	1000000000	0	0	0/0	0	0/0
Select Admin Status of Interface Ethernet Port on unit 1, port 2											

 Device Terminal (Telnet / SSH) – Advance web Terminal To get the access for authorised device generate ticket. This request will be forward to Authorised account (Admin) to be approved. Once request is approved, user is authorised to access device terminal console with advance privileged over Web-GUI.

OK Cancel

 Mark Favorite – Mark your device in personal monitoring dashboard.



• Custom Threshold – Hardware/Interfaces/WAN/LAN custom

Service	Threshold	Action
CPU	78.0	Change Reset
RAM	89.0	Change Reset
SWAP	89.0	Change Reset
STORAGE	60.0	Change Reset
Intel(R) Wireless-Ac 9560 160mhz	345	Change Delete
Microsoft Km-Test Loopback Adapter	0	Change Delete
Microsoft Teredo Tunneling Adapter	0	Change Delete
Wan Miniport (Ip)-Qos Packet Scheduler-0000	0	Change Delete
Microsoft Wi-Fi Direct Virtual Adapter #4-Qos Packet Scheduler-0000	0	Change Delete
Microsoft Wi-Fi Direct Virtual Adapter #4-Native Wifi Filter Driver-0000 �	0	Change Delete
Intel(R) Wireless-Ac 9560 160mhz-Wfp Native Mac Layer Lightweight Filter-0000	60	Change Delete
Microsoft Wi-Fi Direct Virtual Adapter #3-Wfp 802.3 Mac Layer Lightweight Filter-0000	1	Change Delete
Microsoft Wi-Fi Direct Virtual Adapter #4-Wfp 802.3 Mac Layer Lightweight Filter-0000	0	Change Delete

 thresholds help you to get alert notification with set value/percentage. To enable wan link monitoring click on check

box shown threshold window. Interface has been added. To validate check the interface background as shown highlighted background for interface.

• Syslog/config_changes(difference)/All alerts/Traps/Flow

System Logs	Send As Email Export in Excel											
	Sytem Lo	g All Alerts Config File										
	Alerts Send As Email Export in Excel											
ID	Date	Message	Severity									
1	2023-09-06T09:01:15.947	127.0.0.1 has high storage usage	high									
2	2023-09-06T22:38:22.189	127.0.0.1 has high storage usage	high									
5	2023-09-07T16:48:53.655	127.0.0.1 has high storage usage	high									
8	2023-09-07T17:48:09.822	127.0.0.1 has high storage usage	high									
11	2023-09-07T17:51:20.336	127.0.0.1 has high storage usage	high									
14	2023-09-07T17:52:16.781	127.0.0.1 has high storage usage	high									
17	2023-09-07T17:56:03.221	127.0.0.1 has high storage usage	high									
18	2023-09-07T18:02:12.096	127.0.0.1 has high storage usage	high									

//Tip: device capability configuration must be supportive and

enabled. Please check device documentations to verify.



- Custom Polling Setup business / non-business / custom monitoring (Polling) hours to avoid load generation over critical busiest devices.
- Custom OID Add / Set additional OID from MIBs to enable enhance monitoring and Management. Only compatible for device OID are capable to add-on. Refer device's MIBs and firmware compatibility.

	Add MIB OIDs		×
	Enter OID		
	.1.3.6.1.2.X.X.X.X		
	Title		
	InterfaceTime		
	Туре		
	Single		~
	OID Datatype		
	Time Tick		~
		Close A	dd OID
6 Tip: ★			
ly Dash: Set a persona is personal favorite da	l dashboard. User can select any device dashbo shboard by marking Star to them.	ard in	
Devices will start appea	ring in your Personal dashboard immediately.		
lote: Keep Critical dev	ices in your personal monitoring for better focu	IS	

IP Status (Other)

- Status of individual devices are represented through pictures, on behalf of name and Ip addresses.
- Searching of particular asset from the above top tool bar

Add your non-IT devices /IT devices directly in this module for Quick monitoring.

≡	IP Device	0	M	۹	▦	\$ 26		÷	2:51:50	B	hawk (superadmin)
đ			Q Search De	evices Asset Tag		AI IP A	DD NEW DEVICE				
٠											
(îı						Nai	ne				
¢,						Тур	ре РС				~
æ							Submit				
0)))											
101	Printer										+
G	AV Panel										+
	PC										+
	IP Phone										+
	Camera										+

Server Monitoring

- Servers Summary All servers Device Summary at top helps you to gather all information of module.
- Server(s) Dashboard Further device dashboard is collection of all monitoring details,
 Application performance and management function.



• Device Dashboard



P ADDRESS 127.0.0.1							Loar	ting System Information						
NAME LAPTOP-G7GCRBL0														
ESCRIPTION Hardware: Intel64 Far	nity 6 Model 142 Stepping 12 ATIAT CO	OMPATIBLE - S	Software: V	Windows	: Version 6.3 (Build	122621 Multiprocess	or Free)							
OCATION New Delhi														
CONTACT +91 /982019845														
Created At						Message						Severity		
60 2023-09-1077	22:28:16:409					127.0.0.1	has high Bandwidth					high		
67 2023-09-1017	22.28.16.408					127.0.0.1	has high storage usa	ige				high		
8D 12H : 28M : 49S	43				↑ 36 ↓ 7 Ø	0	↑ 4	3 ↓ 0 ⊘ 0		213.4 MB		75.19 MB		
mp	STORAGE				IOWAT		CPU	5		RAM		SWAP MEMORY		
CPU Tamp	_	Storage Used			_	Total Used	1.D	Cpu USIa	ation	Totol	Used	1561	Used	
1							0.5							
5							0							
0							-1.0							
40							CPU	Core						
	 8	tem Utilization					10	-	Core 0 Core 1	Core 2 Core 3	Core 4 Core 8	Core 6 Core 7		
• •	• •	•		•	•	•	• •			_				
							4			Core L	Nilation			
	+ +	÷.	1	1	1									
	1 1	i	1	1	1		*							
		1		•	5		*			IN / OUT	IN / OUT			
AME	DESCRIPTION	ADMIN	PORT	MTU (Int)	speed (Gauge32)	IN OCTET (Counter32)	OUT OCTET (Counter32)	ERROR IN / OUT (Counter32)	DISCARD PKTS (Counter32)	IN / OUT MULTICAST PKTS (Counter32)	IN / OUT BROADCAST PKTS (Counter32)	MAC	LAST CHANGE	
IAME	DESCRIPTION	i ADMIN I	PORT	MTU (Int) 1500	1 SPEED (Gauge32) 1073741824	IN OCTET (Counter32)	OUT OCTET (Counter32) 0	ERROR IN / OUT (Counter32) 0 / 0	DISCARD PKTS (Counter32) 0	IN / OUT MULTICAST PKTS (Counter32) 0 / 0	IN / OUT BROADCAST PKTS (Counter32) 0 / 0	MAC	LAST CHANGE	
AME	1 1 DESCRIPTION Loopback Pseudo-Interface 1 604 Adapter	ADMIN I	PORT	MTU (Int) 1500	1 (Gauge32) 1073741824	IN OCTET (Counter32) 0	CUT OCTET (Counter32)	ERROR IN / OUT (Counter32) 0/0	DISCARD PKTS (Counter32) 0	IN / OUT MULTICAST PKTS (Counter32) 0 / 0	IN / OUT BROADCAST PKTS (Counter32) 0 / 0	MAC	LAST CHANGE 0	
IAME Collware Loopback Interface 1 Atcrosoft Elo4 Adapter	DESCRIPTION Loopback Pseudo-Interface 1 6bd Adapter Ethernet	ADMIN I	PORT	MTU (Int) 1500 0	1 SPEED (Gauge32) 1073741824 0 0	IN OCTET (Counter32) 0 0	CUT OCTET (Counter32)	ERROR IN / OUT (Counter32) 0/0 0/0	DISCARD PKTS (Counter32) 0 0	IN / OUT MULTICAST PKTS (Counter32) 0 / 0 0 / 0	IN / OUT BROADCAST PKTS (Counter32) 0 / 0 0 / 0	MAC	LAST CHANGE 0 0	
AME Coffware Loopback Interface 1 Incrosoft Bio4 Adapter SIX AVGB772B USE2 0 to Fast Internel Adapter	1 1 DESCRIPTION Loopback Pseudo-Interface 1 604 Adapter Ethernet	ADMIN I	PORT	MTU (Int) 1500 0	sPEED (Gauge32) 1073741824 0 0	IN OCTET (Counter32) 0 0	CUT OCTET (Counter32) 0 0 0	ERROR IN / OUT (Counter32) 0/0 0/0 0/0	DISCARD PKTS (Counter32) 0 0 0	IN / OUT MULTICAST PKTS (Counter32) 0 / 0 0 / 0 0 / 0	IN / OUT BROADCAST PKTS (Counter32) 0 / 0 0 / 0 0 / 0	MAC	LAST CHANGE 0 0	
AME Offware Loopback Interface 1 Increase Edo4 Adapter SIX AV68F728 UB2.0 to Fast ImmeriA Adapter WAN Inniport (PPPOE)	1 1 DESCRIPTION Loopbark Pseudo-Interface 1 Bible Adapter Ethernet Local Area Connection 9	ADMIN C	PORT	MTU (int) 1500 0 1494	s PEED (Gauge32) 1073741824 0 0 0	IN OCTET (Counter32) 0 0 0 0	Survey of the second se	ERROR IN / OUT (Counter32) 0/0 0/0 0/0 0/0 0/0	DISCARD PKTS (Counter32) 0 0 0	N/OUT MULTICAST PKTS (Counter32) 0/0 0/0 0/0 0/0	IN / OUT BROADCAST PKTS (Counter32) 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0	MAC	LAST CHANGE 0 0 0 0	
AME offware Loopback Interface 1 Increased Elot Adapter SIX AV867728 USB2 0 to Past Internet Adapter WAN Miniport (PPPOE) WAX Miniport (PPPOE)	1 1 DESCRIPTION Looptark Pseudo-Interface 1 Stod Adapter Ethernet Local Area Connection' 9 Local Area Connection' 11	ADMIN I	PORT	MTU (int) 1500 0 1494 1500	s PEED (Gauge32) 1073741824 0 0 0 0	IN OCTET (Counter32) 0 0 0 0 0	> OUT OCTET (Counter32) 0 0 0 0 0 0 0 0 0 0 0 0 0	ERROR IN / OUT (Counter32) 0/0 0/0 0/0 0/0 0/0 0/0	DISCARD PKTS (Counter32) 0 0 0 0 0 0	N/OUT MULTICAST PKTS (Counter32) 0/0 0/0 0/0 0/0 0/0	N / OUT BROADCAST PKTS (Counter32) 0/0 0/0 0/0 0/0 0/0 0/0	MAC	LAST CHANGE 0 0 0 0 0 0	
AAME Collarse Loopback Inferface 1 Acrosoft Elod Adapter Silterinel Adaptier Silterinel Adaptier UAU Mimport (PPPOE) UAU Mimport (PPO) UAU Mimport (PPO) UAU Mimport (PHO) Acrosoft P-11TPS Flatform Silterinel	Cost Area Connection 9 Local Area Connection 9	1 ADMIN 1 0 0 0 0 0 0 0 0 0 0 0 0	PORT	MTU (int) 1500 0 1494 1500 0	1 (Gauge32) 1073741824 0 0 0 0 0 0	IN OCTET (Counter32) 0	♥ OUT OCTET (Counter32) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ERROR IN / OUT (Counter32) 0/0 0/0 0/0 0/0 0/0 0/0 0/0	DISCARD PKTS (Counter32) 0 0 0 0 0 0 0 0 0	N/OUT MULTICAST PKTS (Counter32) 0/0 0/0 0/0 0/0 0/0 0/0 0/0	IN / OUT BROADCAST PKTS (Counter/22) 0 / 0 0 / 0	MAC	LAST CHANGE 0 0 0 0 0 0 0	
AAME Cofbarre Loopback Interface 1 Accessof Gio Astapter Valk Magnet (PPVC) Valk Mingoot (PPVC) Valk Mingoot (PPVC) Valk Mingoot (PPVF)	Cost Area Connection 9 Local Area Connection 9 Local Area Connection 9 Local Area Connection 11 Microsoft P-HTTPS Pattom Interface Local Area Connection 9	ADMIN 1	PORT	MTU (Int) 1500 0 1494 1500 0	1 SPEED (Gauge32) 1073741824 0 0 0 0 0 0 0 0 0 0 0 0 0	IN OCTET ((Counter32)) 0 0 0 0 0 0 0 0 0 0	COUTOCTET (Counter32) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ERROR IN / OUT (Counter32) 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0	DISCARD PKTS (Counter32) 0 0 0 0 0 0 0 0 0 0 0	IN / OUT MULTCAST PKTS (Counter32) 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0	IN / OUT BROADCAST PKTS (Counter/22) 0 / 0 0 / 0	MAG	LAST CHANGE 0 0 0 0 0 0 0 0 0 0	
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AME Container Logoback Interface 1 Container Logoback Container Conta	A Adapter Dis GORP/TON Lopptate/Preudo-Infertier Harmet Ethernet Local Area Connection* 91 Local Area Connection* 11 Metricice Local Area Connection* 1 Local Area Connection* 3 Local Area Connection* 3 Local Area Connection* 7 Local Area Connection* 7 Local Area Connection* 7 Local Area Connection* 7		PORT	MTU (int) 1500 0 1494 1500 0 1464 1500 0 1500 1460 0	* * * * * * * * * * * * * * * * * * *		UT OCTET (Counterd2) 0	ERROR N/ OUT (Counter32) 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/	DISCARD PYTS (Counter32) 0	II / OUT NULICASTPICTS (Counted2) 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/	II OUT BIROADCASTPICTS (COUNTRE22) 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/	NAC 128.50,83.32,218,119 128.50,83.32,218,119	LAST CHANGE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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- Device Terminal (SSL) Session are under change management control for authorised and privileged users only.
- Mark Favorite Add device in your personal dashboard for day/night monitoring.
- Threshold Setting Add custom threshold to monitor and control utilization of servers/vm/chassis.
- System Logs/Kernel/Auth Logs/Traps Granular information from devices with respective category and Severity.
- Custom OID Add / Set additional OID from MIBs to enable enhance monitoring and Management.

00 400 4 45						
92.106.1.40						
			Enter D	atabase Details		
	IP Addre	ss Use	mame	Password	5432	submit
То	tal Tables	т	otal Databases	Active Conn	ections	Total Storage
	209		5	0		17172.949999999997MB
			Data	h Ot - t -		
			Data	base Stats		
Database	Size	Active Connections	Records Inserted	Records Updated	Records Deleted	Records Fetched
postgres	192 MB	4	2529091	288431	1770403	376425562
bluetail	10 MB	2	2427	264	96	2452018
template1	8553 kB	0	0	0	0	2665136
template0	8401 kB	0	0	0	0	0
			Tal	ble Stats		
Database						Size
		D	ublic diango, db. logger, stat	tuslog		159 MB
		P		lusiog		130 MD
		public	c.dasnboard_mydevicesnmp	ointerface		6792 kB
		public.c	ashboard_snmpinterfaceda	itacollection		6352 kB
			oublic.tracking_analyzer_tra	icker		3480 kB

Storage Monitoring (SCM)

- Storage Summary All storage Device Summary at top helps you to gather all information of module.
- Storage(s) Dashboard Further device dashboard is collection of all monitoring details and management function.

Total Asset Devices	Total Capacity 1	Total Inbound 521.00 MB	Total Cutbound 1036.00 MB	Total Interfaces 110	Total Wattage 44.06				
Top 5 CPU Usage			Top 5 Busy Devices						
WEEKLY STATS	Memory stats 0 0 0 0 0 0 0 0 0 0 0 0 0	Devices STATS	DATA STATS 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	UO STATS 10 5. 0 45 10 10 10 10 10 10 10 10 10 10	STORAGE SUMMARY				
Select Device:									
Select Device					~				

Database Monitoring (DBM)

- DB Summary All Databases Summary at top helps you to gather all information of module.
- DB(s) Dashboard Further device dashboard is collection of all monitoring details and management function.
- Application Performance Monitoring (APM)

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0 Running Services	0 Stopped Services	0 Failed Services
	Establish Connection Select Device	
	Packages Correct	
	Application Status	

 Search Application – select desired server from hawk provided drop down. Enter your desired service/ application and immediately you'll get status and chart for applications service. Mark favorite to add in permanent dashboard.

E	Establish Connection	
Select Device		
192.168.1.35		~
Packages		
	Connect	

Application Status

Service	cron	× Service	snmpd	×				
Status	RUNNING	Status	RUNNING					
_	Auto Correct		Auto Correct					
e cron service - F	Regular background program processing daemon	e snmnd s	Service - Simple Network Management Protocol (SNMP) Daemon					
Loaded: loaded (abled) Loaded: lo	oadad //iib/evstam/evstam/enmnd sanvica: anablad: vandor prasat: anablad	,				
Active: active (ru	uning) ainas Wed 2022 07 06 10:00:55 UTC: 25 16min are	Active: act	tive (number) since Wed 2022 07 06 10:00:EE LITC: 2h 16min are					
Active: active (ru	inning) since wed 2022-07-00 10.00.55 010, 211 101111 ago	Active: act	ave (running) since wed 2022-07-00 10.00.55 0 10, 211 10min ago					
Memory: 8.5M		Memory: 1	11.110					
Service	nginx	× Service	apt-daily	×				
Status	RUNNING	Status						
		_						
	Auto Correct		Auto Correct					
• nginx.service -	A high performance web server and a reverse proxy server	 apt-daily. 	y.service - Daily apt download activities					
Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: er	nabled) Loaded: lo	Loaded: loaded (/ilb/systemd/system/apt-daily.service; static; vendor preset: enabled)					
Active: active (ru	inning) since Wed 2022-07-06 10:00:55 UTC; 2h 16min ago	Active: ina	Active: inactive (dead)					
Main PID: 847 (ng	ginx)	TriggeredE	TriggeredBy: • apt-daily.timer					
Service	systemd-networkd-wait-online	× Service		×				
Status	FAILED	Status						
	Auto Correct							
• systemd-netwo	orkd-wait-online.service - Wait for Network to be Configured	• dmesg.se	service - Save initial kernel messages after boot					
Loaded: loaded (/lib/systemd/system/systemd-networkd-wait-online.service; e	nabled; Loaded: lo	oaded (/lib/systemd/system/dmesg.service; enabled; vendor preset: enabled))				
vendor preset: er	nabled)	Active: ina	active (dead) since Wed 2022-07-06 10:00:59 UTC; 2h 16min ago					
Active: failed (Re	esult: exit-code) since Wed 2022-07-06 10:00:54 UTC; 2h 16min	n ago Main PID: 1	1231 (code=exited, status=0/SUCCESS)					

Application Chart – View server summary for applications and status



Web Monitoring (WSM)

 Easiest way to monitoring Urls and your critical websites with Global connectivity check and security status. Unique Bucket graph Track timeline performance of Url through time line chart. Bucket Dashboard is monitored with strong analytic concept to help you to focus on problems first.



CDN Monitoring (* Optional* feature API Integration with various Service Provider)
 Now monitor your CDN Web services through Open CDN and API Integration.

//*Tip : CDN requires Internet to perform operation.

CDN LINKS		•
Names	CDN Links	
Akamai	.edgekey.net	
Akamai	.akamaitechnologies.fr	
ALL PAGES		0
KEYWORDS		0
OTHER		0

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Reports:

		Керог				
SERS		DEVICES		MANAGEM	ENT	
MODAL NAME	ACTION	MODAL NAME	ACTION		MODAL NAME	ACTION
User Profile	Export	Devices	Export		Device Capability	Export
License	Export	Other Devices	Export	D	iscovered IP Devices	Export
					Cables	Export
					Websites	Export
ATA		DATACENTER		ALERTS		
MODAL NAME	ACTION	MODAL NAME	ACTION		NODAL NAME	ACTION
Appliance Data	Export	Datacenter Rows	Export		Notifications	Export
Dashboard Data	Export	Datacenter Racks	Export		Tickets	Export
SNMP Data	Export	Datacenter	Export	Ti	erminal Tickets	Export
127.0.0.1.csv	Export					
Fields Name	Export	Data				
Fields Name	Epot	Data	created_at	value	type	valueArr
Fields Name	Epot	Data 1 2022-07	created_at 7-14177 1248.007	value 1	type svrap	value&rr 0 012 14
Fields Name	Eppt	Data 1 2022-07 2 2022-07	244164_14 2-417712240.007 2-417712240.001	value 1	type svap storage	value&rr 0 01 2 14 16 27 60 99
Fields Name	Egon	Data 1 2022-07 3 2022-07	created_at F-41797 12.48.087 F-41797 12.48.091 F-141797 12.48.094	value 1 1	type skap skage ovent	valueArr 0 012.14 18.27.00.09 2.0
Fields Name	Espot	Data 1 2022-01 2 2022-01 3 2022-01 4 2022-01	2424960_24 7.41777.12.48.007 7.41777.12.48.009 7.41777.12.48.004 7.41777.12.48.004	value 1 1 1 1 1	type skrap skrage boeat cputit	valueArr 0.012.14 18.270.090 2.0 32.0
Fields Name	Egyn	Data 1 2022-07 2 2022-07 3 2022-07 4 2022-07 5 2022-07	2449660 24 7-44157 12 48 097 7-44157 12 48 091 7-44177 12 48 091 7-44177 12 48 097 7-44177 12 48 097	value 1 1 1 1 1 1	D(2+ sxep storage boeat cpucht rans	valueArr 0.01.2.14 10.27.00.99 2.0 32.0 1.95.4.31
Fields Name	Egot	Data Id 000000000000000000000000000000000000	540360_41 5-4117/12:48:007 5-4117/12:48:001 5-4117/12:48:004 5-4117/12:48:003 7-4117/12:48:003	value 1 1 1 1 1 1 1 1 1	N2+ skap skap bosat cputat ran nas	valueArr 0.01.2.14 18.27.80.90 2.0 3.20 1.85.4.31 0.047.0.04
Fields Name Id created_at ype valueArr	Egot	Data 1 2022.07 2 2022.07 3 2022.07 4 2022.07 5 2022.07 6 2022.07 7 2022.07	274460_48 C-4177112-48.007 C-4177112-48.009 C-4177112-48.009 C-41777112-48.007 C-41777112-48.007 C-41777112-48.105 C-41777112-48.105	value 1 1 1 1 1 1 1 1 1 1	bp# swap slorage bowait cpucial carai corai carai carai carai carai carai carai carai cara	valueArr 0012.14 1827.00.99 2.0 3.20 1.054.31 0.047.0.04 5.00.01.0.20
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