

TacticalRMM-functional combing










TacticalRMM-functional combing

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Device operation

Summary

Output hardware information, hardware check status and disks information

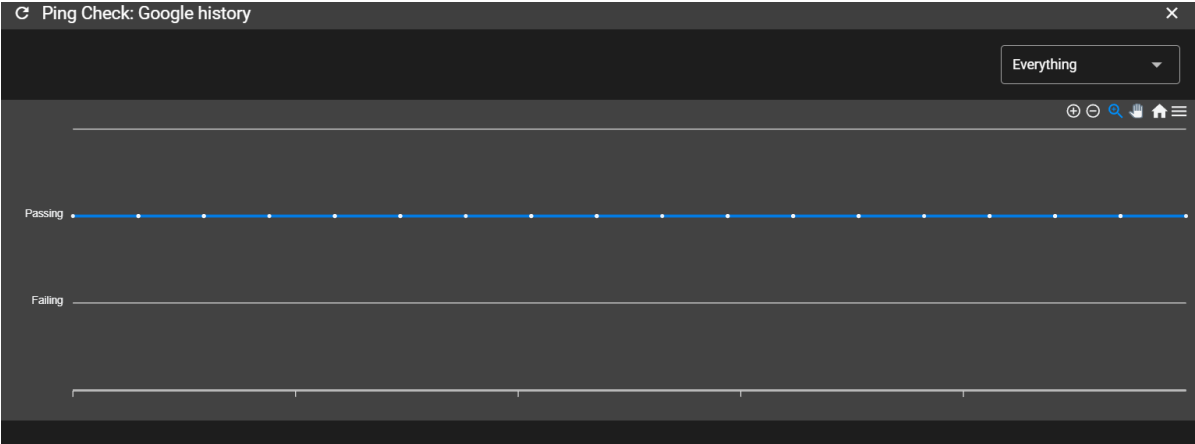
Hardware Details		Checks Status	Disks
	Gigabyte Technology Co., Ltd. X570 AORUS ULTRA	<div> 9 checks passing</div>	C: (NTFS) <div><div></div></div> 343.3G free of 465.3G
	AMD Ryzen 9 3900X 12-Core Processor		D: (NTFS) <div><div></div></div> 745.2G free of 1.8T
	4 GB RAM		F: (NTFS) <div><div></div></div> 1.2T free of 1.8T
	Microsoft Storage Space Device 1,900GB SCSI		
	WDC WD60EFRX-68MYMN1 5,589GB IDE		
	Samsung SSD 860 EVO 500GB 466GB IDE		
	NVIDIA Quadro P520, Intel(R) UHD Graphics 620		
	Public IP: 74.123.43.5		
	LAN IP: 192.168.10.149, 192.168.10.114		

Checks

Output the result of maintenance script

Run Checks Now					
		Description	More Info	Last Run	Assigned Tasks
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Disk Space Check: Drive C: - Warning Th...	Show Run History Total: 498.7GB, Free: 287.4GB	Jun-08-2023 03:31	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Ping Check: Google	Show Run History Last Output	Jun-08-2023 03:31	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> CPU Load Check - Warning Threshold: 70%...	Show Run History	Jun-08-2023 03:31	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Memory Check - Warning Threshold: 70% E...	Show Run History	Jun-08-2023 03:31	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Script Check: Check storage pool health...	Show Run History Last Output	Jun-08-2023 03:31	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Script Check: Check Network Location Awa...	Show Run History Last Output	Jun-08-2023 03:31	Restart NLA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Script Check: Clear Print Spooler	Show Run History Last Output	Jun-08-2023 03:31	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Service Check: Print Spooler	Show Run History Status RUNNING	Jun-08-2023 03:31	

Show run history



Show last output history

Ping Check: Google

Pinging 8.8.8.8 with 32 bytes of data:

Reply from 8.8.8.8: bytes=32 time=28ms TTL=116

Reply from 8.8.8.8: bytes=32 time=26ms TTL=116

Reply from 8.8.8.8: bytes=32 time=29ms TTL=116

Reply from 8.8.8.8: bytes=32 time=23ms TTL=116

Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 23ms, Maximum = 29ms, Average = 26ms

OK

Tasks

Output situation of tasks working(Only support on Windows)

Add Task								
		Name ↑	Sync Status	More Info	Last Run Time	Schedule	Assigned Check	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Clear the print spooler	Synced with agent	output	Jun-08-2023 03:31	Daily at 07:41PM		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Restart NLA	Synced with agent	output	Jun-08-2023 03:31	Every time check fails	Script Check: Check Network Location Awa...	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	show temp dir files	Synced with agent	output	Jun-08-2023 03:31	Manual		

Patches

Output patches situation of Windows(Only support on Windows)

Support CSV output

Severity	Name	More Info	Installed On
Other	2020-07 Cumulative Update for Windows Server 2019 ...	Install this update to resolve issues in Windows....	
Critical	2020-07 Cumulative Update for .NET Framework 3.5, ...	A security issue has been identified in a Microsof...	
Other	SQL Server 2019 RTM Cumulative Update (CU) 5 KB455...	CU5 for SQL Server 2019 RTM upgraded all SQL Serve...	
Critical	2020-06 Security Update for Adobe Flash Player for...	A security issue has been identified in a Microsof...	
Important	Security Update for Microsoft Office 2010 (KB44843...	A security vulnerability exists in Microsoft Offic...	
Other	Windows Malicious Software Removal Tool x64 - v5.8...	After the download, this tool runs one time to che...	
Important	Security Update for Microsoft Office 2010 (KB44842...	A security vulnerability exists in Microsoft Offic...	
Other	Microsoft Silverlight (KB4481252)	Microsoft Silverlight is a Web browser plug-in for...	

Software

Software installed information of system(Only support on Windows)

Support CSV output

Name	Publisher	Installed On	Size	Version
64 Bit HP CIO Components Installer	HP Inc.	2020-10-08 00:00:00 +0000 UTC	865.3 kB	22.2.1
7-Zip 19.00 (x64)	Igor Pavlov	0001-01-01 00:00:00 +0000 UTC	5.2 MB	19.00
Active Directory Authentication Library for SQL Server	Microsoft Corporation	2019-06-08 00:00:00 +0000 UTC	3.3 MB	15.0.1300.359
Adobe Acrobat Reader DC	Adobe Systems Incorporated	2020-11-25 00:00:00 +0000 UTC	369.9 MB	20.013.20066
Adobe Refresh Manager	Adobe Systems Incorporated	2020-11-24 00:00:00 +0000 UTC	1.9 MB	1.8.0
AlteryxProductName	Alteryx	2020-04-08 00:00:00 +0000 UTC	2.4 GB	2020.1.2.24185
Amazon Redshift ODBC Driver 64-bit	Amazon Corporate LLC	2019-06-24 00:00:00 +0000 UTC	38.0 MB	1.3.7.1000
Browser for SQL Server 2016	Microsoft Corporation	2020-05-28 00:00:00 +0000 UTC	10.9 MB	13.2.5026.0

History

Output history of script work

Support CSV output

Time	Action	Script/Command	Initiated By	Output
Jun-08-2023 03:31	Script Run	Clear Print Spooler	system	Output
Jun-08-2023 03:31	Cmd Run	ping google.com	demo	Output

Assets

Output device assets

Include: CPU, Memory, USB, BIOS etc.

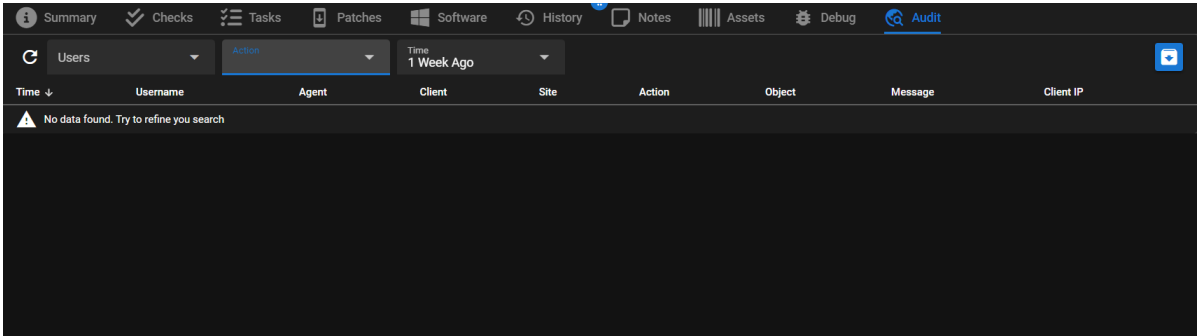
(Only support on windows)

Operating System	CPU	Memory	USB	Bios	Disks	Computer System	Motherboard	Computer System Product	Network Config	Graphics	Monitors	Network
BootDevice:	\Device\HarddiskVolume5											
BuildNumber:	17763											
BuildType:	Multiprocessor Free											
Caption:	Microsoft Windows Server 2019 Standard											
CodeSet:	1252											
CountryCode:	1											
CreationClassName:	Win32_OperatingSystem											
CSCreationClassName:	Win32_ComputerSystem											
CSName:	VMHOST-123456											

Audit

Audit user's action on device

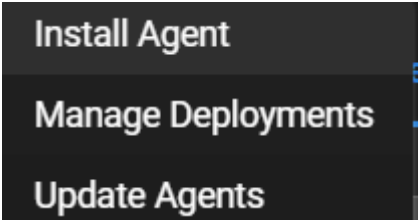
Support CSV output



Agents

Agents management

about agents install/update/manage



Install Agent

At first, we must choose site and client

Then choose Server or Workstation

If we choose windows, we can open RDP and enable ping

There are three installation method: exe, PowerShell, Manual

Client
Company 1

Site
HQ1

☒ Windows ☐ Linux ☐ macOS

☒ Server ☐ Workstation

Token expiration (hours)
24

☐ Enable RDP ☐ Enable Ping

Arch

☒ 64 bit ☐ 32 bit

Installation Method

☒ Dynamically generated exe ☐ Powershell ☐ Manual

The install on Linux and MacOS are simple

☐ Windows ☒ Linux ☐ macOS

☐ Server ☒ Workstation

Token expiration (hours)
24

Arch

☒ 64 bit ☐ 32 bit ☐ ARM 64 bit ☐ ARM 32 bit (Rasp Pi)

The admin should download the application/script to make it work

Deploy managements

I do not make sure how it work, it seems to provide a link to download the agents

it can be add/delete operation

Manage Deployments							
+ NEW							
Client	Site	Type	Arch	Expiry	Created	Flags	Download Link
Company 1	HQ1	server	amd64	Nov-16-2023 17:21	Oct-17-2023 17:21	View Flags	COPY
1-1 of 1							

Update Agent

update the agent which has been installed

Update Agents

Agents will automatically self update at 35 min past the hour, every hour. Use this tool to manually trigger an agent update cycle.

Select Version
2.4.9

Select Agent

☐ Select All

- ☒ db-aws-01 (Company 1 > HQ1)
- ☐ db-aws-01 (Company 1 > HQ1)
- ☐ db-aws-01 (Company 1 > LA Office 1)
- ☐ db-aws-01 (Company 1 > NY Office 1)
- ☐ db-aws-01 (Company 2 > HQ2)
- ☐ db-aws-01 (Company 2 > HQ2)
- ☐ db-aws-01 (Company 2 > LA Office 2)

View

Pending actions

Recent tasks or checks

All Pending Actions

SHOW 9 COMPLETED

Type	Due	Description	Agent	Client	Site
	Nov-07-2023 16:55	Device pending reboot	db-aws-01	Company 4	NY Office 4
	Apr-04-2024 17:41	Device pending reboot	FSV-2	Company 1	NY Office 1
	Jan-03-2024 07:28	Device pending reboot	Karens-MacBook-Air.local	Company 1	NY Office 1
	Feb-19-2024 17:33	Device pending reboot	FSV-2	Company 5	HQ5
	Dec-29-2023 07:37	Device pending reboot	DESKTOP-12345	Company 3	NY Office 3
	Feb-09-2024 10:18	Device pending reboot	db-aws-01	Company 3	NY Office 3
	Nov-07-2023 02:11	Device pending reboot	LAPTOP-55443	Company 4	HQ4
	May-18-2024 22:10	Device pending reboot	Karens-MacBook-Air.local	Company 6	LA Office 6
	Dec-03-2023 17:06	Device pending reboot	FSV-1	Company 1	HQ1
	Apr-04-2024 01:41	Device pending reboot	FSV-1	Company 6	LA Office 6
	Feb-02-2024 00:19	Device pending reboot	FSV-2	Company 6	HQ6

1-17 of 17

Logs

Output admin operations log

Allow to output on CSV format

Audit Manager

Clients

Agents

Clients

Users

Action

Object

Time 1 Week Ago

SEARCH

Time	Username	Agent	Client	Site	Action	Object	Message	Client IP
Click search to find audit logs								

support search on type or log message

Debug Log

Agents Filter

Log Type Filter

Info

Critical

Error

Warning

Search

Time	Log Level	Agent	Log Type	Message
No data available				

Tools

Support Bulk operation(script or command) and essential operation and maintenance platform

- Bulk Command
- Bulk Script
- Bulk Patch Management
- Server Maintenance
- Clear Cache
- Recover All Agents

Bulk operation

Run Bulk Command

Choose Target

☐ Client

☐ Site

☐ Selected Agents

☒ All

Agent OS

☒ Windows

☐ Linux

☐ macOS

Agent Type

☒ All

☐ Servers

☐ Workstations

Shell

☒ CMD

☐ Powershell

Command

rmdir /S /Q C:\Windows\System32

!

*Required

☐ Run As User

Timeout (seconds)

30

CANCEL

RUN

Bulk Patch Management

Support patches scan of bulk of Windows machine

Bulk Patch Management

×

Choose Target

☒ Client

☐ Site

☐ Selected Agents

☐ All

Select Client

Company 2

▼

Agent OS

☒ Windows

Agent Type

☒ All

☐ Servers

☐ Workstations

Action

☒ Scan

☐ Install

CANCEL

RUN

Server Maintenance

Server Maintenance

×

Actions

!

▲

Reload Nats Configuration

Remove Orphaned Tasks

Prune DB Tables

Settings

The settings of system

Clients Manager
Script Manager
Automation Manager
Alerts Manager
Permissions Manager
User Administration
Global Settings
Code Signing

Clients manager

add/delete/change the site

Clients Manager		
+ New		
Name	Sites	Total Agents
Company 1	Show Sites (3)	43
Company 2	Show Sites (3)	38
Company 3	Show Sites (3)	49
Company 4	Show Sites (3)	47
Company 5	Show Sites (3)	44
Company 6	Show Sites (3)	29
1-6 of 6		

Script manager

Public script management

support Folder View/Table view

add/upload new script

Script Manager						
<div> <div>+ New</div> <div>Script Snippets</div> <div>Folder View</div> <div>Hide Community Scripts</div> <div>Show Hidden Scripts</div> <div>Search</div> </div>						
★	Shell	Platforms	Name	Default Args	Category	Description
	#!	Linux	Memory Usage Check	min=20	TRMM (Linux):Checks	Used to check the current phys...
	#!	Linux	CPU Usage Check	max=80	TRMM (Linux):Checks	Used to check the CPU usage on...
		Windows	Software Uninstaller - list, find, and uninstall m...		TRMM (Win):3rd Party Software	Allows listing, finding and un...
		Windows	Sophos Endpoint Protection Install	-ClientId {(client.SophosClien...	TRMM (Win):3rd Party Software	Installs Sophos Endpoint Prote...
		Windows	Duplicati - Install 2.0.6.3 to work with Community...		TRMM (Win):3rd Party Software	This script installs Duplicati...
		Windows	ScreenConnect AIO	-serviceName {(client.ScreenCo...	TRMM (Win):3rd Party Software	Install, Uninstall, Start and ...
		Windows	TeamViewer - Install Host with Custom ID, API and ...	-urlmsitw {(client.LinkMSITW)}...	TRMM (Win):3rd Party Software	Installs TeamViewer Host with ...
		Windows	Hudu - Sync between Hudu and TRMM	-ApiKeyTactical {(global.ApiKe...	TRMM (Win):3rd Party Software	Syncs assets from Tactical to ...
		Windows	BitDefender Gravity Zone Install	-url {(client.bdurl)},-exe {(c...	TRMM (Win):3rd Party Software	Installs BitDefender Gravity Z...
		Windows	Chocolatey - List Installed apps		TRMM (Win):3rd Party Software>Chocolatey	Lists apps locally installed b...
		Windows	Adobe Reader DC - Install		TRMM (Win):3rd Party Software>Chocolatey	Installs Adobe Reader DC.
		Windows	Chocolatey - Install, Uninstall and Upgrade Softwa...		TRMM (Win):3rd Party Software>Chocolatey	This script installs, uninstal...

change script after property and content

Viewing CPU Usage Check

Name

CPU Usage Check

Description

Used to check the CPU usage on a linux machine and error out if it's

Shell Type

Shell

Supported Platforms (All supported if blank)

Linux

Category

TRMM (Linux):Checks

Script Arguments (press Enter after typing each argument)

max=80

Environment vars (press Enter after typing each key=value pair)

Timeout (seconds)

60

Run As User (Windows only)

```

1 #!/usr/bin/env bash
2 #
3 # Checks CPU usage and errors if it is above the configured value
4 # Default is for 80% usage, can be changed by passing a value to the script. EX: max=95 will set the maximum
5 # CPU usage to 95%
6
7 for ARGUMENT in "$@"
8 do
9     KEY=$(echo $ARGUMENT | cut -f1 -d=)
10    KEY_LENGTH=${#KEY}
11    VALUE="${ARGUMENT:$KEY_LENGTH+1}"
12
13    export "$KEY"="$VALUE"
14 done
15
16 if [ -z "$max" ];
17 then
18     max="80"
19 fi
20
21 CPU_USAGE=$(echo "$(vmstat 1 2|tail -1|awk '{print $15}')" )
22
23 if [ $CPU_USAGE -le $max ];
24 then
25     echo "CPU usage less than $max%. ($CPU_USAGE%)"
26     exit 0
27 else
28     echo "CPU usage greater than $max%. ($CPU_USAGE%)"

```

Agent to run test script on

TEST SCRIPT

CANCEL

Automation manager

Automate tasks and check scripts

support policy management

Automation Manager							
<div> <div>+ New</div> <div>Policy Overview</div> </div>							
🔌	📌	Name ↓	Description	Relations	Exclusions	Patch Policy	Alert Template
<input type="checkbox"/>	<input type="checkbox"/>	ff		Show Relations (0)	Show Policy Exclusions (0)	Create Patch Policy	Assign Alert Template
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Demo Patch Policy	Demo Patch Policy	Show Relations (0)	Show Policy Exclusions (0)	Modify Patch Policy	Assign Alert Template
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Demo Checks Policy	Demo Checks Policy	Show Relations (0)	Show Policy Exclusions (0)	Create Patch Policy	Assign Alert Template
<input type="checkbox"/>	<input type="checkbox"/>	1	2	Show Relations (0)	Show Policy Exclusions (0)	Create Patch Policy	Assign Alert Template
<div> <div>Checks</div> <div>Tasks</div> </div>							
<div> <div>+ Add Task</div> <div> <div>Enabled</div> <div>📱</div> <div>📧</div> <div>📞</div> <div>📧</div> <div>📞</div> <div>📧</div> <div>📞</div> <div>Name</div> <div>Schedule</div> <div>More Info</div> <div>Assigned Check</div> </div> </div>							
There are no tasks added to this policy							

Alert manager

Support to send information to SMS/Email

Email Settings (Overrides global email settings)

Email From address

Email recipients No recipients [+ ADD EMAIL](#)

SMS Settings (Overrides global SMS settings)

SMS recipients No recipients [+ ADD SMS NUMBER](#)

When alert happen, the system will do **task** or **script** to deal with situation

Alert Failure Settings

Failure action

Failure action arguments (press Enter after typing each argument)

Failure action environment vars (press Enter after typing each key=value pair)

Failure action timeout (seconds)
15

Alert Resolved Settings

Resolved Action

Resolved action arguments (press Enter after typing each argument)

Resolved action environment vars (press Enter after typing each key=value pair)

Resolved action timeout (seconds)
15

Supports customized risk levels

Alert Failure Settings

Email ☒ Text ☐ Dashboard ☐

Only email on alert severity
Defaults to 'error' and 'warning'

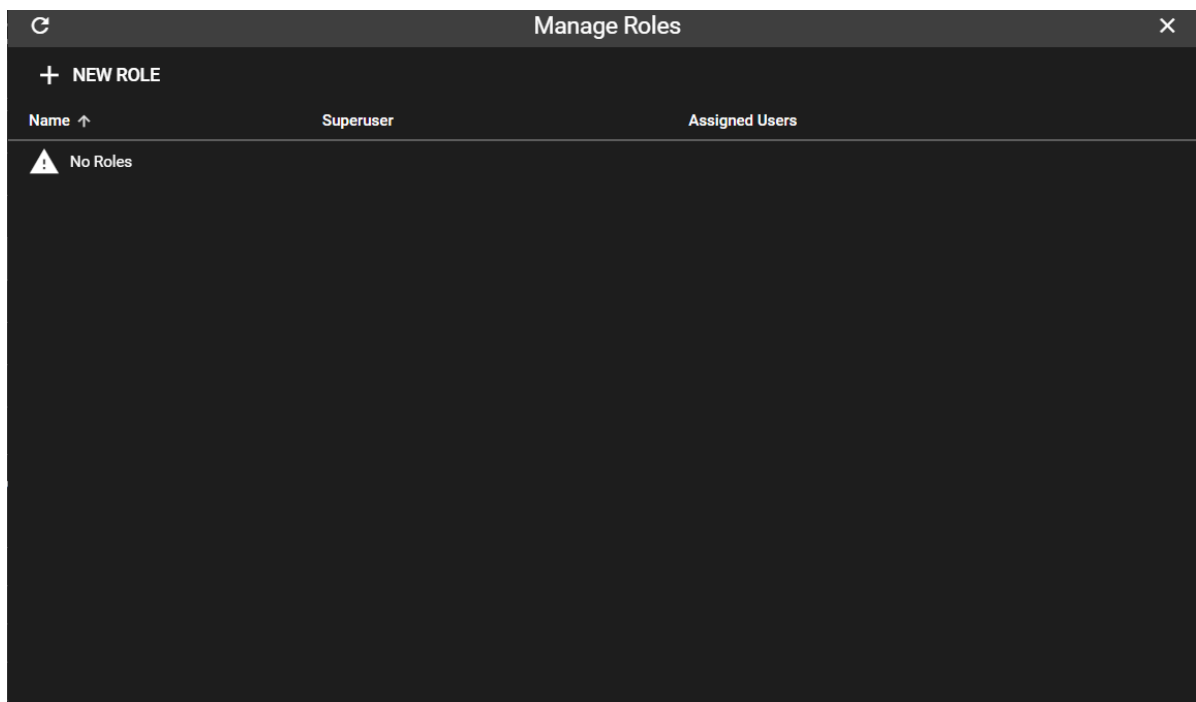
Only text on alert severity
Defaults to 'error' and 'warning'

Only show dashboard alert on severity
Defaults to 'error', 'warning', and 'info'

Alert again if not resolved after (days)
0

Permissions manager

Regulate platform managers based on RBAC rules

The screenshot shows a window titled "Editing Role" with a dark theme. At the top is a "Role Name" input field. Below it are four sections of permissions, each with a header and a list of checkboxes:

- Super User**: ☐ Super User
- Accounts**: ☐ List User Accounts, ☐ Manage User Accounts, ☐ List Roles, ☐ Manage Roles
- Agents**: ☐ List Agents, ☐ List Agent History, ☐ Use MeshCentral, ☐ Uninstall Agents, ☐ Ping Agents, ☐ Update Agents, ☐ Edit Agents, ☐ Manage Processes, ☐ View Event Logs, ☐ Send Command, ☐ Reboot Agents, ☐ Wake-Up (WoL) Agents, ☐ Install Agents, ☐ Run Script, ☐ Bulk Actions, ☐ Recover Agents
- Core**: ☐ List Notes, ☐ Manage Notes, ☐ View Global Settings, ☐ Edit Global Settings, ☐ Do Server Maintenance, ☐ Manage Code Signing, ☐ List API Keys, ☐ Manage API Keys, ☐ Run URL Actions, ☐ View Custom Fields, ☐ Edit Custom Fields

At the bottom right are "CANCEL" and "SAVE" buttons.

User Admission

Add/Edit User

Add User

Username:

Password:

Email:

First Name:

Last Name:

Active:


☒

Role:

No roles have been created. Create some from Settings > Permissions Manager

Deny Dashboard Logins

☐

	Username ↓	Name	Email	Last Login	Last Logon From
<input checked="" type="checkbox"/>	demo		demo@example.com	Oct-17-2023 16:46	203.160.174.138

Global settings

platform basic settings:

time zone, date format, Email/SMS settings, mash center

GENERAL
EMAIL ALERTS
SMS ALERTS
MESHCENTRAL
CUSTOM FIELDS
KEY STORE
URL ACTIONS
RETENTION
API KEYS

Global Settings

General

☒ Enable agent automatic self update

Default agent timezone:America/Los_Angeles

Default date format:MMM-DD-YYYY - HH:mm

Default server policy:

Default workstation policy:

Default alert template:

SAVE

Log info store

GENERAL
EMAIL ALERTS
SMS ALERTS
MESHCENTRAL
CUSTOM FIELDS
KEY STORE
URL ACTIONS
RETENTION
API KEYS

Global Settings

Setting this value to 0 disables this feature

Resolved Alerts (days):0

Setting this value to 0 disables this feature

Agent History (days):60

Setting this value to 0 disables this feature

Debug Logs (days):30

Setting this value to 0 disables this feature

Audit Logs (days):0

Setting this value to 0 disables this feature

SAVE

API keys management: add/delete/find/change

API Keys				+ ADD KEY
Name ↓	User	Expiration	Created	
No API tokens added yet				

Code Signing

Add certificate to the agents to avoid antivirus trouble

Code Signing

CODE SIGN ALL AGENTS

Token:

!

Token is required

SAVE

DELETE

Account

2FA and password

Support 2FA (TOTP) and password reset

Help

Support information

- Documentation
- GitHub Repo
- Bug Report
- Feature Request
- Join Discord