

Samsung Poseidon Management Tool

User Manual

1. Overview

The storage needs to be monitored to reduce the total cost of operation (TCO) and ease of monitoring and management. M-Tool gives the ability to configure available Poseidon boxes, aggregate all of the events and represent the total picture of operations. In the event of a failure, tool can alert the technical staff about the problem, allowing them to begin remediation processes before outages affect business processes, end-users, or customers.

Poseidon management exposes REST APIs with JWT authentication for secured communication with Poseidon Management UI or any third party UI applications.

2. Login

Login page allows the user to enter user id and password and login to the application. Once the user completes login, the user will be redirected to Home Page.

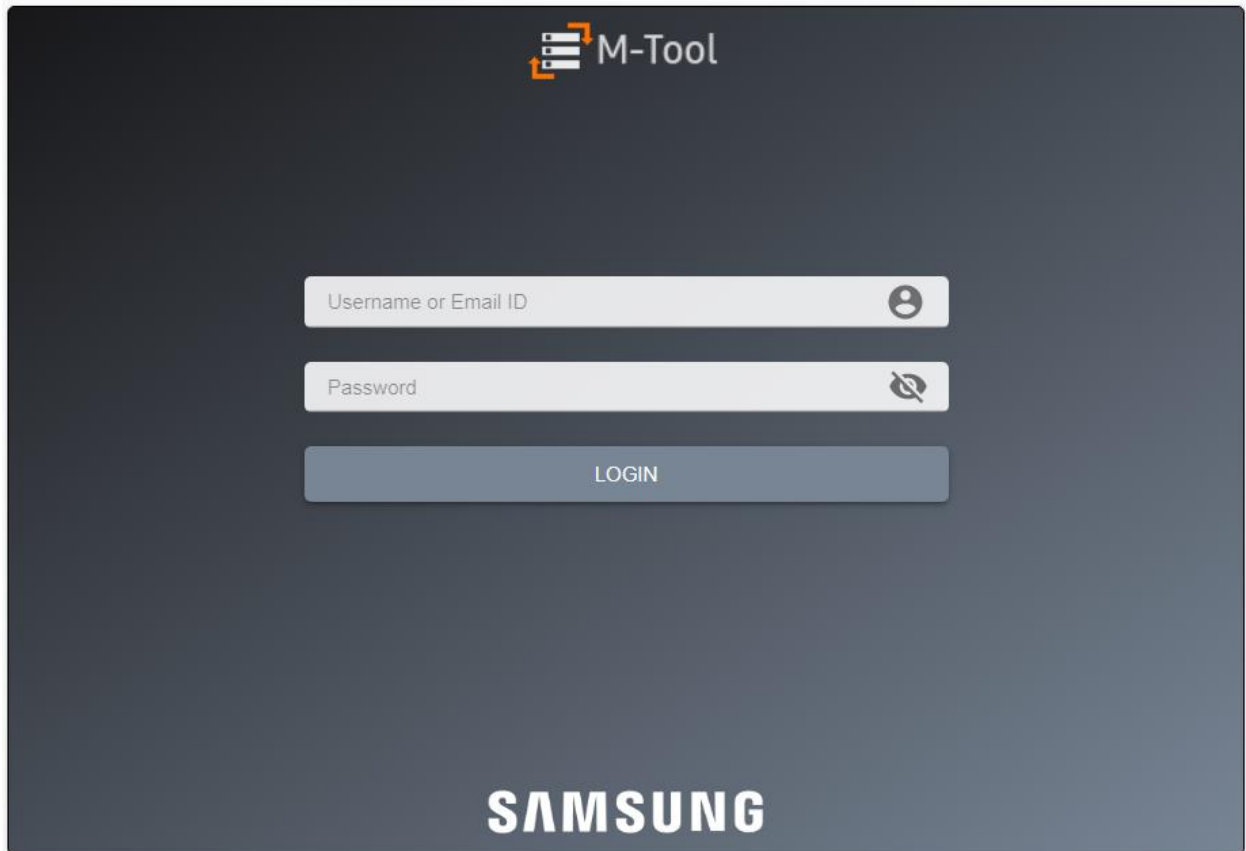


Fig 2.1 Login Page

Once the user logs out of the Poseidon Management Portal, the user will be redirected to the login screen again.

3. Dashboard

Dashboard will give the user an overview of the Poseidon box. It will have 4 sections showing performance overview, storage details, storage summary and storage alerts.

- Performance overview gives the basic performance details such as Latency, Bandwidth and Throughput of the Poseidon box.
- Storage details shows the Space utilization details.
- Volume summary provides the volume level information in the Poseidon box.
- Storage Alerts show some top alerts captured from the Poseidon box.

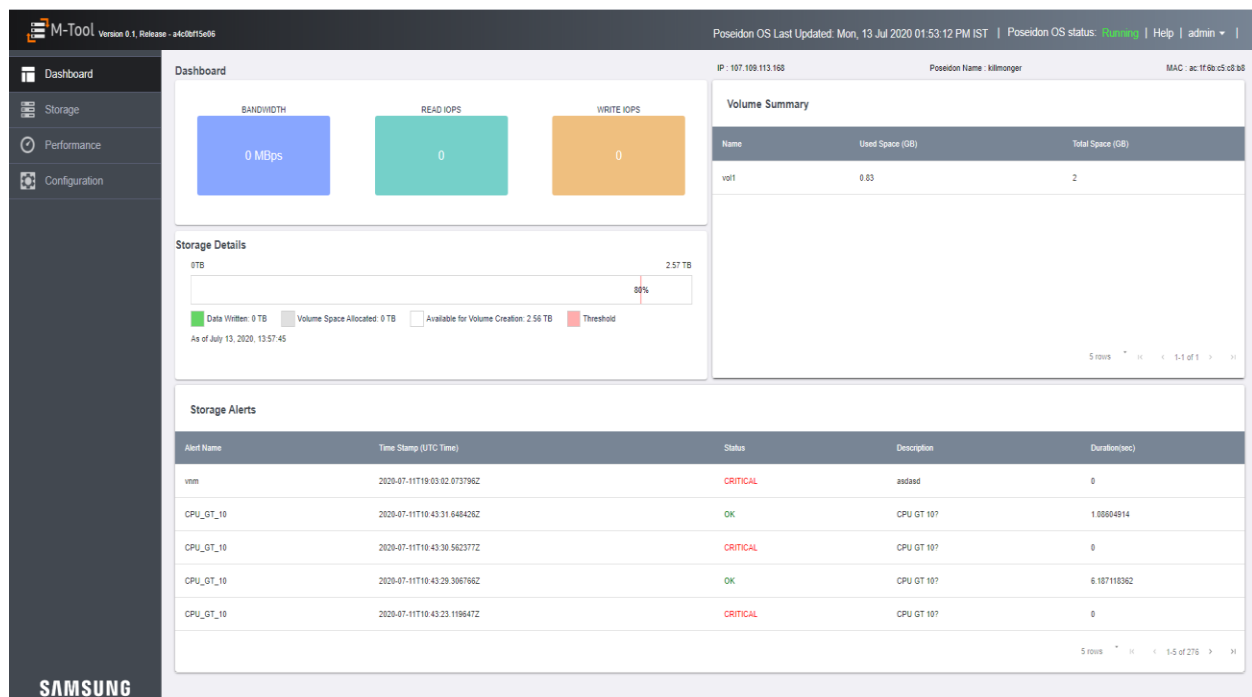


Fig 3.1 Dashboard Page

4. Storage

The Storage page allows user to create array and volumes and view already created volumes.

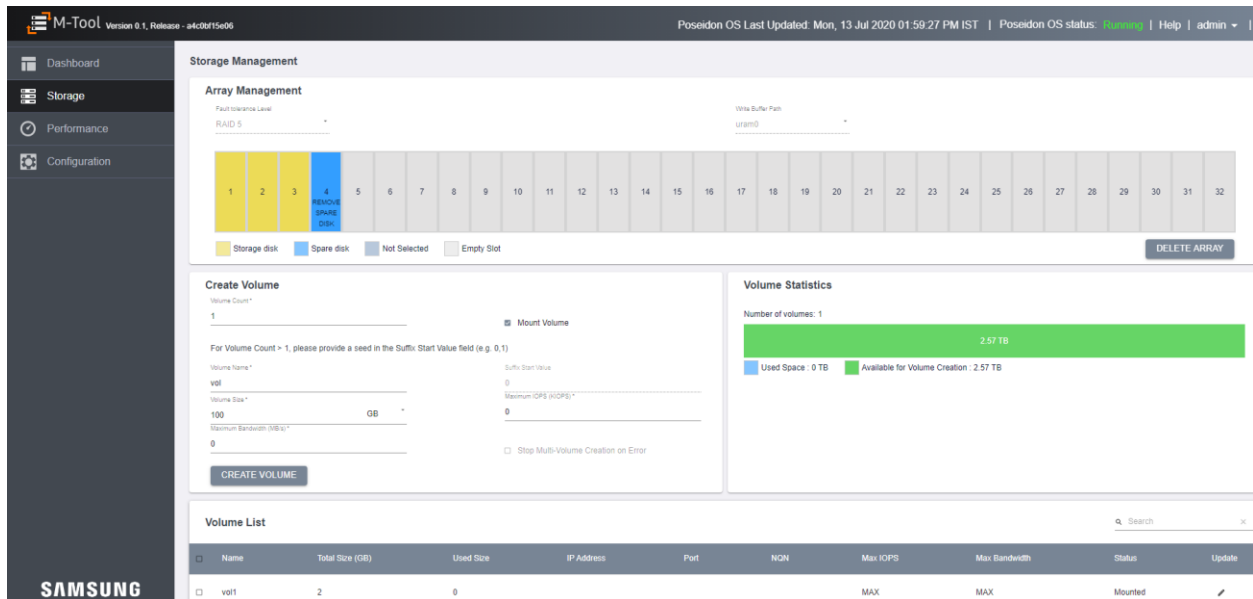


Fig 4.1 Storage Page

User can create an array based on the types of disks selected in the slots .i.e. Storage, Spare and Write Buffer Disks.

User can create a single or multiple volumes at a time by specifying the volume name, volume size, volume count and description. The volume information including volume name, volume size, used size, IP, port, NQN, description and status is then listed in the table. User can delete the volume(s) by selecting the volume name(s) from the table followed by a delete button click.

5. Performance

Performance page shows the detailed charts regarding performance of the Poseidon box. It will have charts which will show IOPS, throughput, latency, CPU utilization of the Poseidon box.



Fig 5.1 Performance Page

6. Configuration

Configuration page allows the user to configure the SMTP server, setting the Poseidon OS polling frequency and Log collection. In this page the admin can configure the SMTP server details (IP : Port). The admin will have to configure email id list along with the type of alerts. An email will be sent to all the configured email ids in case of emergency alerts selected in the dropdown. Log Collection helps the user to collect Poseidon logs especially for the purpose of debugging. On clicking the Download Log Button, user can download the M-Tool logs.

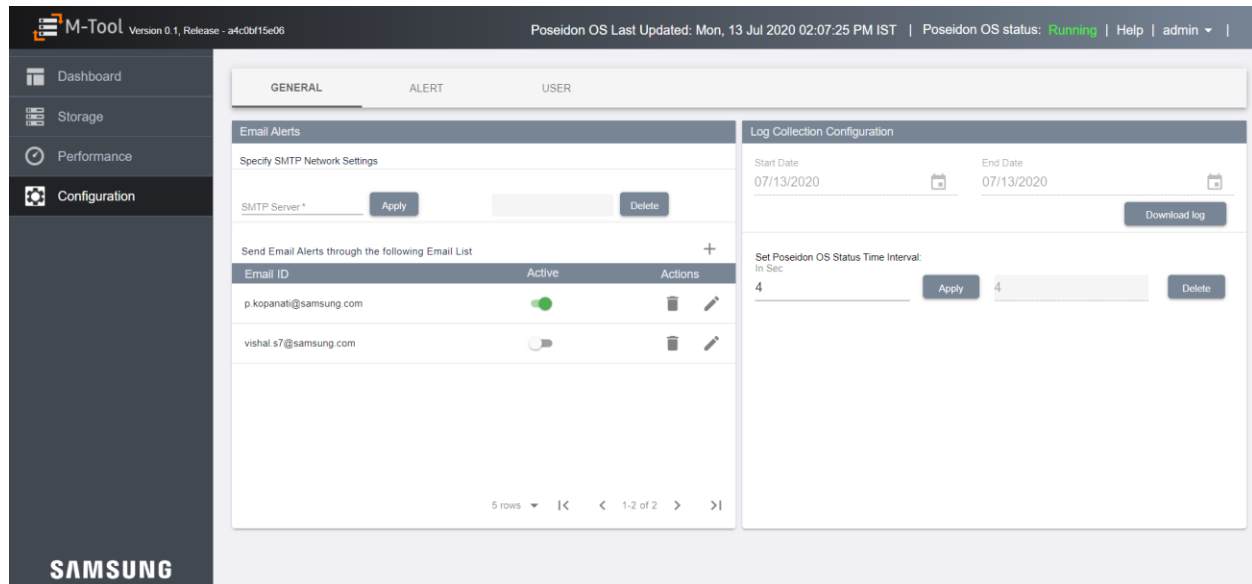


Fig 6.1 General Configuration Page

7. Alert Management

The alert management page allows admins to add and configure new type of alerts by specifying alert name, alert type, alert condition and alert range/value. The added alerts can then be modified in the alert management table (top portion). An email will be triggered to the configured email ids in Configuration Page once the alert threshold is crossed.

M-Tool Version 0.1, Release - a4c0bf15e06 Poseidon OS Last Updated: Mon, 13 Jul 2020 02:10:33 PM IST | Poseidon OS status: Running | Help | admin |

Dashboard
Storage
Performance
Configuration

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GENERAL ALERT USER

Alert Name	Alert Type	Alert Condition	Alert Value	Active/Inactive	Alert Description	Actions
cpuusage	cpu-total	Greater Than	56	●	cpu alert	✎ ✖

5 rows |< < 1-1 of 1 > >|

Alert Types

- cpu
 - cpu
 - ☒ cpu-total
 - disk

Alert Fields

- ☐ usage_user

Alert Name * -Send Alert Where Alert Field * Is Greater Than * Value *

Description Add

Fig 7.1 Alert Management Page

8. User Management

The user management page allows admins to add a new user and modify Username, Active Status, Email Id, Mobile Number fields of an existing user.

M-Tool Version 0.1, Release - a4c0bf15c06 Poseidon OS Last Updated: Mon, 13 Jul 2020 02:12:10 PM IST | Poseidon OS status: Running | Help | admin ▾ |

Dashboard Storage Performance Configuration

GENERAL ALERT **USER**

User List

Role	User Name	API Enable	Phone	Email	Privilege	Actions
ADMIN	admin	●	xxxxxxxxxx	admin@corp.com	Create, Read, Edit, Delete	

5 rows ▾ |< < 1-1 of 1 > >|

Add New User

User Name * ADMIN ▾

Password * Confirm Password *

Phone Number * +82 Email ID *

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Fig 8.1 User Management Page

User Addition requires six fields i.e. Username, Role, Password, Confirm password, Mobile Number and Email ID. User Modification allows the admins to modify Username, Active Status, Email Id, Mobile Number fields of an existing user. Once the user's active status has been disabled by the admin, then the user won't be able to login till the status is changed back to active state by the admin. User Deletion allows the admins to delete the entire user(s) details. Once a user record is deleted by the admin, the user won't be able to login to the Samsung Poseidon management portal. Admins can use Add New User functionality to re-add the user.