

For every Enterprise, SME, Public Sector and SMB Company that has enjoyed a significant cost saving from 'going' virtual - there is still an equal amount of companies who are not reaping these rewards. Are you really confident of your control of the infrastructure? Are you confident that you have the tools, knowledge and analytics in place to make your infrastructure work now and most importantly in the future?

MARS by Cumulus Systems is a lightweight, agent-less software tool that helps optimise the Configuration and Performance of an IT infrastructure. It captures real-time data from Servers, Virtual Machines, Storage Systems, Network Modules and applications in a holistic manner. Something individual, vendor specific tools cannot do.

Business Benefits

- Inventory discovery and profiling will allow for drilled down analysis of the existing infrastructure, current licensing plans, hardware and VM utilisation as well as an in-depth storage discovery and planning.
- Make existing assets 'sweat' for longer periods and optimise the performance of the infrastructure as a whole. Reduce cost overheads, wasted time on internal analysis and ad-hoc reporting and ensure best practices are being adhered to.
- Patented methodology of working with huge amounts of data ensures that there is little or no impact to performance or storage footprint - making MARS a truly scalable offering.
- Easily find answers to questions such as:
 - Is my infrastructure configured for optimal performance?
 - Why is there sub-optimal performance during critical time periods?
 - Where are the bottlenecks? On which servers or VM? Is it on the I/O path or on the Storage?

Virtualisation Environments

- Citrix Xen Server
- Microsoft Hyper-V
- VMware

Physical Hosts

- Windows
- Linux

Storage Systems

- EMC
- Fujitsu
- Hitachi
- HDS
- IBM
- NetApp
- Fusion IO
- Violin

Network

- Cisco + SNMP Support.

Applications

- MS Exchange
- SQL Server
- Add. coverage by Jul '13

MARS' Patent-Pending technology

MARS uses patent-pending technology to store and analyse large amounts of time-series data. Its scalable architecture enables it to easily handle large enterprise-scale virtualisation deployments. By collecting and retaining data at a high granularity for a long period of time, it can create accurate assessments of historical performance trends and baselines for comparison with prior months/quarters.

Deploying MARS

- On the Cloud
- On premises

Requirements

- VM Container (ESX or VMPlayer)
- 4 GB Memory
- SFTP access to Cloud Server (opt)

Top 5 key points

1. Most scalable performance analysis solution

- Unique patent-pending NOSQL architecture
- No limit to VM's on internal 'nodes'
- Single Pane of Glass for both Physical and Virtual infrastructures
- Tightly integrated support for NetApp, VMware, EMC, Hitachi and Fusion-I/O

2. Flexible & Easy Deployment

- In our Cloud or behind your firewall.
- Agent-less architecture, secure and non-intrusive.
- Lightweight & easy to configure - quick results.
- 15 minutes to install & configure; 40 minutes to results

3. Out of the box Assessment Reports

- Configurable Industry accepted best practice checks
- Actionable reports in an easy to read format
- Alerts that reduce/eliminate false positives

4. Proven solution

- Over 190 installations worldwide
- Used by FTSE, NYSE, Data Centers, Education and public sector alike.

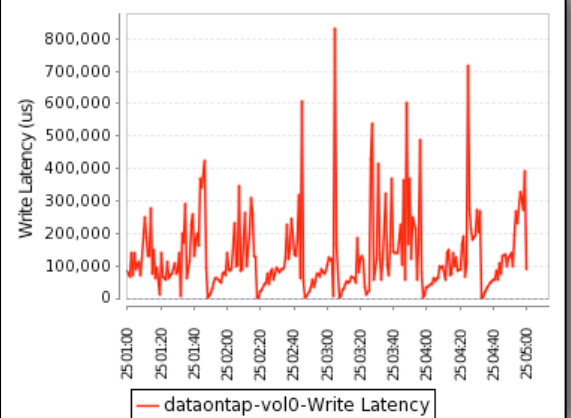
5. Delivered as a service

- Monthly review of the assessments by Cumulus is included
- Weekly reports sent as standard
- Before and After Views of Environment Changes analysis

Common Use Cases

- Inventory Discovery
- Performance diagnostics
- Migration planning & sizing
- Optimisation of Assets
- Validation of best practices
- Backup Window Analysis
- Profiling and re-modeling.
- Chargeback solutions
- Day-to-day monitoring & alerting

dataontap-vol0 : Volume Write Latency vs VM Usage



HITACHI

Hitachi Data Systems

"The MARS tool from Cumulus Systems, branded as RIAT by HDS, has enabled HDS to move quickly into the server virtualisation reporting area. With Cumulus Systems we create outstanding performance and configuration assessment reports in the areas of server virtualization and 3rd-party storage such as converged reports which provide server-to-storage assessments. We now use MARS in pre-sales, post-sales, and professional services scenarios. MARS has become a valuable tool in the HDS toolbox and Cumulus Systems has been an outstanding partner to HDS, providing development, support, and strategy assistance."

Steve Hood - Director, Software Tools Development, Hitachi Data Systems