

**STORAGE MONITORING AS A SERVICE
STOR2RRD AS A SERVICE MODEL**

STOR  RRD

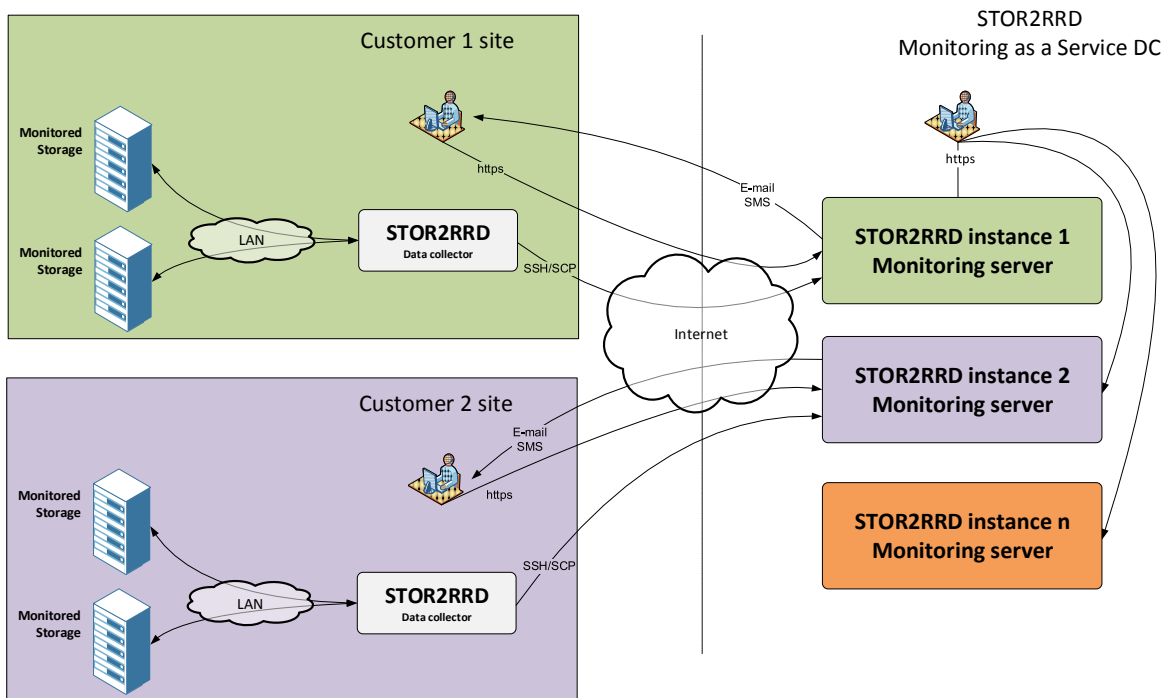
STOR2RRD

STOR2RRD is free performance monitoring tool for IBM Power Systems and VMware distributed as OpenSource under GPL v3. You can order support for this tool and run this tool at your premises or optionally we can securely transfer you performance data from your infrastructure to our monitoring instance and you can just watch performance data in your browser or get all information in to your inbox.

How it works:

You just have to deploy STOR2RRD data collector module (VMware VMDK image, Docker container or by classic program installation). Performance data will be collected in your datacenter from your devices and securely transferred to our STOR2RRD monitoring instance. When you would like to check status of your devices instantly, you just log-on to web-interface of monitoring tool and will see status of your devices. You can set-up thresholds and events for which you would like to get alerts. Then you can set notification channel. Our team of skilled system administrators and SMEs will check every working day status of your physical and logical devices and in case of some unusual behaviour you'll be informed. And every month/week you can get reports of resources utilizations and consumptions with optional recommendations for resources reassignment.

Data of each customer is handled in independent STOR2RRD instance to keep data safe and separated.



In case, you already using STOR2RRD we can migrate your data to “as a service” model to keep continuity of your data. Same approach could be used, when you decide to move from “as a service” model to on premise model. We can export all your data and assist with import to your environment. Based on this, you can start with “as a service” model and once you decide to move all your data and service to your product instance, you’ll be free to do ‘it.

Following metrics and channels are possible:

Performance alerting:

Device	Part of device	Metric	Parameters for metrics	Communication Channel
Storage	Volume	IO (read and write)	Limit value	E-mail SMS
		IO Read	Peak duration	
		IO Write	Count of repeats	
		Data (read and write)	Exclude hours	
		Data Read	Communication channel	
		Data Write		
	Host	IO (read and write)	Limit value	E-mail SMS
		IO Read	Peak duration	
		IO Write	Count of repeats	
		Data (read and write)	Exclude hours	
		Data Read	Communication channel	
		Data Write		
	Port	IO (read and write)	Limit value	E-mail SMS
		IO Read	Peak duration	
		IO Write	Count of repeats	
		Data (read and write)	Exclude hours	
		Data Read	Communication channel	
		Data Write		

Event monitoring and alerting:

Device	Category	Priority	Communication channel
Storage / SAN switch	Error	Critical	E-mail, SMS
		Warning???	E-mail
	Failure	Critical	E-mail, SMS
		Warning???	E-mail

Capacity monitoring and alerting:

Device	Metric	Communication channel
Storage	Overall capacity	E-mail
	Tier capacity	E-mail
	pool capacity	E-mail

STOR2RRD as a Service covers following

- Remote access to frontend tool, to see performance data of your infrastructure whenever you want
- Get automatic performance and utilizations reports (daily/weekly/monthly)
- Regular daily healthchecks by team of skilled system administrators
- Guaranteed updates of application STOR2RRD
- Automatic alerting for reached thresholds in resource consumption
- resolving operation issues like
 - data is not being downloaded from the monitored devices (storage/SAN switch)
 - graphs are not being generated/refreshed
- support with your part of installation, upgrade, migrations etc
- any kind of consultations or support regarding covered areas
- next business day response time for critical issues
- data retention time based on service level
- Possibility to ask for reports or outputs customizations
- Unlimited number of LUNs or SAN ports in one Custom Group.

Storage tier definition ¹

Enterprise tier

- IBM DS8000
- IBM DS6000
- IBM XIV
- IBM SVC
- IBM FlashSystem V9000

Midrange tier

- IBM Storwize V7000
- IBM Storwize V5000
- IBM DS4000, DS5000
- IBM DCS 3700
- Hitachi HUS 130
- NetApp E-Series

Entry level tier

- IBM Storwize V3700
- IBM DS3000
- Hitachi HUS 110

¹ List of actual storage tier is available on <http://stor2rrd.com/support.htm?2>

Pricing

- Price is per one monitored device such as storage, SAN switch etc. per month.

STOR2RRD as a Service pricing:

Service level	Monthly charge	Storage tier	# of storages	# of SAN ports	Interfaces			Data retention	Reports	Human check	Monitoring SLA	Export of data in case of exit
					Web	Email	SMS/m					
Free	0 USD	Entry	1	up to 24	Yes	Yes	No	1m	No	No	No	No
Basic	500 USD	Entry/Midrange	4	up to 64	Yes	Yes	10	3m	Monthly	Yes	3 Working days	Yes
additional storage	300 USD		4	5								
additional SAN switches	100 USD			48			5					
Standard	800 USD	Entry/Midrange	8	up to 128	Yes	Yes	25	7m	Monthly	Yes	2 Working days	Yes
additional storage	500 USD		8	10								
additional SAN switches	200 USD			64			10					
Premium	1 000 USD	No restriction	8	up to 256	Yes	Yes	50	13m	Weekly	Yes	1 Working day	Yes
additional storage	800 USD		8	20								
additional SAN switches	200 USD			128			20					