

Automated Analytics

Automatically integrate and analyze data from existing, disparate sources to understand the health, risk, and efficiency of your entire hybrid IT enterprise in one place.

Integrate Data from Anywhere

No need to rip and replace data collectors. Integrate and use the data you already have, regardless of the source or performance tool used to collect it. The data can originate from on-premises monitoring solutions as well as monitoring from public cloud services—no manual data federation needed.

Automate Complex Analytical Tasks

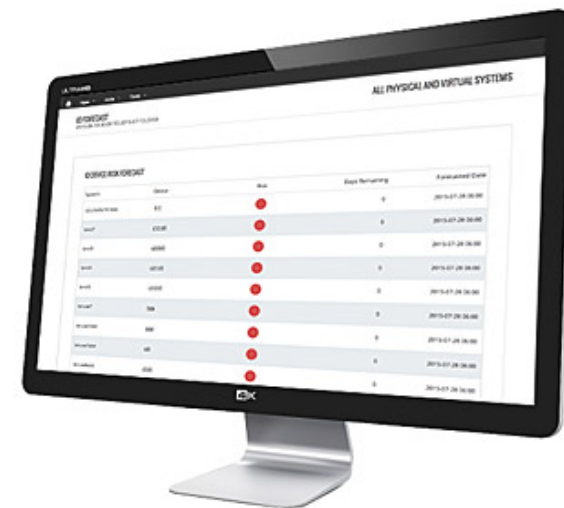
Automate the analysis and reports you need—average, sum, min/max, standard deviation, order, count, median, Top N, percentile, and more—to recoup hundreds of staff hours. Analyze hundreds to thousands of infrastructure components and focus on what's important.

Schedule, Publish, and Distribute

Schedule reports to run on their own to keep your teams updated with important information. Share the output analysis in a dashboard, through emails, or in your existing content repository—whatever way works best for you.

See a Comprehensive View of Your Hybrid IT Environment


Get an overview of all your performance or capacity information in one place, regardless of technical silos or organizational boundaries. Our unique tool allows seamless integration of multiple sources without requiring you to duplicate data into yet another data store.



Management Dashboard

Build management dashboards like this one to show potential costs savings that could be made by reclaiming unused physical, virtual, and cloud resources.

Capacity Management Dashboard



- Dashboards
 - Management Dashboard
 - Data Center Dashboard
 - Inventory Dashboard
- Cloud
 - AWS Reports
 - Amazon EC2 Migration Report
- Network
 - Intermapper Reports
- VMWare
 - VMWare Guest Reports
 - VMWare Host Reports
 - VMWare Datastore Reports
- Physical Systems
 - Health Reports
 - Risk Reports
 - Optimization Reports
 - Filesystem Reports
- Services
 - Atypical CPU Service Report
 - Finance Service Reports

Management Dashboard

Reclamation and Optimization

vCPU Reclamation

The figure below shows how many VMWare guest virtual CPUs could be reclaimed and returned to the pool for future use.

vCPU Savings

407

VMWare Host CPU Cost Savings

The figure below shows how much cost saving could be made by using unused CPUs instead of purchasing new hardware. The cost is based on an industry standard cost per CPU per year of \$1000.

Host CPU Costs

\$80000

AWS Credit Balance

The figure below shows the total number of credits available to burst beyond CPU base allocation for all AWS instances.

AWS Credits

172.65

Unused and Under-Utilized Physical Systems

The figures below shows the number of physical systems that are unused (under 10% utilization) and under utilized (10-30%).

Unused	Under-Utilized
12	6

Atypical CPU Usage

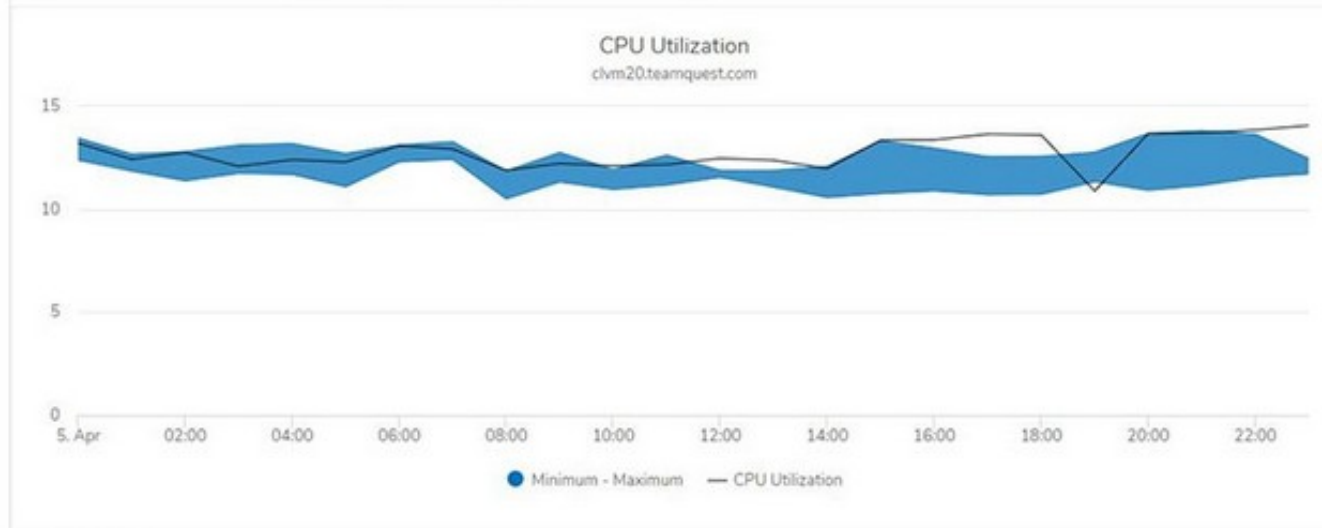
To effectively manage performance, you need to understand what is normal behavior and, more importantly, what is abnormal behavior. Crawl all of your data and use embedded analytics to highlight abnormal behaviors. In this report, you can see where CPU usage has deviated from normal by 10% or more.

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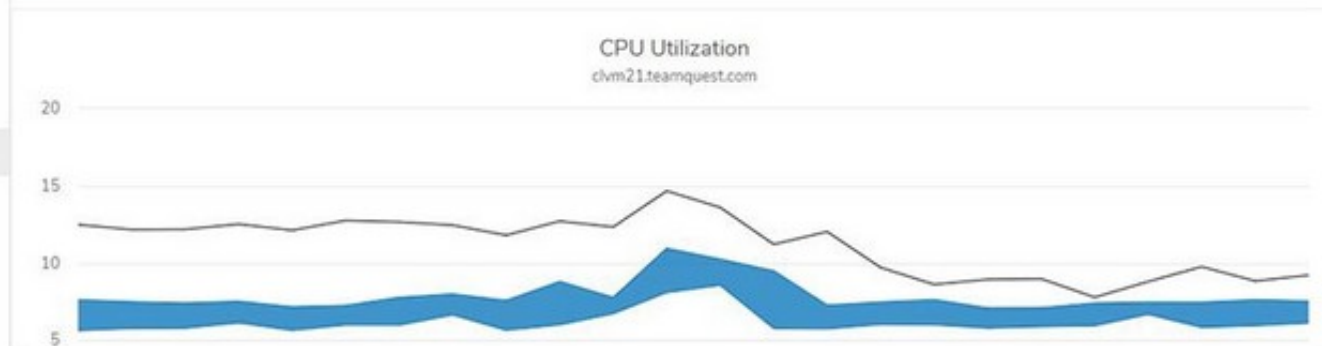
Atypical CPU Usage Chart for Yesterday

The following systems in the **Clear Lake** service were found to have deviated more than 10% from the minimum or maximum values measured during the previous month (Monday - Friday only). This is an indication of abnormal CPU usage, when compared to the previous month and should be investigated.

Report reference interval: Last week (Sun Mar 25 00:00:00 CET 2018 --> Sat Mar 31 23:59:59 CEST 2018)



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Filesystem Utilization

Automated analysis is crucial for large IT enterprises to identify problems quickly. In this example, all of the physical and virtual filesystems are analyzed to show filesystem size, used space, percent utilized, and a RAG-based percent free column. The report also indicates the change from the previous analysis period, making it easy to identify problem filesystems.

Capacity Management Dashboard
helpsystems

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VMWare

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Physical Systems

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- Filesystem Reports

Services

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Filesystem Utilization

Over Analysis Period 2018-03-08 to 2018-03-14 | Physical Systems

Server Name	OS	File System Name	Filesystem Size (GB)	Used Space (GB)	Current Utilization (%)	Free (%)	Change
clhpux3ia64	HPUX	/dev/deviceFileSystem	0.0	0.0	100.0	0.0	⇒
clvm19.teamquest.com	VMware	CS2-DEV-GEN02	2047.8	1960.7	95.8	4.2	↓
clvm20.teamquest.com	VMware	CS2-DEV-GEN02	2047.8	1960.7	95.8	4.2	↓
clvm21.teamquest.com	VMware	CS2-DEV-GEN02	2047.8	1960.7	95.8	4.2	↓
clvm19.teamquest.com	VMware	CS2-DEV-GEN01	2047.8	1872.1	91.4	8.6	↓
clvm20.teamquest.com	VMware	CS2-DEV-GEN01	2047.8	1872.1	91.4	8.6	↓
clvm21.teamquest.com	VMware	CS2-DEV-GEN01	2047.8	1872.1	91.4	8.6	↓
clvm13.teamquest.com	VMware	clvm8-13_emc41	39.8	34.8	87.5	12.5	⇒
clsuse8x64	LINUX	/clsuse8x64_1	24.3	19.1	78.3	21.7	↑
clvm13.teamquest.com	VMware	clvm13_1	149.8	114.8	76.7	23.3	⇒
tqclvm5.teamquest.com	VMware	SFA3-PROD-TEMP	8191.8	6178.9	75.4	24.6	↓
tqclvm6.teamquest.com	VMware	SFA3-PROD-TEMP	8191.8	6178.9	75.4	24.6	↓

Physical System Optimization

Are your servers being used optimally? What is being used and what isn't? Bucket your systems by CPU usage, Memory, and I/O throughput and visualize the data in overview charts or a detailed table of individual systems.

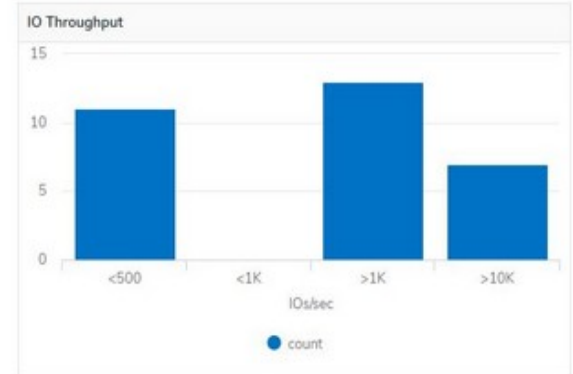
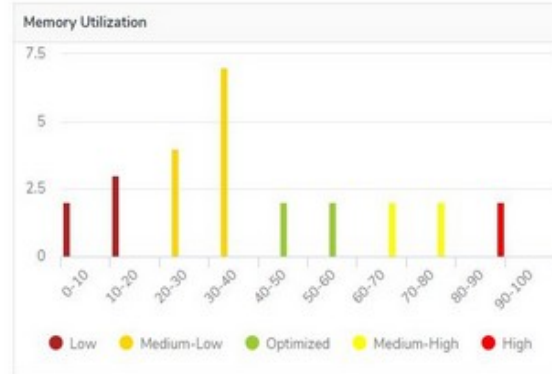
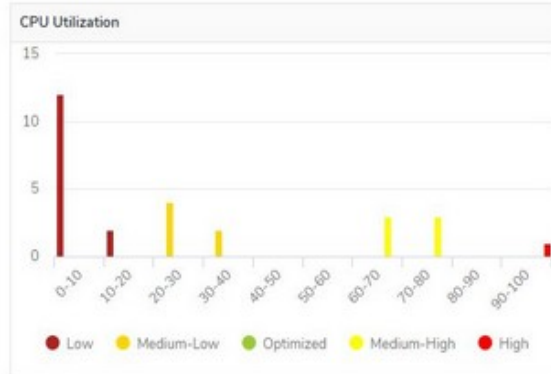
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Physical System Optimization

2018-03-04 to 2018-03-10 Physical Systems



System	CPU Utilization	Memory Utilization	IO Throughput
ENGCLWHV7	0.2	10.1	3.0
CLW11	0.2	29.5	2.6
engclvm12.teamquest.com	0.4	2.1	4018.1
engclvm6.teamquest.com	0.4	2.1	2258.8
clsol8	0.8	34.3	6.3
clsol7	0.9	88.8	11.7
engclvm5.teamquest.com	2.4	12.3	3374.2
clsuse8x64	4.3	25.1	3.3
engclvm22.teamquest.com	4.4	25.8	178.1