

ExceptionRep - Server State Reports

Smart Plug-In For TeamQuest® Software made by CREATIVE Associates

Reporting module for generating server capacity overviews

This complementary module on top of TeamQuest IT Service Reporter allows you to get quickly and in an automated way capacity overviews of your server infrastructure. By means of a graphical interface you can configure servers, groups, relative performance factors and report generation periods. The summary and detailed reports are made available within the IT Service Reporter interface.

Server State Overview

A summary type of report showing the used versus free actual and relative CPU capacity state of your server infrastructure. And this globally, by platform or custom server groups based on for example application type, service relationship, geography or others. These reports are automatically generated on a monthly basis and made available in the TeamQuest IT Service Reporter module for consultation.

The summary type of report allows you to look at the group level information and explode the tree of interest for a server detail.

The overall server status is calculated on the highest number of occurrences of server load in the ranges "0%-25%, 25%-50%, 50%-75% and 75%-100%".

These ranges are customizable and related to the "under, low, normal and high" load states. The number of hits/range is also indicated.

Group/System	Status	Highest status	Min. RPF	Free RPF	Used RPF	%Used CPU	Platform	Daily CPU delta	%C	Under (0 to 10)	Low (10 to 20)	Normal (20 to 40)	High (40 to 60)
By platform	Under	Normal	500,000	458,105	44,895	N/A	Multi	N/A	98.96%	1,292 hits	630 hits	357 hits	257 hits
Cluster 137	Under	Normal	200,000	187,352	32,648	N/A	Multi	N/A	93.67%	270 hits	102 hits	252 hits	252 hits
Cluster 137	Under	Normal	100,000	83,779	16,221	16.22%	Solaris	-2.24%	30.26%	270 hits	101 hits	318 hits	318 hits
Cluster 137	Under	Normal	100,000	83,873	16,127	16.03%	Solaris	-0.25%	30.94%	0 hits	1 hit	249 hits	249 hits
Cluster 137	Under	Normal	100,000	97,701	2,299	N/A	HP-UX	N/A	49.27%	355 hits	0 hits	0 hits	0 hits
Cluster 137	Under	Normal	100,000	97,701	2,299	2.30%	HP-UX	-0.12%	49.27%	355 hits	0 hits	0 hits	0 hits
Cluster 137	Under	Normal	100,000	96,826	3,174	N/A	Linux	N/A	92.22%	665 hits	0 hits	0 hits	0 hits
Cluster 137	Under	Normal	100,000	96,826	3,174	3.17%	Linux	+0.01%	92.22%	665 hits	0 hits	0 hits	0 hits
Cluster 137	Under	Normal	100,000	92,826	7,174	N/A	MDNWindows	N/A	92.31%	2 hits	536 hits	105 hits	105 hits
Cluster 137	Under	Normal	100,000	92,826	7,174	7.17%	MDNWindows	-0.02%	92.31%	2 hits	536 hits	105 hits	105 hits
Cluster 137	Under	Normal	200,000	187,352	32,648	N/A	Multi	N/A	93.67%	270 hits	102 hits	252 hits	252 hits
Cluster 137	Under	Normal	100,000	83,779	16,221	16.22%	Solaris	-2.24%	30.26%	270 hits	101 hits	318 hits	318 hits
Cluster 137	Under	Normal	100,000	83,873	16,127	16.03%	Solaris	-0.25%	30.94%	0 hits	1 hit	249 hits	249 hits
Cluster 137	Under	Normal	200,000	189,652	10,348	N/A	Multi	N/A	92.27%	667 hits	536 hits	105 hits	105 hits
Cluster 137	Under	Normal	100,000	96,826	3,174	3.17%	Linux	+0.01%	92.22%	665 hits	0 hits	0 hits	0 hits
Cluster 137	Under	Normal	100,000	92,826	7,174	7.17%	MDNWindows	-0.02%	92.31%	2 hits	536 hits	105 hits	105 hits

A Relative Performance Factor can be applied in order to compare different platforms, single or grouped servers. This RPF is also customizable so that the user can define a relevant type and the corresponding value as given by the hardware vendors.

For the month a 30 days linear trend is calculated so that apart from the current server state you can evaluate if there is a growth or decrease tendency. The value of this tendency per day is shown in a dedicated column (Daily CPU Delta).

Detailed Server State

For each server it is possible to generate a detailed report that shows the monthly CPU load behaviour. Depending on the configuration it will generate this report for the servers that are in one or more load ranges.

It contains the right information to quickly understand the CPU resource behaviour during the last month, if the system is used by the appropriate application and in case of abnormal or high load, when this situation occurs.

At a glance you know the server configuration, CPU By Workload, RPF load ranges distributions, RPF global and min/average/max values. Also a detailed view by day of the occurrences in each load range is part of the report.

(see backside of this page for an example report)

Who uses it ?

Performance Analysts
Capacity Planners

For What ?

Optimize Data Centre resources

Get an instant and clear picture on the CPU capacity state of your server infrastructure.

Helps deciding what to consolidate

Via the summary report types on platform and custom groups it is possible to detect what servers are candidate to be consolidated due to an overall underutilised state.

ExRep uses a relative performance factor in order to compare servers and platforms.

Four server states

By means of four custom CPU activity ranges the load can be categorized into the "high, low, normal & under" activity states.

Standard load ranges are "0-25, 25-50, 50-75 & 75-100" on monthly level with a detail by day.

Detailed report by server

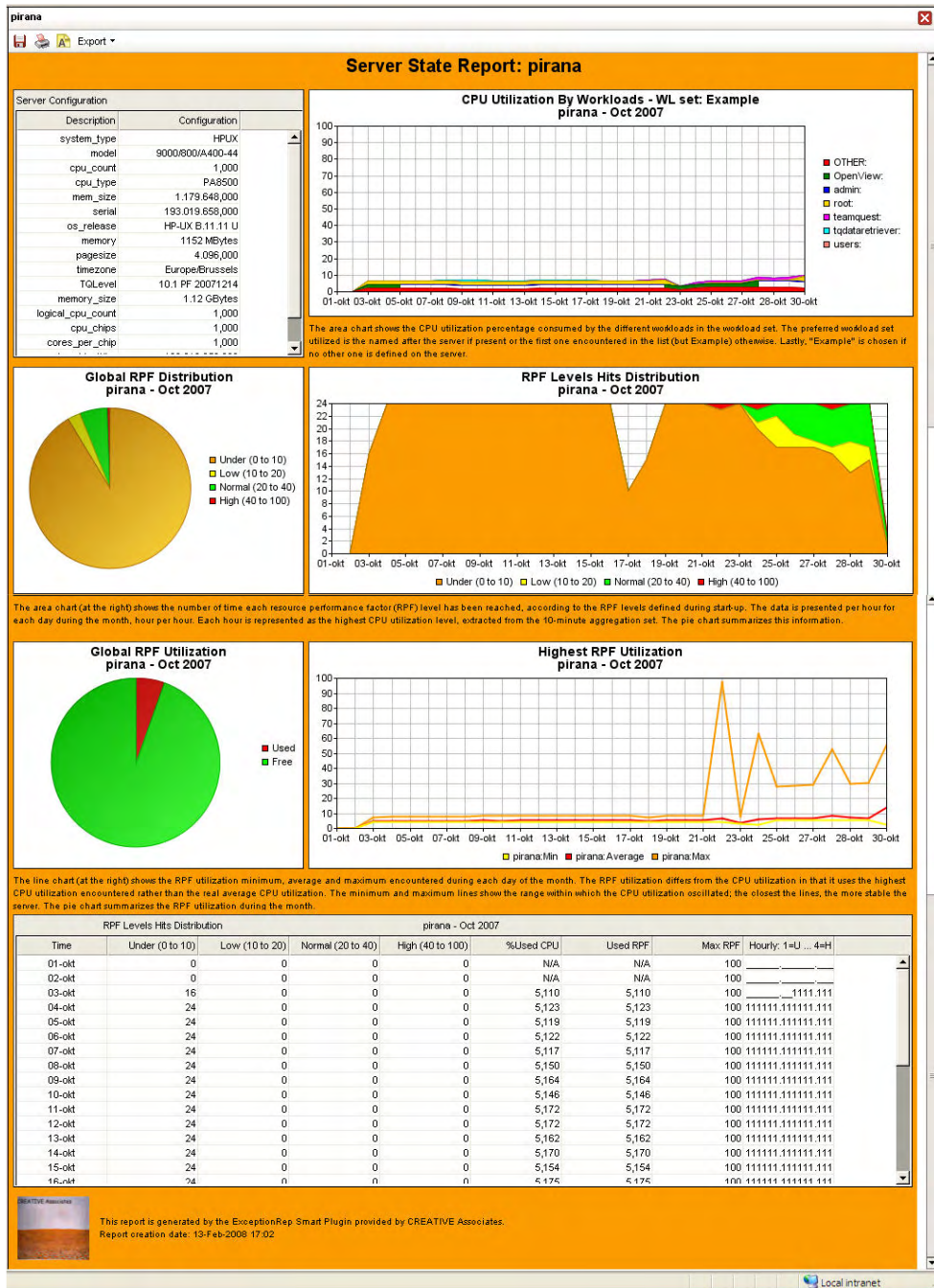
When selected you can obtain a detailed report per server for the load categories of interest.

As such you can get immediate detailed reports of the servers which are overloaded and those that are doing nothing for example.

Relative Performance Factor

As a relative performance factor is applied you are able to compare different platforms and server types with each other.

The RPF type like "TPMC, SpecInt or others" is custom and entered via a configuration screen.



ExRep user interface client

- * Internet Explorer 5.x or higher
- * Mozilla Firefox 5.x or higher

TeamQuest client platforms supported

- * HP-UX on PA-RISC & Itanium.
- * SUN Solaris on Intel, AMD and SPARC.
- * Microsoft Windows on Intel and AMD.
- * RedHat, SuSe Enterprise Linux on Intel and AMD.
- * IBM AIX.

Server platforms supported

- * HP-UX on PA-RISC.
- * SUN Solaris on SPARC.
- * Microsoft Windows on Intel and AMD.
- * RedHat Enterprise Linux on Intel and AMD systems.
- * IBM AIX.

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