

PAWZ Server V15.0

New Features

Revision/Update:
Release Document.

May 2020

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Release Overview

This document describes new features in version V15.0 of the PAWZ Server.

This document describes new features in version V15.0 of the PAWZ Server. See the **RESTful API Guide, PAWZ Server V15.0** for more information on the RESTful API.

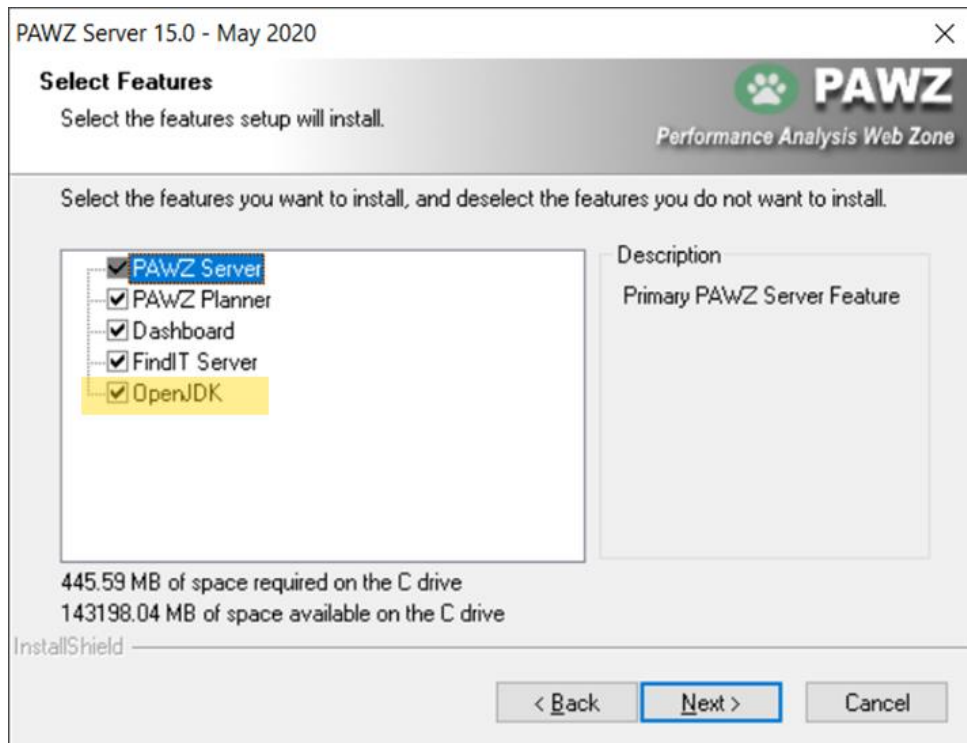
PAWZ Server management

- MSSQL Server added has Hosted nodes
 - SQL Server User Login
 - Active Directory Password Login

The screenshot shows the PAWZ 15.0 Node Policies configuration page. The interface includes a top navigation bar with tabs for View, Manage, Analyze, and Plan. The Manage tab is active, showing a list of policies for the 'mssqlserver' group. The main configuration area is divided into several sections: Node, Data Collection, Data Management, and Advanced Data Management. The Node section contains fields for Name, IP Address, DNS Suffix, OS, Cluster Member, Summary Group Member, Location, Dashboard Location Member, Dashboard Service Member, System Time Zone, and Description. The Data Collection section includes fields for Dump Interval, Peak Interval, Retain data for, Restart Attempts, Data Collector Version, PAWZ Agent Version, Status, and Status Check Frequency. The Data Management section includes checkboxes for Enable auto download, Generate trend data, Download analysis data only, Standard Download time, Retain data in PAWZ database for, Recover missing data for, Retain favorite data in PAWZ database for, Enable Data Quality Processing, and Enable Secondary Download. The Advanced Data Management section includes fields for Peak hours, Email Notification, and checkboxes for Check Local Data Directory and Enable Detailed Logging. A 'Test Database Connection' button is located at the bottom of the configuration area.

The screenshot shows the PAWZ - Google Chrome MSSQL DC Host Info dialog. The dialog is titled 'MSSQL DC Host Info' and contains a form for configuring the MSSQL Host DC Info. The form includes fields for Node Name, DC Host IP (Windows), MSSQL DNS String/IP, MSSQL Host Name, MSSQL Port, Authentication, User Name, Password, and Confirm Password. The Authentication section has two radio buttons: 'SQL Server Authentication' and 'Azure Active Directory - Password'. The 'Test Database Connection' button is located at the bottom of the form. The dialog also includes a 'Verbose Collector Logging' toggle switch and buttons for 'Back', 'Save', and 'Delete DC Host Info'.

- PAWZ Server Open JDK support
 - Installation has option to install OpenJDK



- PAWZ Server additional configuration
 - PAWZ software bundle information

Configuration of node **pawz(MSSQLSERVER)** on May 26, 2020

System	
nodename	pawz(MSSQLSERVER)
MSSQL Server Config Time Loaded	5/26/2020 1:01:00 AM
Operating System Name	MSSQL
Software Bundle Protocol	1430
Software Package	package.V15.0.ecap.pawz.asset.64.mssql.20190927
SQL	
MSSQL Server Name	pawz(MSSQLSERVER)
MSSQL Server Version	Microsoft SQL Azure (RTM) - 12.0.2000.8 Apr 9 2020 16:39:55
MSSQL Server Edition	SQL Azure
MSSQL Server vCPU Count	4
MSSQL Server Hyper Thread Ratio	4
MSSQL Server Max Workers	1220
MSSQL Server Virtual	True
MSSQL Server Instance Name	
MSSQL Server Product Level	RTM
MSSQL Server Product Version	12.0.2000.8

- MSSQL configuration information
 - SQL software edition and version

Configuration of node pawz(MSSQLSERVER) on May 26, 2020



System	
nodename	pawz(MSSQLSERVER)
MSSQL Server Config Time Loaded	5/26/2020 1:01:00 AM
Operating System Name	MSSQL
Software Bundle Protocol	1430
Software Package	package V15.0 ecap.pawz.asset 64 mssql 20190927
SQL	
MSSQL Server Name	pawz(MSSQLSERVER)
MSSQL Server Version	Microsoft SQL Azure (RTM) - 12.0.2000.8 Apr 9 2020 16:39:55
MSSQL Server Edition	SQL Azure
MSSQL Server vCPU Count	4
MSSQL Server Hyper Thread Ratio	4
MSSQL Server Max Workers	1220
MSSQL Server Virtual	True
MSSQL Server Instance Name	
MSSQL Server Product Level	RTM
MSSQL Server Product Version	12.0.2000.8

- PAWZ Server management
 - New PAWZ Server scheduling state web pages

PAWZ 15.0

View **Manage** **Analyze** **Plan**

PAWZ Server : VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

Dashboard Health Node Cluster Workload Master Exception Downloads Log/Files Map
summary node storage other pawz usage **scheduler** scheduler results email status log parser

Logged in as: Admin

PAWZ Scheduler

Group: mssqlserver
Node: Select Node Name
State: ALL
Type: ALL
Status: -Any-

Scheduler

Nodename	Type	Schedule	State	Status	RetryCount	Modified
copper(MSSQLSERVER)	Primary	26-May-2020 01:00	Completed	Complete	0	26-May-2020 01:01
pawz(MSSQLSERVER)	Primary	26-May-2020 01:00	Completed	Complete	0	26-May-2020 01:02
v01sql2014(mssql)	Primary	26-May-2020 01:00	Completed	Complete	0	26-May-2020 01:01
vsql2008(MSSQLSERVER)	Primary	26-May-2020 01:00	Completed	Complete	0	26-May-2020 01:01
build(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:02
e02_uk_db(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:02
ecapdev(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:02
h01_db_103(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:02
jaguar(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:01
vcored64(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:02
vpawz141uk(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:02
vtestdb(mssqlserver)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:02
zinc(MSSQLSERVER)	Primary	26-May-2020 04:00	Completed	Complete	0	26-May-2020 04:01

Help Info Logout

PAWZ 15.0

View **Manage** **Analyze** **Plan**

PAWZ Server : VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

Dashboard Health Node Cluster Workload Master Exception Downloads Log/Files Map
summary node storage other pawz usage **scheduler** scheduler results email status log parser

Logged in as: Admin

PAWZ Scheduler

Date: 26-May-2020
Group: mssqlserver
Node: Select Node Name
Type: -Any-
Status: Success

Scheduler Results for 26-May-2020

Node	Type	Started	Finished	Status	On Demand Type	Data Start	Data End
copper(MSSQLSERVER)	Primary	26-May-2020 01:01	26-May-2020 01:01	Success		25-May-2020 00:00	25-May-2020 23:59
pawz(MSSQLSERVER)	Primary	26-May-2020 01:01	26-May-2020 01:02	Success		25-May-2020 00:00	25-May-2020 23:59
v01sql2014(mssql)	Primary	26-May-2020 01:01	26-May-2020 01:01	Success		12-May-2020 00:00	12-May-2020 23:59
v01sql2014(mssql)	Primary	26-May-2020 01:01	26-May-2020 01:01	Success		19-May-2020 00:00	19-May-2020 23:59
build(mssqlserver)	Primary	26-May-2020 04:01	26-May-2020 04:02	Success		25-May-2020 00:00	25-May-2020 23:59
e02_uk_db(mssqlserver)	Primary	26-May-2020 04:01	26-May-2020 04:02	Success		25-May-2020 00:00	25-May-2020 23:59
ecapdev(mssqlserver)	Primary	26-May-2020 04:01	26-May-2020 04:02	Success		25-May-2020 00:00	25-May-2020 23:59
h01_db_103(mssqlserver)	Primary	26-May-2020 04:01	26-May-2020 04:02	Success		25-May-2020 00:00	25-May-2020 23:59
vcored64(mssqlserver)	Primary	26-May-2020 04:01	26-May-2020 04:02	Success		25-May-2020 00:00	25-May-2020 23:59
vpawz141uk(mssqlserver)	Primary	26-May-2020 04:01	26-May-2020 04:02	Success		25-May-2020 00:00	25-May-2020 23:59
vtestdb(mssqlserver)	Primary	26-May-2020 04:01	26-May-2020 04:02	Success		25-May-2020 00:00	25-May-2020 23:59

Help Info Logout

- PAWZ Server email reports
 - Data collector Low Diskspace reporting
 - Data collector suspended reporting

PAWZ data collector alert report: 2

Server: ECAPDEV (TEST)

Data collectors suspended: 1

Data collectors with low space: 1

User: admin

Data collectors suspended, (Data collection stopped due to low diskpace. Free diskpace is below the suspend threshold.):

Name	IP	OS	Time	Status	Threshold units	Threshold resume	Threshold suspend
sunx64g	192.168.1.170	Sun Solaris x86	27-May-2020 23:32	DC Suspended	Gb	1.0	0.8

Name	IP	OS	Time	Status	Threshold units	Threshold resume	Threshold suspend
eo1sun32	192.168.1.157	Sun Solaris x86	27-May-2020 23:32	DC Up, Low Diskspace	Percent	20.0	10.0

- PAWZ Server What-IF modeling changes
 - Support for Virtual OS

PAWZ 15.0

PAWZ Server: VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

Logged in as: Admin

What If

Planner Info

Group: LINSRV Search Reset

NodeName: linsrv_00001

Operating System: Windows

Merge / Model File: C:\inetpub\wwwroot\pawz\res\planfiles\linsrv_00001_2020may23_0000.merg Browse...

Current Configuration

Cpu Vendor: Hewlett-Packard Company

Cpu Model: ProLiant DL360 G5 (2.66 GHz, Intel Xeon processor 5150) - 21

Processor: Intel Xeon 5150 (2.66 GHz, 4 MB L2 shared, 1333 MHz bus)

Number of CPUs: 8 SPEC Rating: 21 Memory: 32104 mb Number of Disks: 1

Preserve Save Current Configuration

Proposed Configuration

OS: Solaris

Cpu Vendor: Hewlett-Packard Company

Cpu Model: ProLiant DL370 G6 (3.2 GHz, Intel Xeon W5580) - 38.2

Processor: Intel Xeon W5580

Number of CPUs: 16 SPEC Rating: 38.2 Memory: 49152 MB Number of Disks: 1

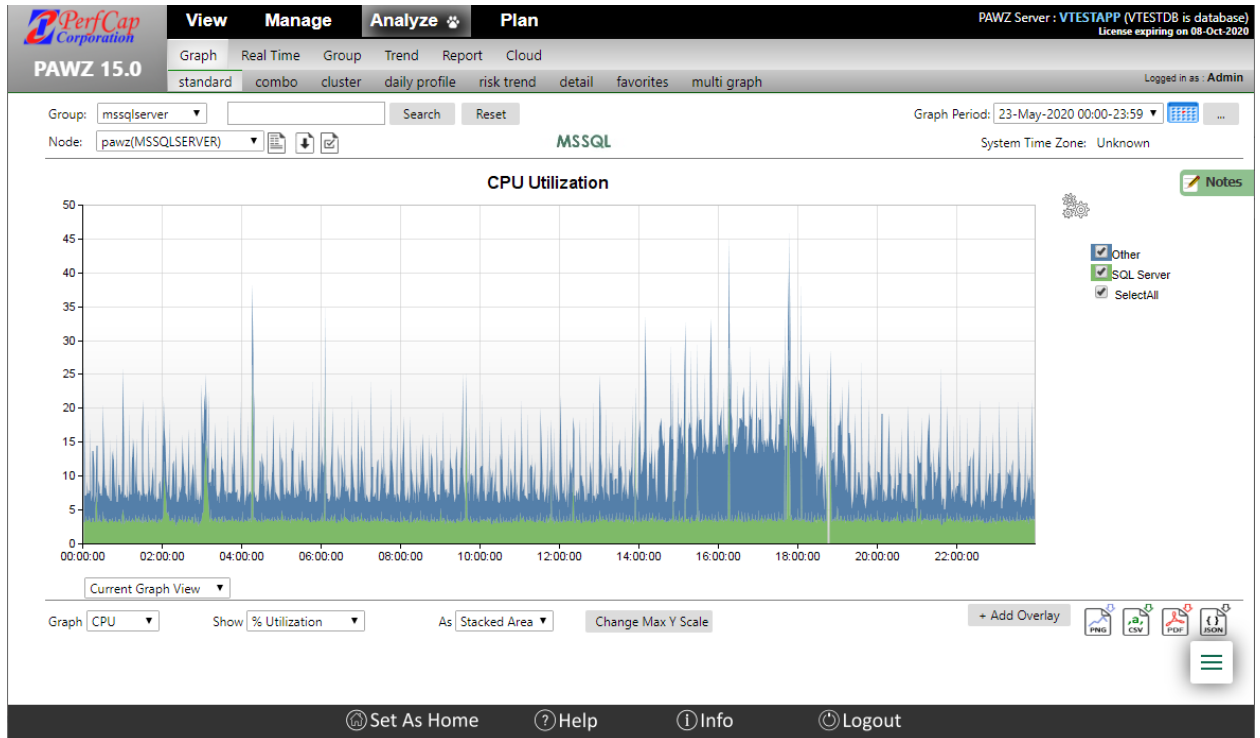
Run Saturation Analysis

Help Info Logout

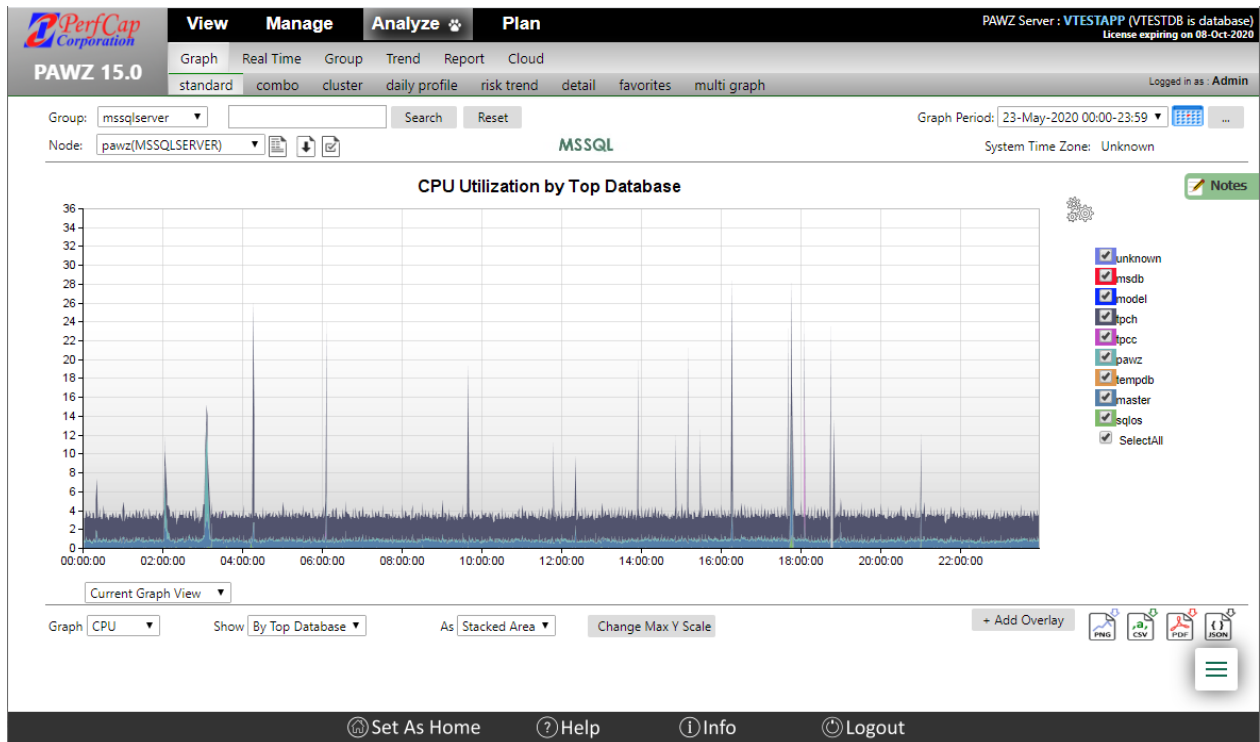
PAWZ Server new Data Items

Microsoft SQL

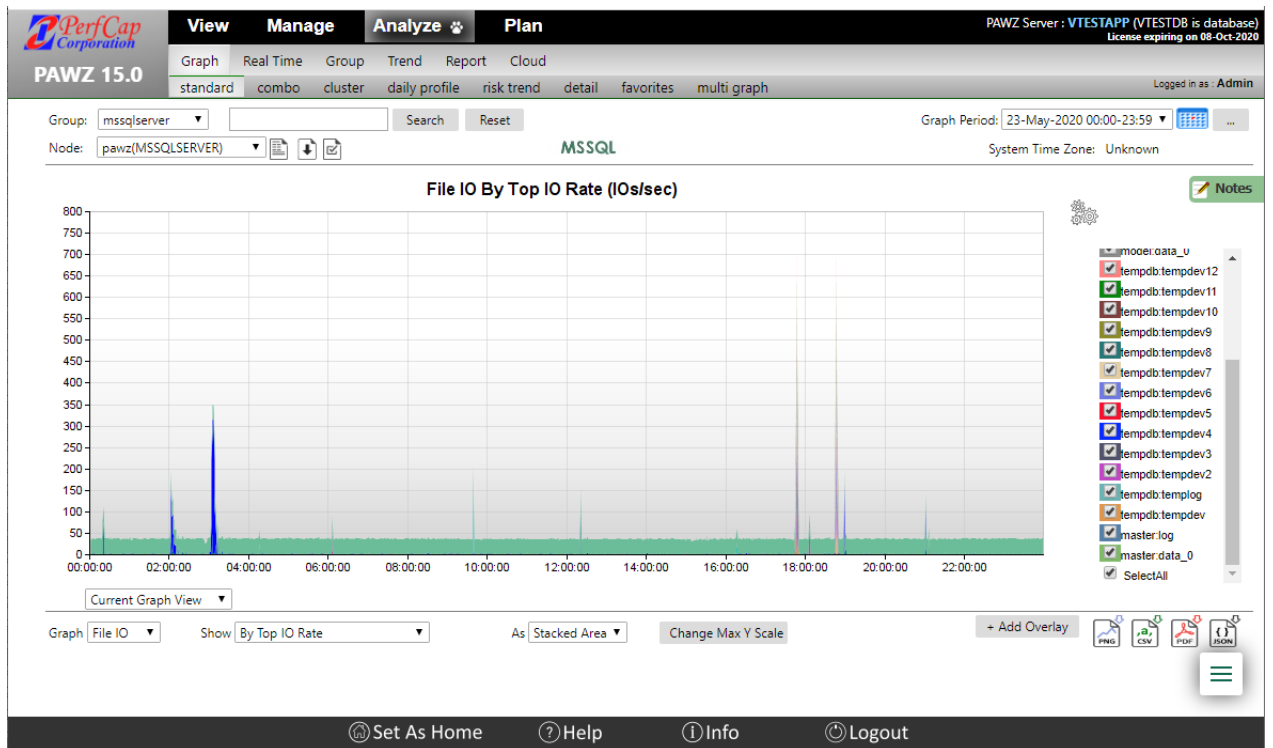
- CPU -> %Utilization



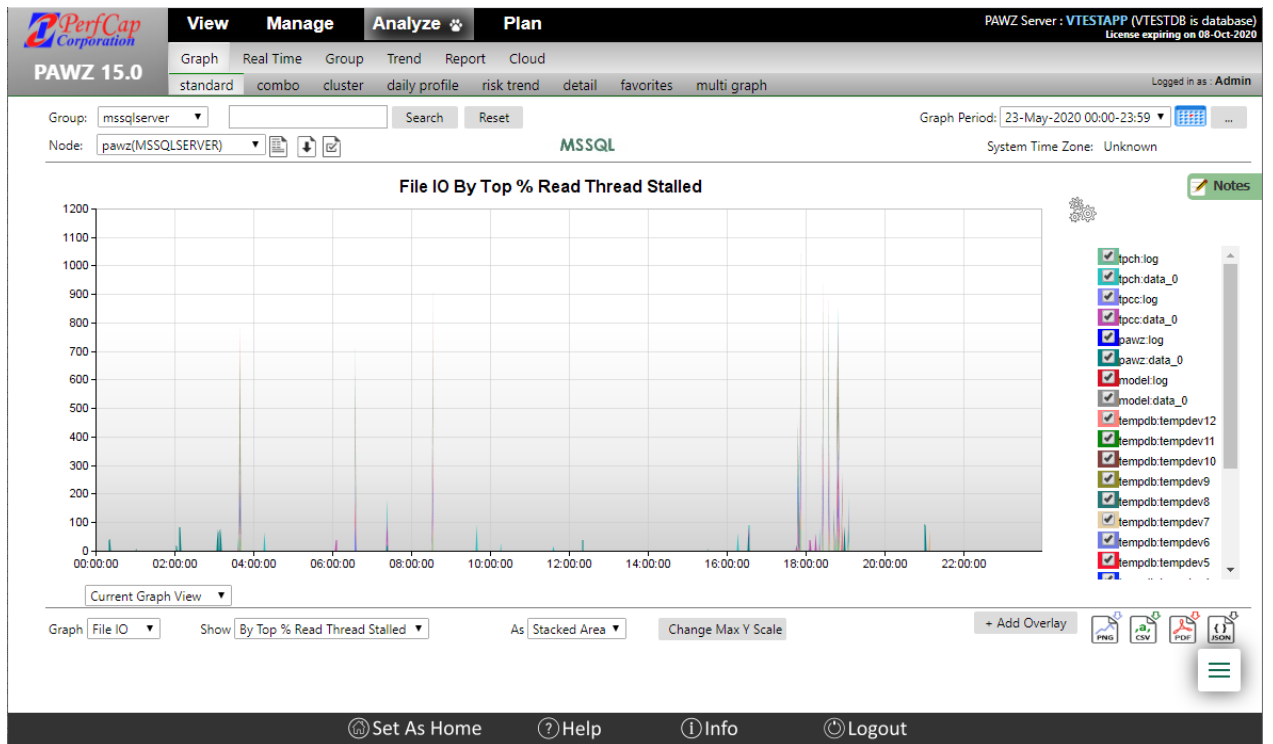
- CPU -> Utilization by Top Databases



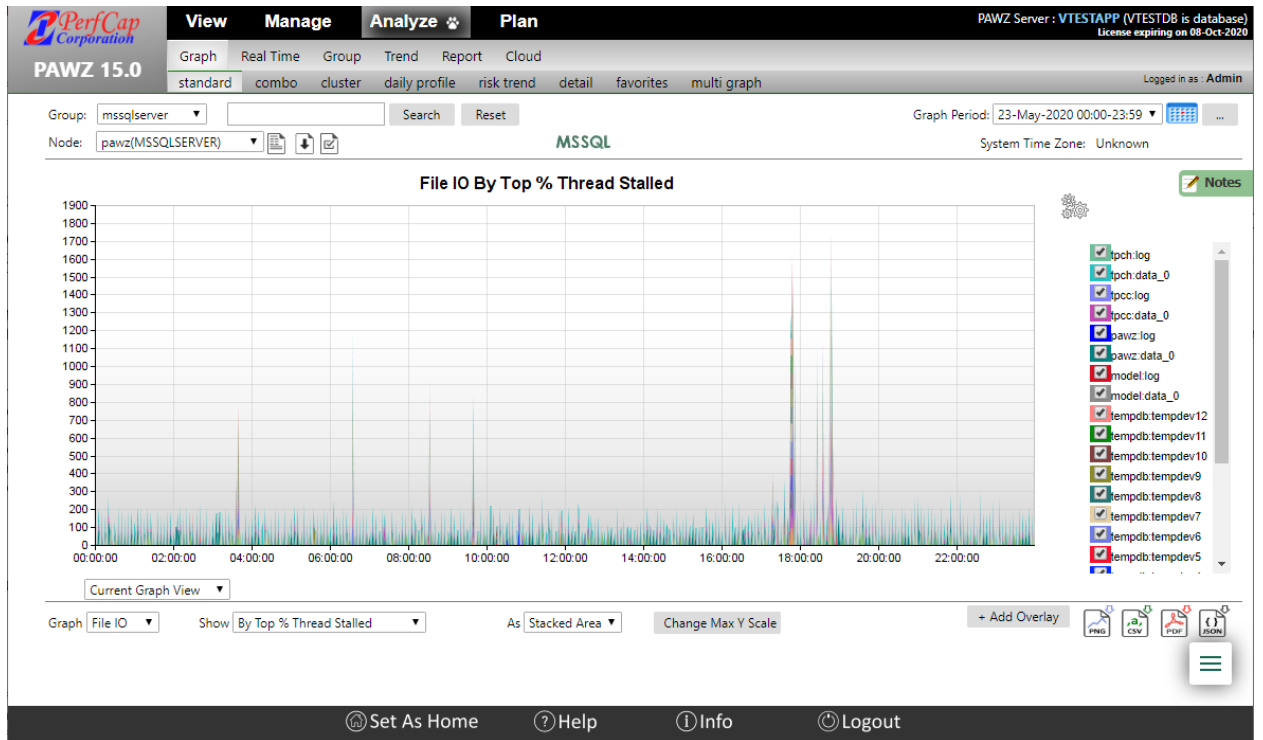
- File IO -> By Top IO Rate



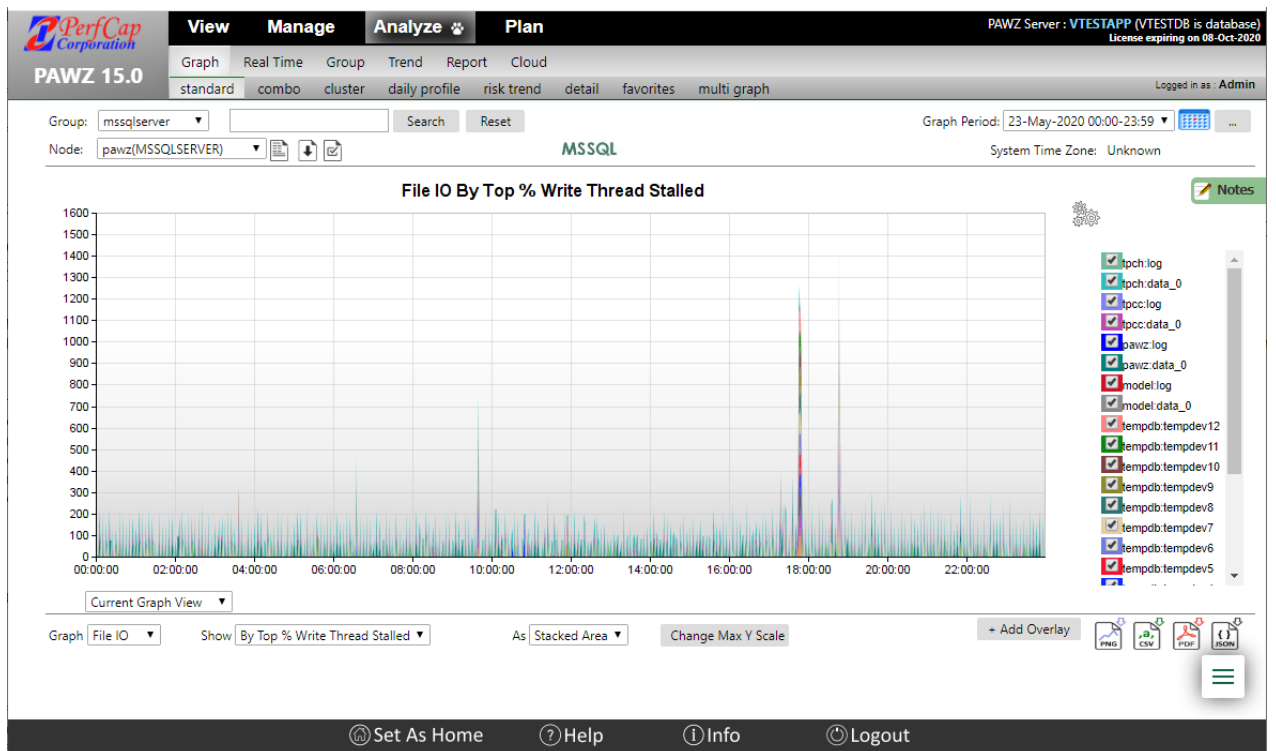
- File IO -> By Top % Read Thread Stalled



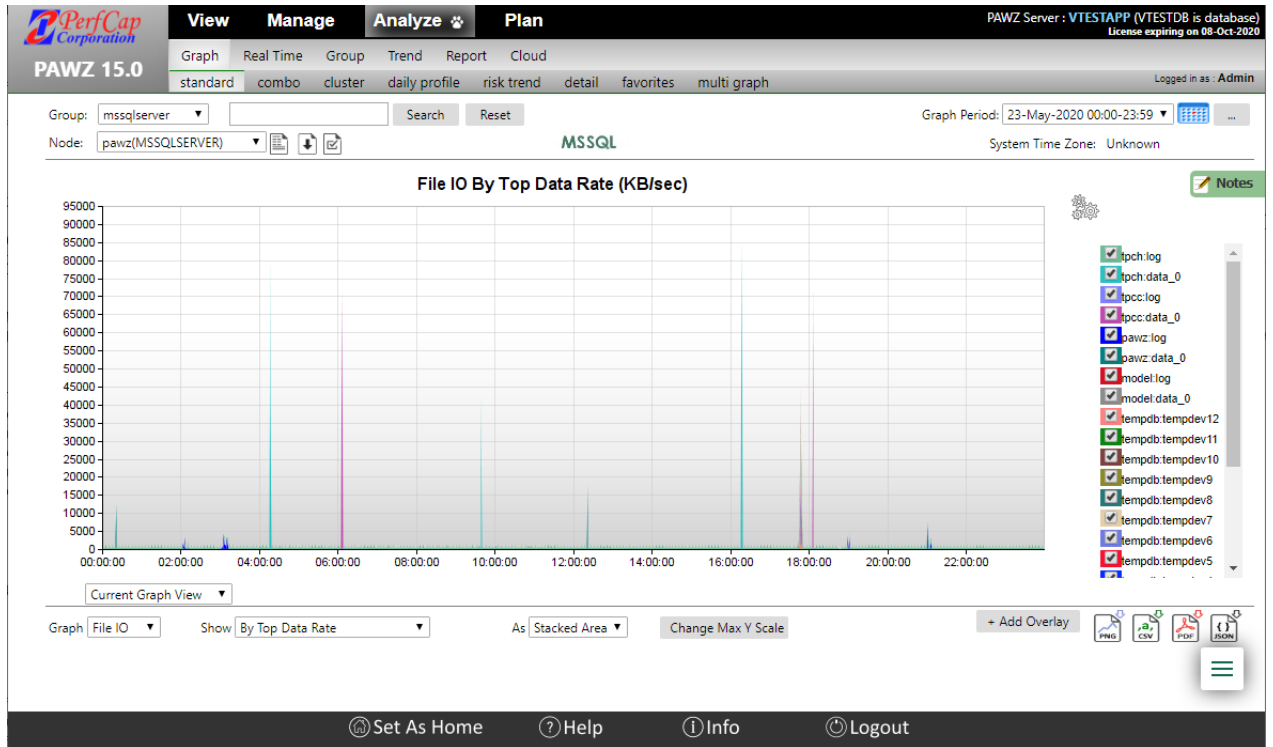
- File IO -> By Top % Thread Stalled



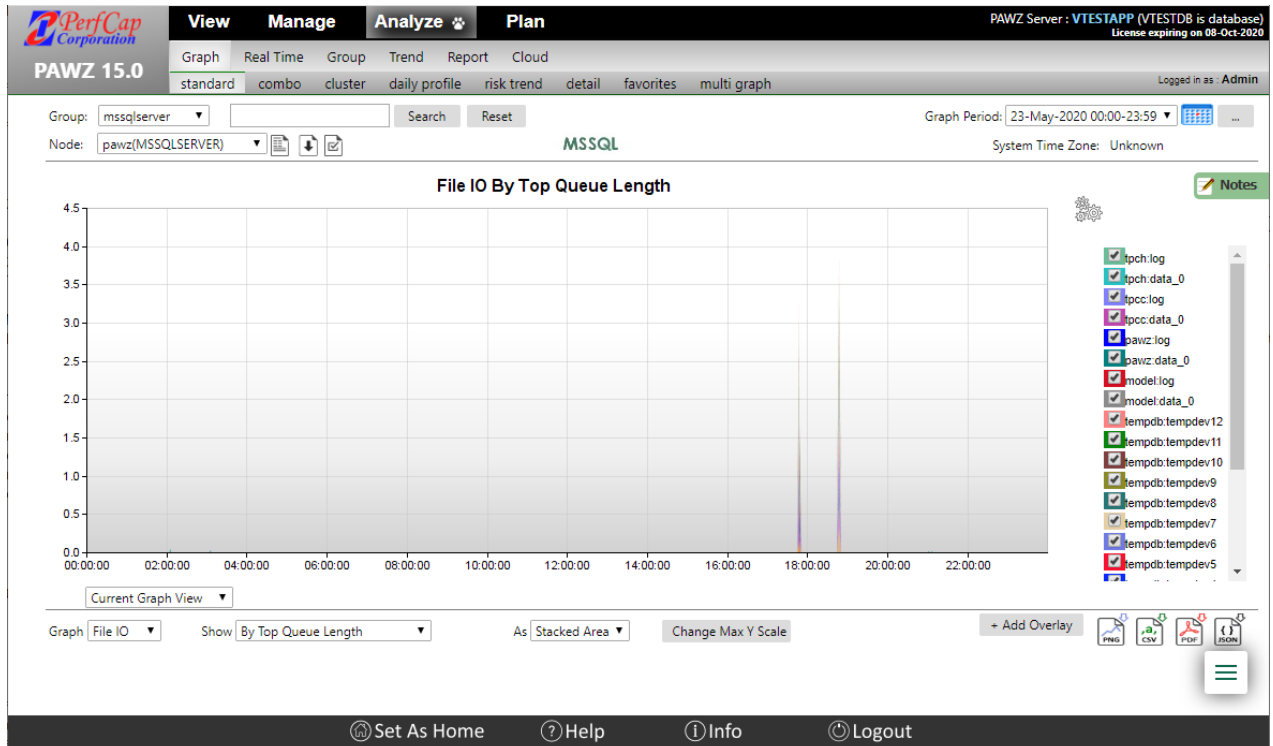
- File IO -> By Top % Write Thread Stalled



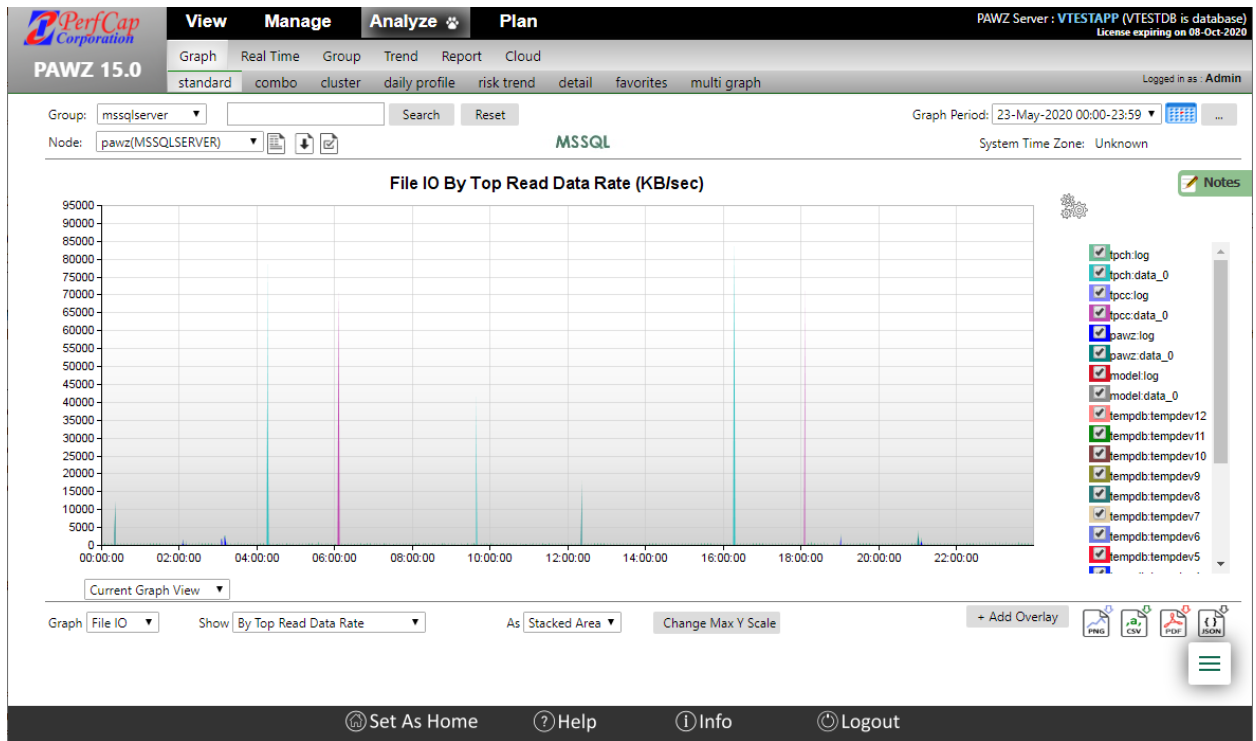
- File IO -> By Top Data Rate



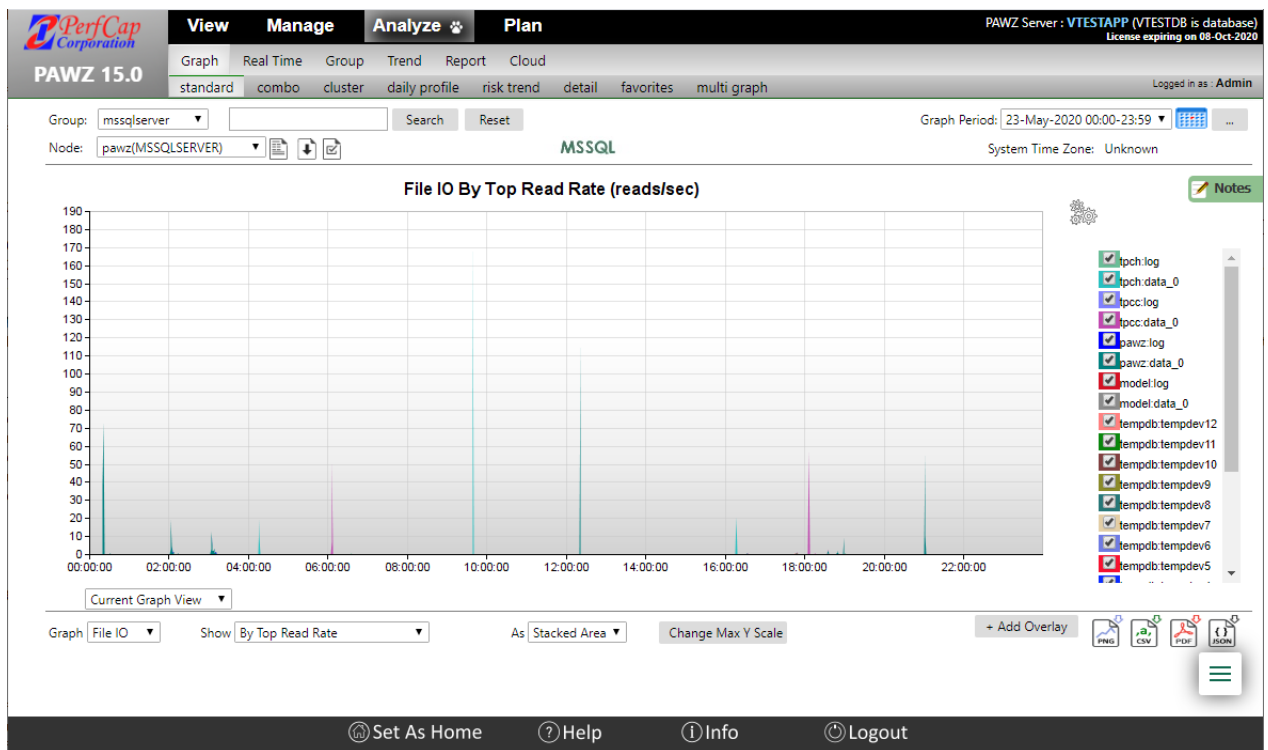
- File IO -> By Top Queue Length



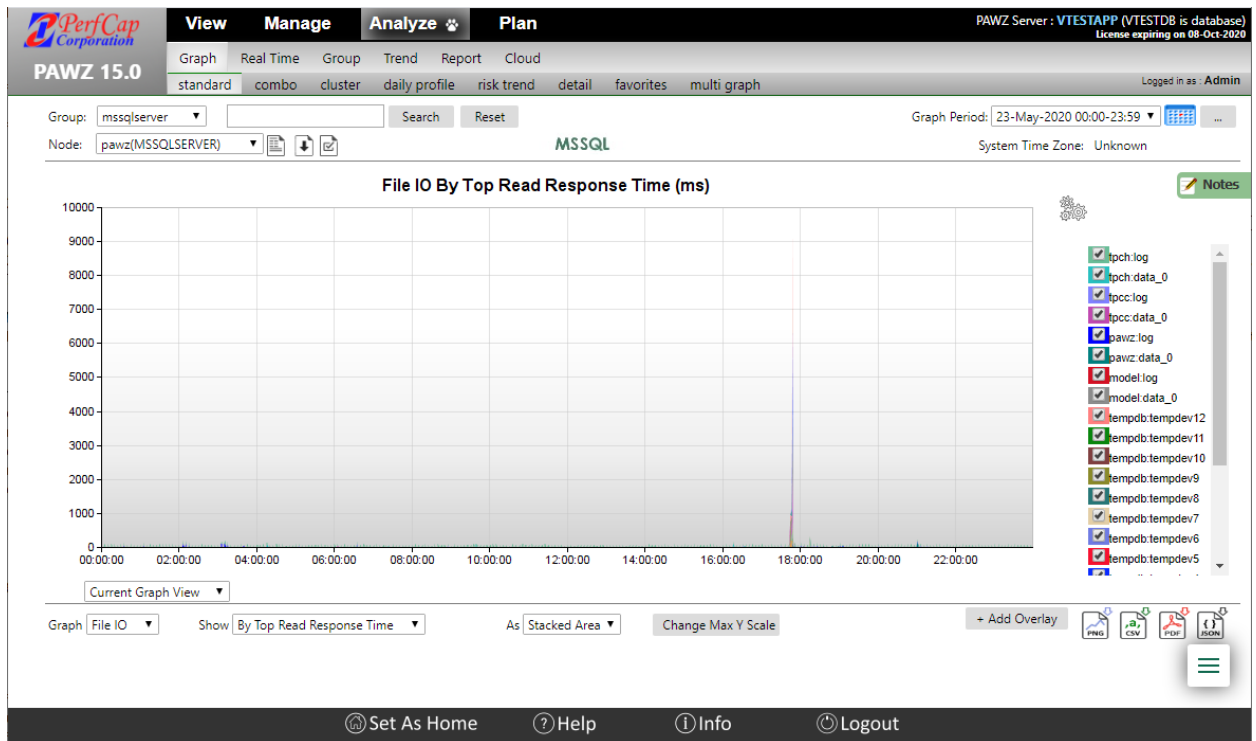
- File IO -> By Top Read Data Rate



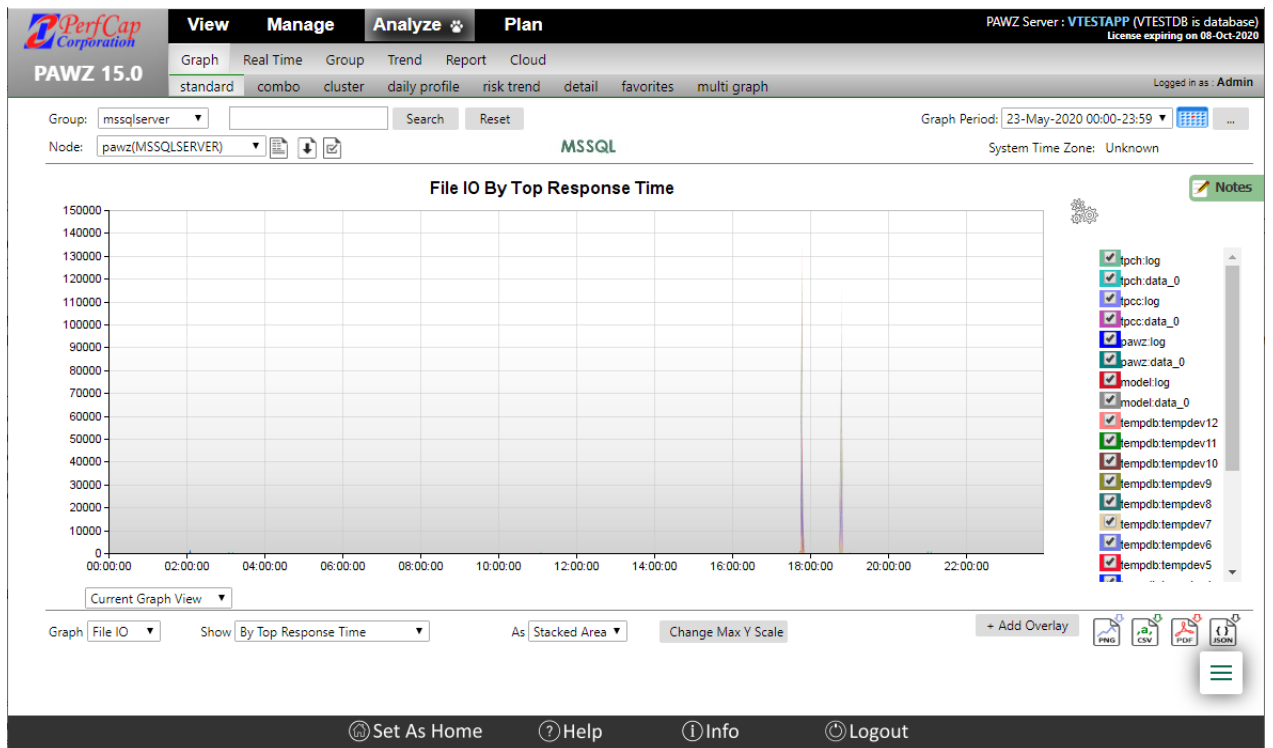
- File IO -> By Top Read Rate



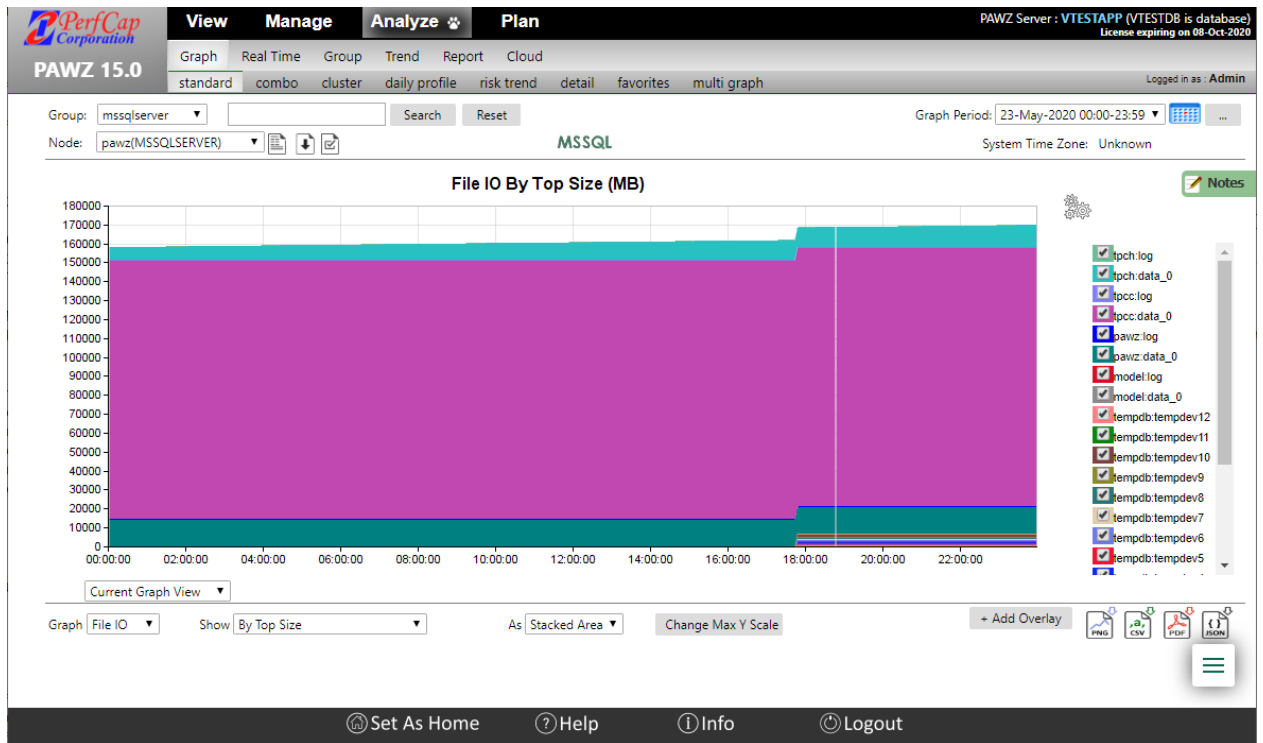
- File IO -> By Top Read Response Time



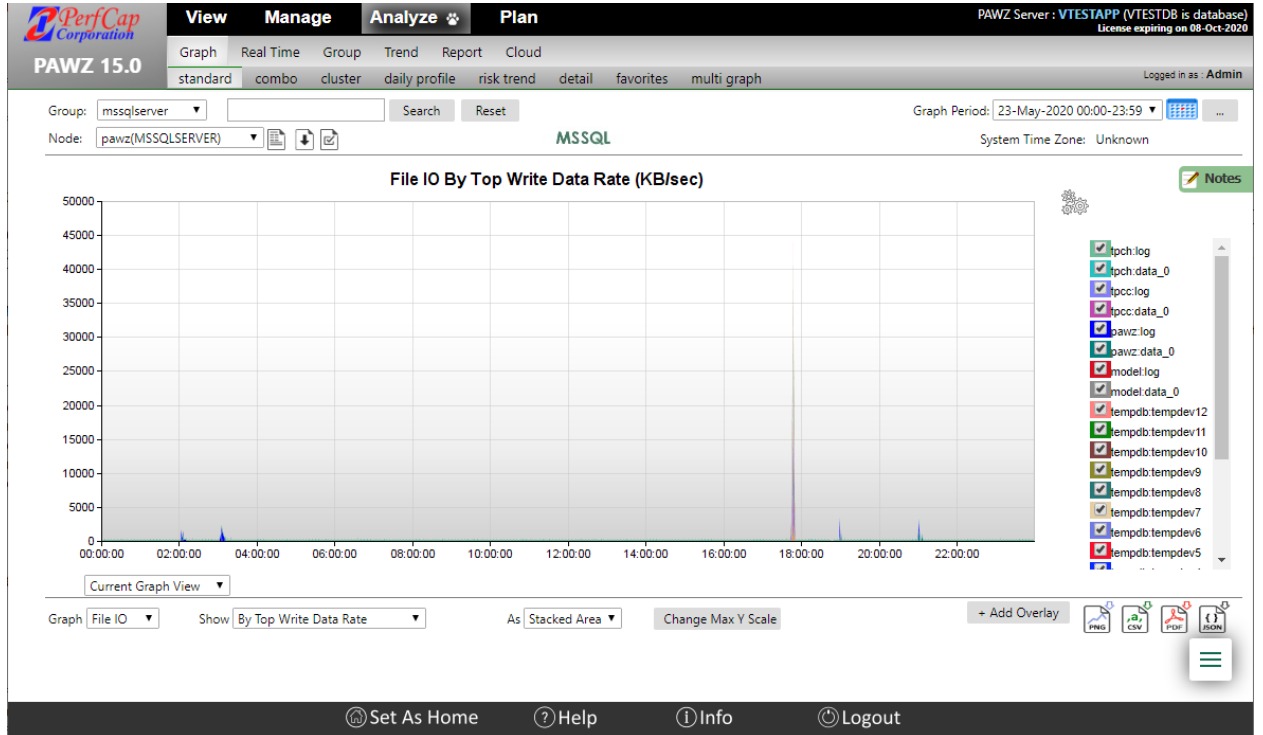
- File IO -> By Top Response Time



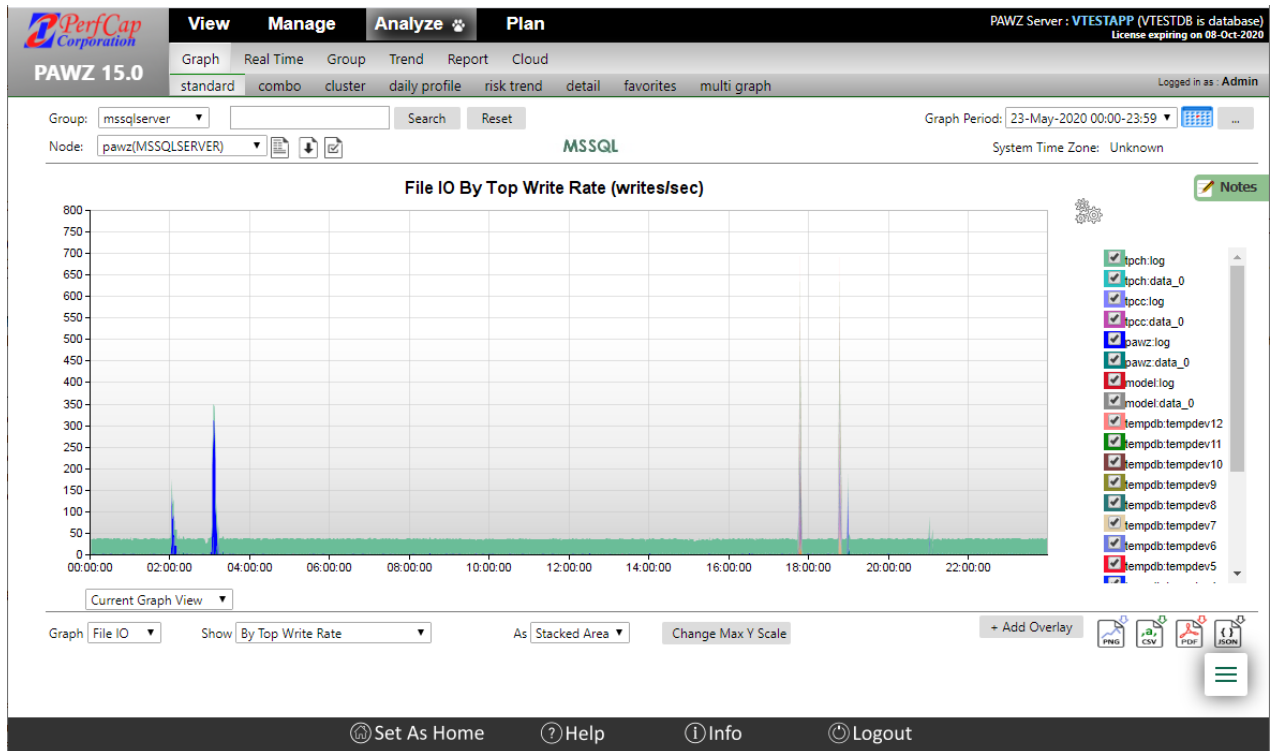
- File IO -> By Top Size



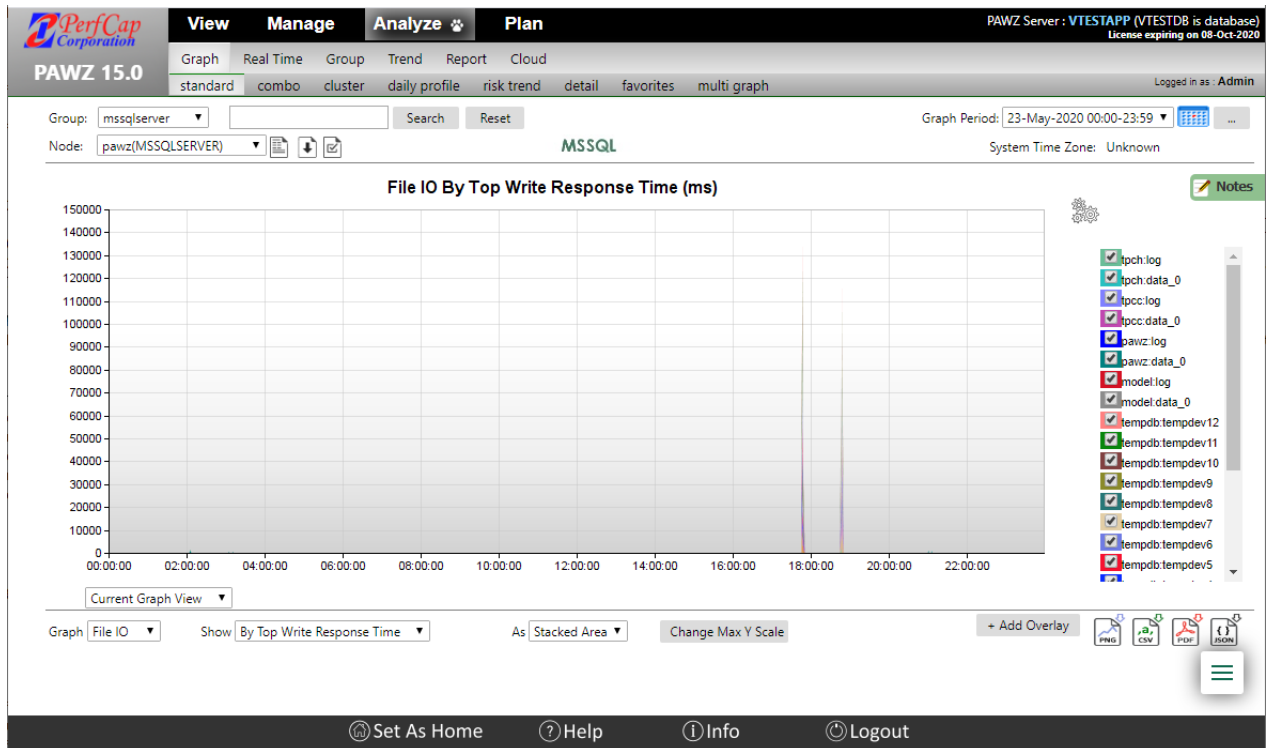
- File IO -> By Top Write Data Rate



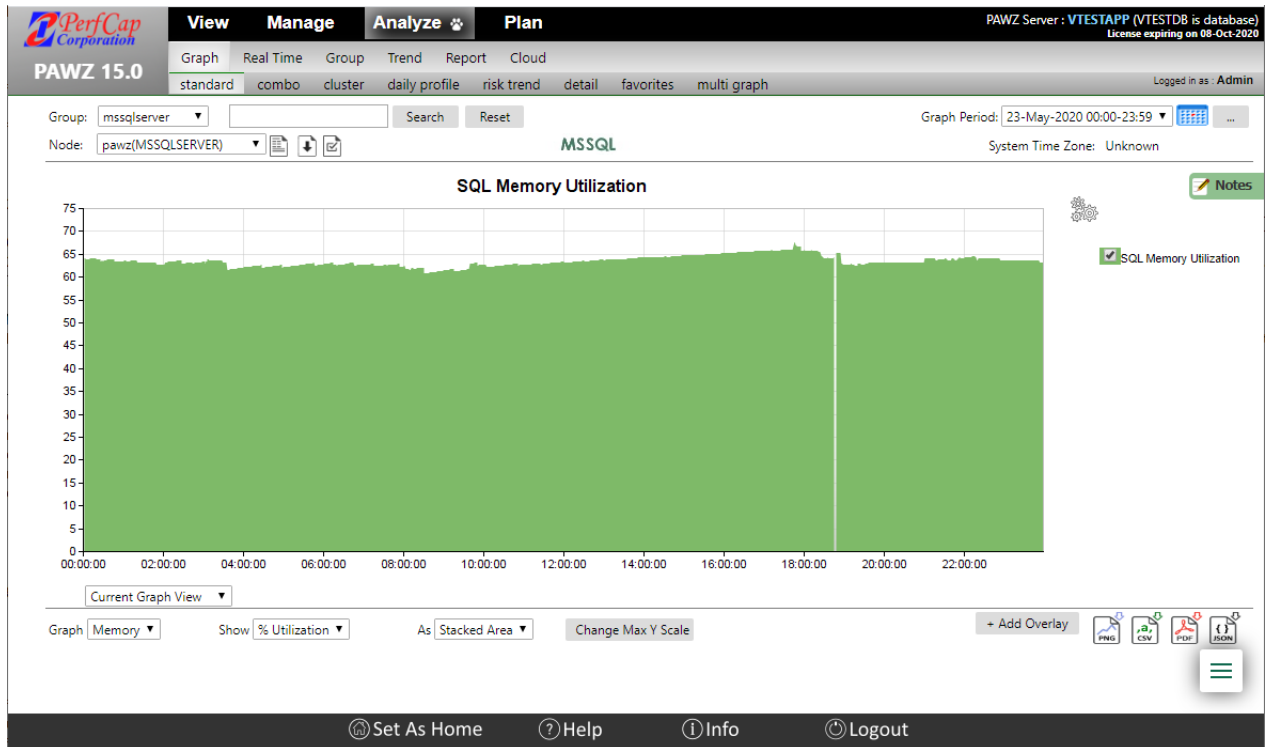
- File IO -> By Top Write Rate



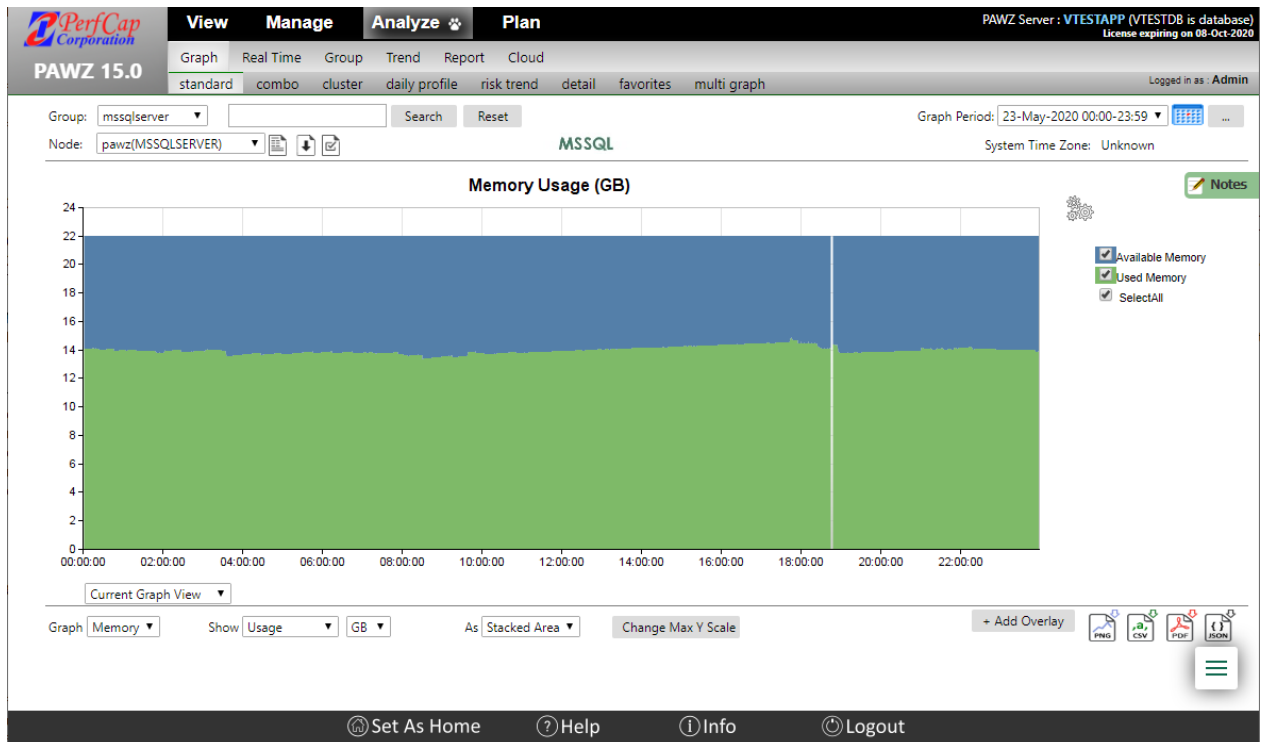
- File IO -> By Top Write Response Time



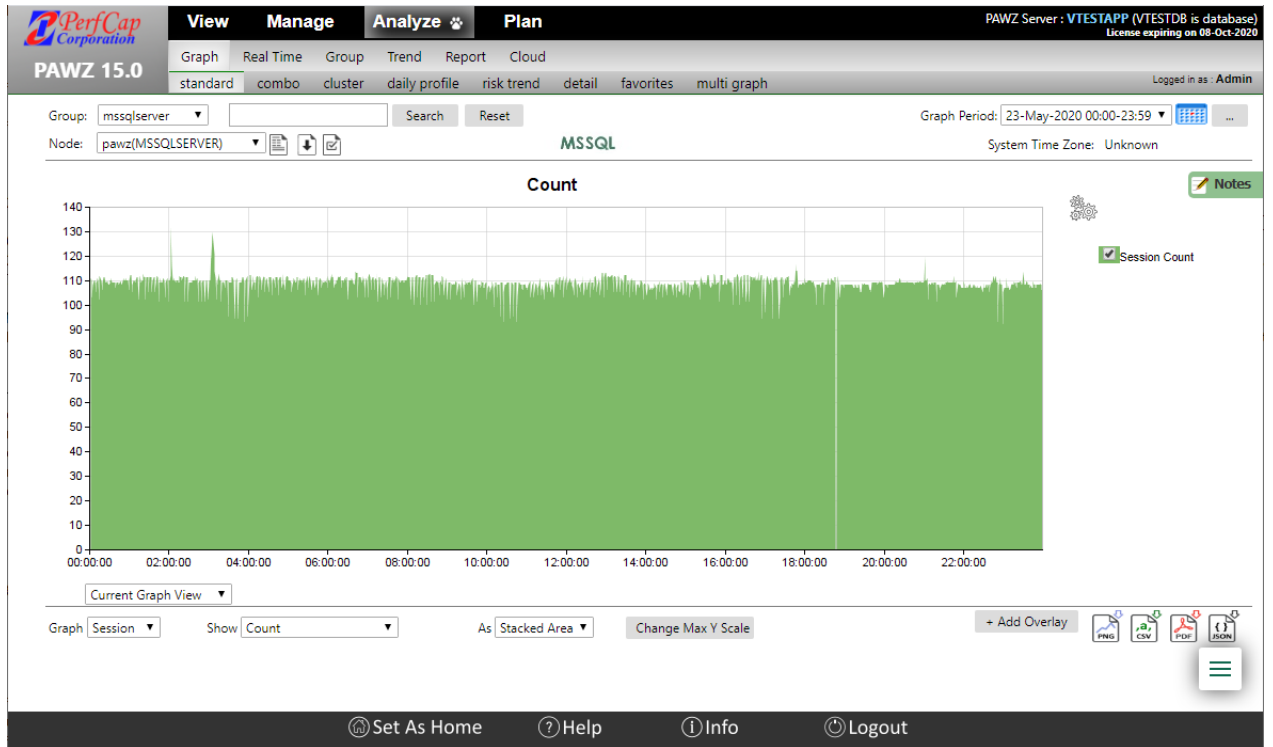
- Memory -> % Utilization



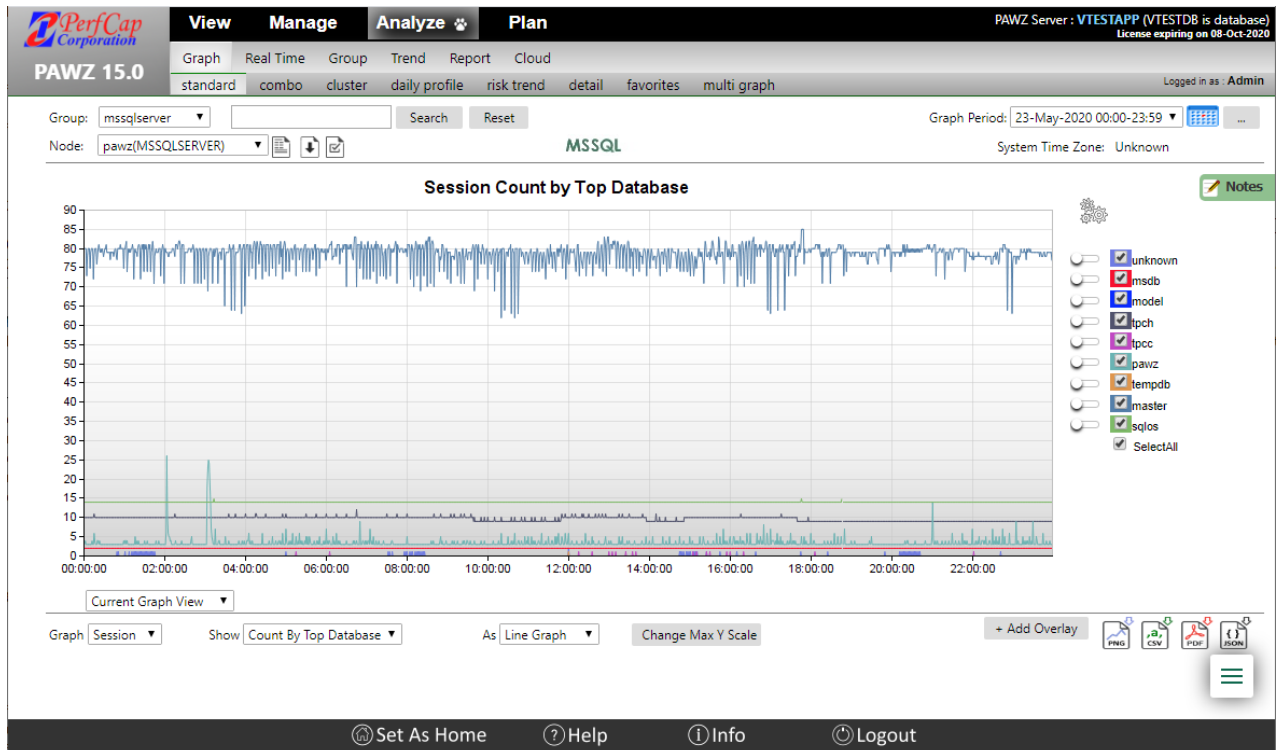
- Memory -> Usage



- Session -> Count



- Session -> Count by Top Databases



PAWZ Web site

- View -> Node
 - Added new “Node Status” page

PAWZ 15.0

PAWZ Server: VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

View Manage Analyze Plan

Dashboard Health Node Cluster Workload Master Exception Downloads Log/Files Map

information status config (classic) config version data collector agent daily exceptions real time exceptions risk exceptions

Logged in as Admin

Status

Group: ALL

Node: Select Node Name

IP: -Any-

OS: -Any-

DC Status: -Any-

PA Status: -Any-

RTA Status: -Any-

Asset Status: -Any-

Nodename	IP	OS	DC Status	PA Status	RTA Status	Asset Status	Status Time	Last Data
aix64	192.168.1.138	IBM AIX	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100356
build	192.168.1.205	Windows	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100361
build(mssqlserver)	192.168.1.205	MSSQL	Up	Unknown	Unknown	Asset agent not enabled	26-May-2020 15:15	100834
copper	192.168.1.101	Windows	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100363
copper(MSSQLSERVER)	192.168.1.101	MSSQL	Up	Unknown	Unknown	Asset agent not enabled	26-May-2020 15:15	100292
e01esox64	192.168.1.208	Windows	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100379
e01redhat6	192.168.1.194	Linux	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100348
e01suse11	192.168.1.195	Linux	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100347
e02_uk_cli	192.168.1.166	Windows	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100376
ecapdev	192.168.1.167	Windows	Up	Up	Up	Asset agent not enabled	26-May-2020 15:00	100367
ecapdev(mssqlserver)	192.168.1.167	MSSQL	Up	Unknown	Unknown	Asset agent not enabled	26-May-2020 15:15	100839

Help Info Logout

- Added new “Config” page

PAWZ 15.0

PAWZ Server: VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

View Manage Analyze Plan

Dashboard Health Node Cluster Workload Master Exception Downloads Log/Files Map

information status config (classic) config version data collector agent daily exceptions real time exceptions risk exceptions

Logged in as Admin

Configuration

Group: ALL

Node: godel, linsrv_00001, sunsrv_00001, winsrv_00001

IP: -Any-

OS: -Any-

OS Version: -Any-

System Model: -Any-

Cores: -Any-

Processors: -Any-

Memory: -Any-

Disks: -Any-

Nodename	IP	OS	OsVersion	Model	Cores	Processors	Memory	Disks
godel	192.168.0.75	Linux	SUSE Linux Enterprise Server 11 (x86_64)	VMware Virtual Platform (2666.8 MHz)	2	2	1948	3
winsrv_00001	192.168.54.1	Windows	Microsoft Windows Server 2012 R2 Standard	VMware Virtual Platform	4	2	12287	2
sunsrv_00001	192.168.51.1	Windows	5.11	Sun-Fire-T200	8	32	32640	11
linsrv_00001	192.168.50.1	Windows	Red Hat Enterprise Linux Server release 6.4 (Santiago)	ProLiant DL360 G5 (2500.1 MHz)	4	8	32104	6

Help Info Logout

- Added new “Version” page

PAWZ 15.0

View Manage Analyze Plan

PAWZ Server : VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

Dashboard Health Node Cluster Workload Master Exception Downloads Log/Files Map

information status config (classic) config version data collector agent daily exceptions real time exceptions risk exceptions

Version

Group: ALL

Node: Select Node Name

IP: -Any-

OS: -Any-

DC Version: -Any-

PA Version: -Any-

Asset Version: -Any-

Nodename	IP	OS	DC Version	PA Version	Asset Version
000292601952	192.168.1.209	EMC	V15.0-001:May 9 2020	V15.0-001:May 9 2020	
001619403311	192.168.1.209	EMC	V15.0-001:May 9 2020	V15.0-001:May 9 2020	
402139532121	192.168.1.209	EMC	V15.0-001:May 9 2020	V15.0-001:May 9 2020	
882180912002	192.168.1.209	EMC	V15.0-001:May 9 2020	V15.0-001:May 9 2020	
AIX_00000	192.168.211.1	IBM AIX	T14.1-006:Oct 11 2018	T14.1-006:Oct 11 2018	T14.1-006:Oct 11 2018
AIX_00001	192.168.211.10	IBM AIX	T14.1-006:Oct 11 2018	T14.1-006:Oct 11 2018	T14.1-006:Oct 11 2018
AIX_00002	192.168.211.2	IBM AIX	T14.1-006:Oct 11 2018	T14.1-006:Oct 11 2018	T14.1-006:Oct 11 2018

Help Info Logout

- Added new “Data Collector” Page

PAWZ 15.0

View Manage Analyze Plan

PAWZ Server : VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

Dashboard Health Node Cluster Workload Master Exception Downloads Log/Files Map

information status config (classic) config version data collector agent daily exceptions real time exceptions risk exceptions

Data Collector settings

Group: ALL

Node: Select Node Name

IP: -Any-

OS: -Any-

Dump: -Any-

Peak: -Any-

Retention: -Any-

Verbose: -Any-

Nodename	IP	OS	Dump	Peak	FileRetain	LogRetain	Suspend	Resume
AIX_00000	192.168.211.1	IBM AIX	60	5	30	5	18.0	22.1
AIX_00001	192.168.211.10	IBM AIX	60	5	30	5	18.0	22.1
AIX_00002	192.168.211.2	IBM AIX	60	5	30	5	18.0	22.1
AIX_00003	192.168.211.3	IBM AIX	60	5	30	5	18.0	22.1
AIX_00004	192.168.211.4	IBM AIX	60	5	30	5	18.0	22.1
AIX_00005	192.168.211.5	IBM AIX	60	5	30	5	18.0	22.1
AIX_00006	192.168.211.6	IBM AIX	60	5	30	5	18.0	22.1
AIX_00007	192.168.211.7	IBM AIX	60	5	30	5	18.0	22.1
AIX_00008	192.168.221.8	IBM AIX	60	5	30	5	18.0	22.1
AIX_00009	192.168.221.9	IBM AIX	60	5	30	5	18.0	22.1
AIX_00019	192.168.221.11	IBM AIX	60	5	30	5	18.0	22.1
aix64	192.168.1.138	IBM AIX	60	10	30	5	18.0	22.1

Help Info Logout

- Added new “PAWZ Agent Settings” Page

PAWZ 15.0

View Manage Analyze Plan

PAWZ Server : VTESTAPP (VTESTDB is database)
License expiring on 08-Oct-2020

Dashboard Health Node Cluster Workload Master Exception Downloads Log/Files Map

information status config (classic) config version data collector agent daily exceptions real time exceptions risk exceptions

Agents settings

Group: ALL

Node: Select Node Name

IP: -Any-

OS: -Any-

Port: -Any-

AppDataDirectory: -Any-

Log Retention: -Any-

Verbose: -Any-

Nodename	IP	OS	Port	AppDataDir
AIX_00000	192.168.211.1	IBM AIX	1661	/usr/perfcap/data
AIX_00001	192.168.211.10	IBM AIX	1661	/usr/perfcap/data
AIX_00002	192.168.211.2	IBM AIX	1661	/usr/perfcap/data
AIX_00003	192.168.211.3	IBM AIX	1661	/usr/perfcap/data
AIX_00004	192.168.211.4	IBM AIX	1661	/usr/perfcap/data
AIX_00005	192.168.211.5	IBM AIX	1661	/usr/perfcap/data
AIX_00006	192.168.211.6	IBM AIX	1661	/usr/perfcap/data
AIX_00007	192.168.211.7	IBM AIX	1661	/usr/perfcap/data
AIX_00008	192.168.221.8	IBM AIX	1661	/usr/perfcap/data
AIX_00009	192.168.221.9	IBM AIX	1661	/usr/perfcap/data
AIX_00019	192.168.221.11	IBM AIX	1661	/usr/perfcap/data
aix64	192.168.1.138	IBM AIX	1661	/usr/perfcap/data

Help Info Logout

- Added new “Node Exceptions” Page

- Added new “Risk Exceptions” Page

- Manage -> Admin -> Settings

- Added Scheduler Queue Logging

- Manage -> Node -> Policies
 - Added Custom Properties for PAWZ Nodes

- Added Support for Microsoft SQL Server Nodes (Ability to add On Premise and Azure Cloud SQL nodes)

- Added *Download Now / View Node Download Status* buttons for quick access

- View

Manage

Analyze

Plan

PAWZ Server : VIESTAPP (VIESTDB is database)
License expiring on 08-Oct-2020

PAWZ 15.0

NodeClusterGroupWorkloadExceptionFavoriteTemplateReportCloudPlanDashboardMapAdmin

pawz servicepawz settingsusershealthagent updategraph preferencescsv import

Logged in as: Admin

CSV Importer

Import Nodes
Update Nodes
Import Notes

Allowed file extensions : CSV

Choose File

No file chosen

Upload

Help

Info

Logout

- PAWZ 15.0**

View | **Manage** | **Analyze** | **Plan**

Graph | **Real Time** | **Group** | **Trend** | **Report** | **Cloud**
standard | **combo** | **cluster** | **daily profile** | **risk trend** | **detail** | **favorites** | **multi graph**

Group: ALL | **Node:** aix64 | **Search** | **Reset**

IBM AIX

Graph Period: 25-May-2020 00:00-23:59 | **System Time Zone:** EST5EDT+05:00

Log in as: Admin

CPU Utilization

Current Graph View

Graph | **CPU** | **Show Utilization** | **As Stacked Area** | **Change Max Y Scale**

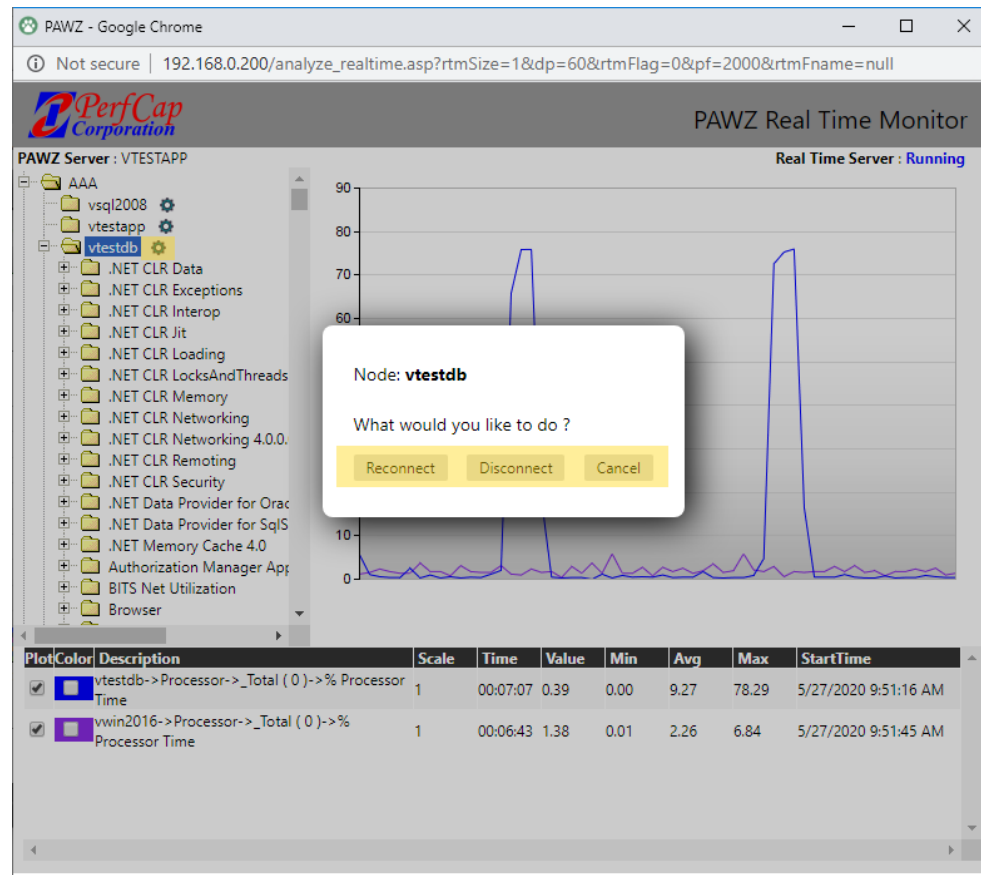
Build	CPU	Utilization	Time Period	Remove Overlay	Change Max Y Scale
build	CPU	Utilization	21-May-2020 00:00-23:59	Remove Overlay	Change Max Y Scale
godel	CPU	By Processor	22-May-2020 00:00-23:59	Remove Overlay	Change Max Y Scale
h01_0b_103	CPU	By Workload	25-May-2020 00:00-23:59	Remove Overlay	Change Max Y Scale

Set As Home | **Help** | **Info** | **Logout**

- The screenshot shows the PAWZ Server (VTEST08) interface. The top navigation bar includes tabs for View, Manage, Analyze, and Plan. The main content area displays a graph titled "CPU Utilization by Top Images". The graph shows CPU usage over a 24-hour period, with a peak around 03:00:00. The interface includes a search bar, a list of system components on the right, and a bottom navigation bar with buttons for Set As Home, Help, Info, and Logout.

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- Analyze -> Real Time Server
 - Added Re-Connect node feature



Thank You

If you have any questions please contact us

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