



Hewlett Packard
Enterprise

Automated Ops Management, Payment Monitors, Smart Analytics



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Q2 2024

Live & Analytics – Integrated Solutions

Operations



Automated Operation Management Solution

Web ViewPoint
Enterprise

Performance



Performance Analytics Solution

Local Analyst

Remote Analyst

Kyndryl's Journey

kyndryl

Web ViewPoint
Enterprise

Local Analyst

- 2020 – Present :

- Saving ~700,000 Euros each year

- 2024:

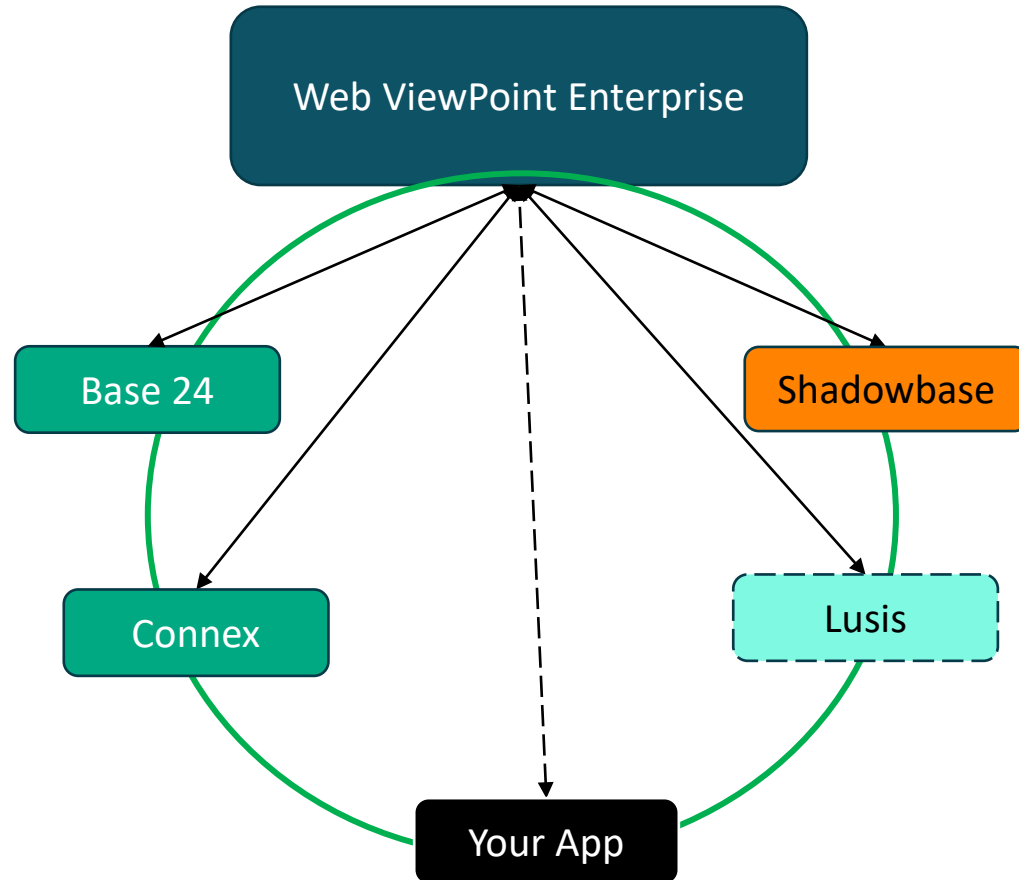
- Dropping antiquated products:
 - Additional savings
 - Improving availability
 - Lower resource utilization

- 2024 +

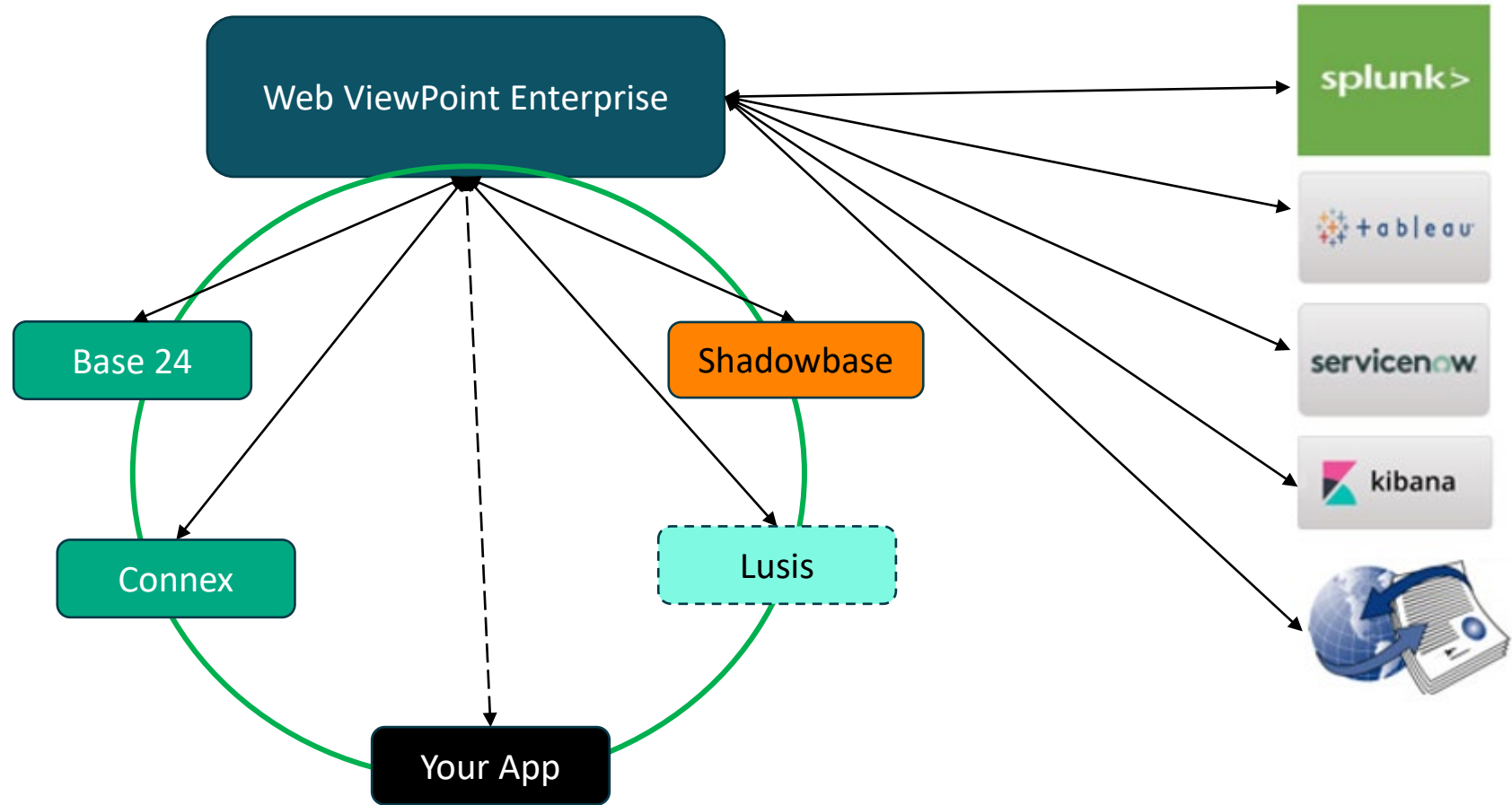
- Off platform Automated Smart Analytics
- Performance improvements
- Resource utilization Enhancements
- Exception detections
- Application monitoring
- And more...



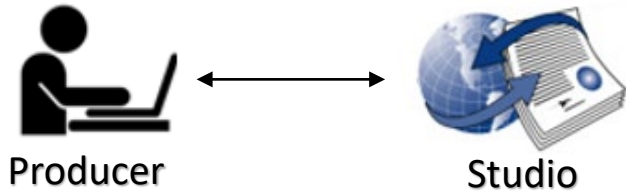
Open Architecture



Power of Integration



Be Creative: Studio



Add Product [X]

Name:

ID:

Product Description:

Version:

Version Description:

Upgrade Options: [v]

Owner:

SSID:

* Required

Web ViewPoint Enterprise Version: WVPvABCDvNNO [?]

About
Created at 10:30 PST on June 3, 2021 Published at 18:23 on June 18, 2021

Assigns
Assigns: Params:

Params
Data Files: Object Files:

Files
Stat. Objects: Stat. Metrics:

Statistics
- Objects
- Metrics

To Install
Readme Created at 11:23 on June 16, 2021

To Manage
YAML Created at 13:22 on June 16, 2021
PPAK Uploaded at 13:48 on June 18, 2021

Prepare to Publish

Web ViewPoint Enterprise Version: WVPvABCDvNNO [?]

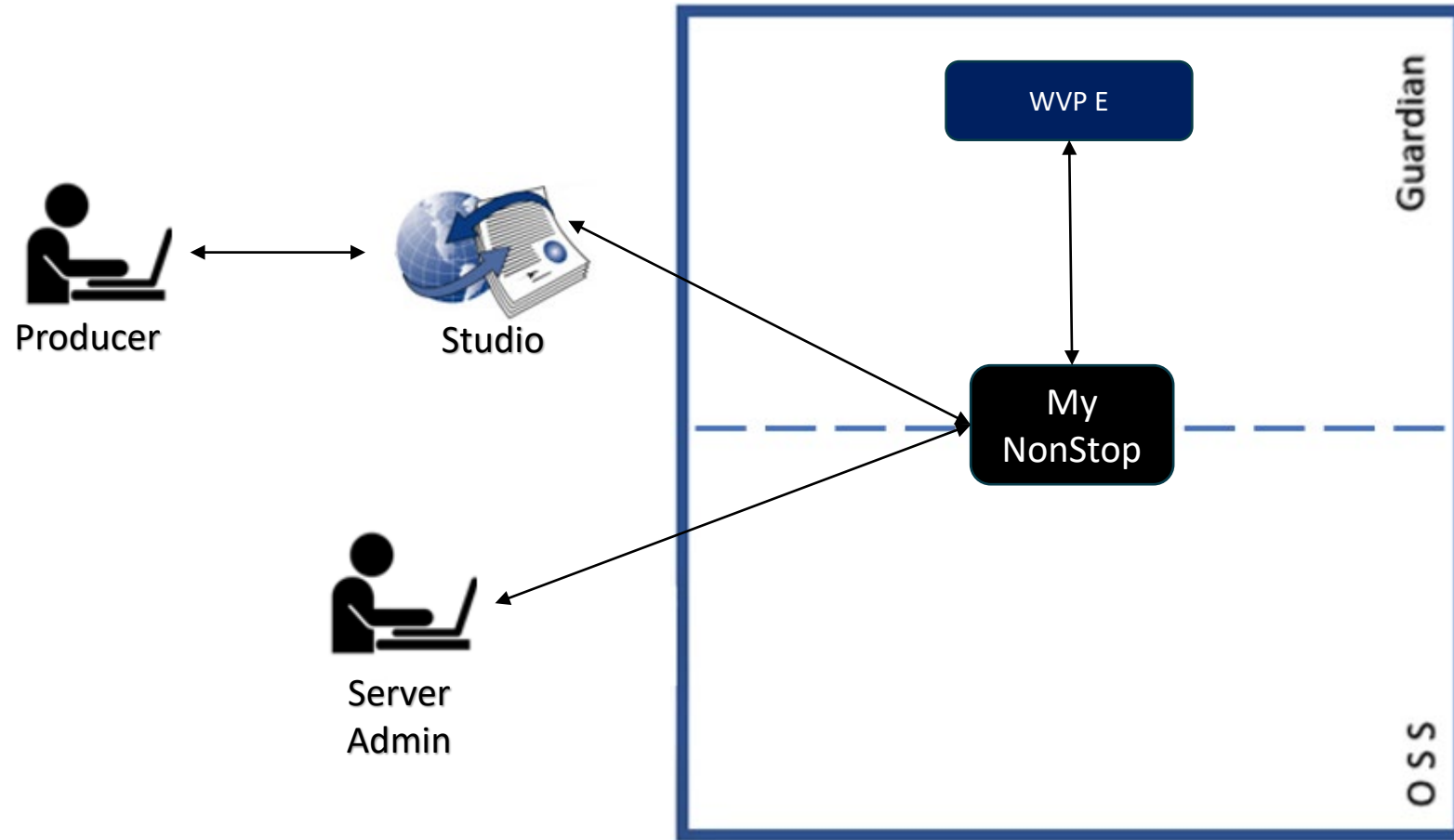
1. Preview Readme 2. Download YAML 3. Upload PPAK

Choose file to upload

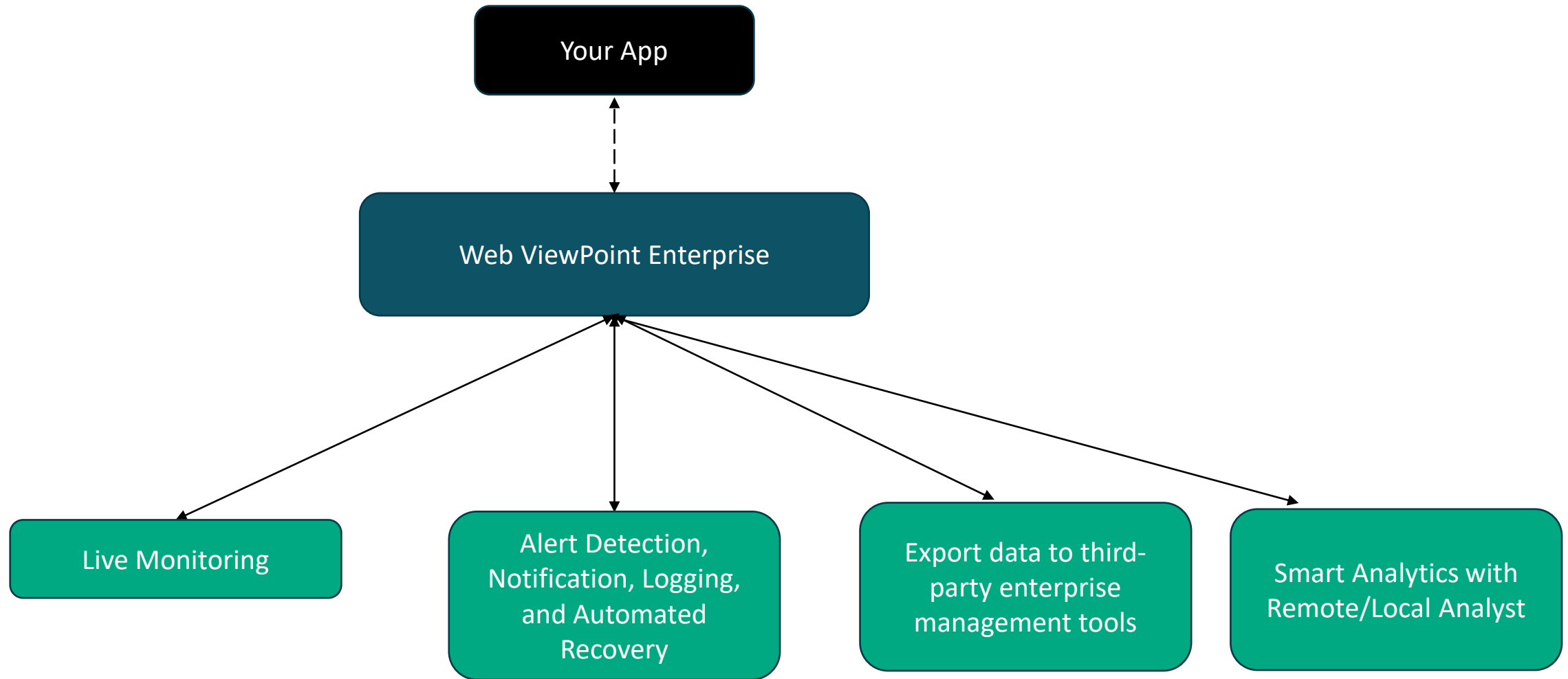
Or drag and drop it here



My NonStop



Bring all features of Web ViewPoint Enterprise to your apps



My NonStop – Shop and Install

The screenshot displays the 'Studio' interface for 'My NonStop'. The main content area features a table of products with the following data:

| Producer | Product | Version | Published On | Install | About |
|----------|--------------------|---------|--------------|---------|-------|
| IDELJI | Spooler Monitor | L02 | 2023-07-21 | Install | About |
| Gravic | Shadowbase Monitor | L02 | 2023-07-21 | Install | About |
| IDELJI | Base24 Monitor | L01AAA | 2023-07-11 | Install | About |
| IDELJI | Connex Monitor | L01AAA | 2023-07-11 | Install | About |

Additional interface elements include a top navigation bar with 'Show Products' (All, Latest Version), a left sidebar with 'Product Status' (Running, Stopped) and 'Server' (\RADVNS1 - 080627), and a right sidebar with utility icons.



My NonStop – Manage Products



Product Status:

Running

Stopped



| Server | Product | Version | | | | |
|-------------------|--------------------------|---------|--|------|--|--|
| \RADVNS1 - 080627 | Web ViewPoint Enterprise | L01AAZ | | Stop | | |
| \IVNS1 - 081686 | Web ViewPoint Enterprise | L01AAZ | | Stop | | |



Automated Management

- Easy install
- Smart upgrade
- Automated onboarding
- Single-click Start/Stop

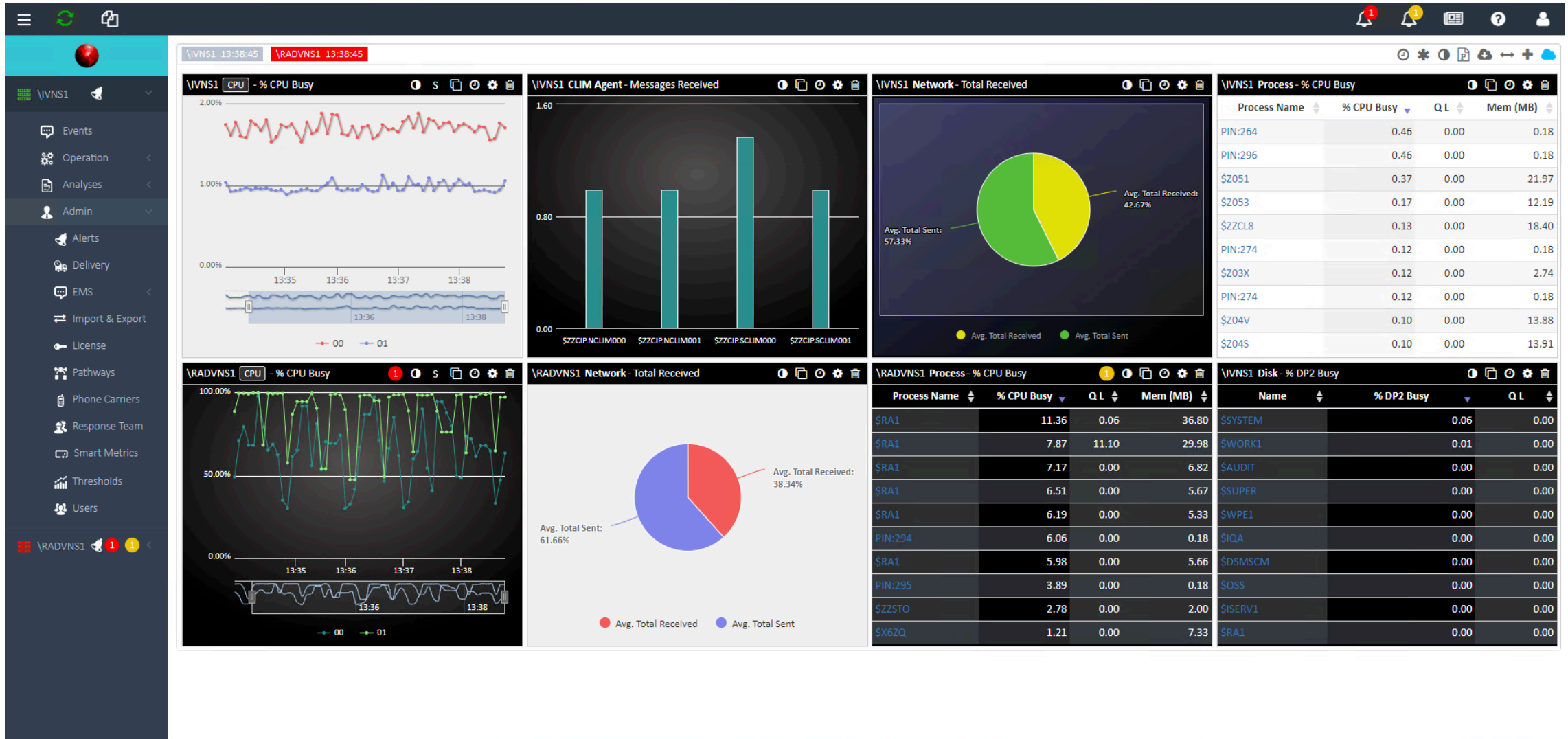


Web ViewPoint Enterprise

- Monitor your System and applications live, at 5-second intervals
- No Client to install. Use modern and secure browsers instead.
- Very low impact on NonStop.
- Point-and-click to define thousands of alert conditions (No scripts). WVP E does the rest.
- Automatically open tickets on Service Now; share data with Splunk, Moog, RA/LA, ...
- Designed and developed for use by hardcore Tandem pros, as well as new grads coming onboard.
- NonStop is no longer an island.



Web ViewPoint Enterprise - Live & Open



Web ViewPoint Enterprise - Live & Open

The screenshot displays the Web ViewPoint Enterprise interface. On the left is a navigation sidebar with categories like Events, Operation, Analyses, Admin, Alerts, Delivery, EMS, Import & Export, License, Pathways, Phone Carriers, Response Team, Smart Metrics, Thresholds, and Users. The main area is titled "\RADVNS1 - Processes with highest % CPU Busy - CPU 01 at 2024/03/22 13:17:55". It features several charts: a line graph for "\VNS1 CPU - % CPU Busy", a bar chart for "\RADVNS1 CPU - % CPU Busy" showing CPU 00 and 01, and a line graph for "\RADVNS1 CPU - % CPU Busy" with a legend for "Avg. Total Received" and "Avg. Total Sent". A table lists processes with their CPU usage, IPUs, priorities, owners, programs, ancestors, queue lengths, and memory used.

| Name | % CPU Busy | IPU | Priority | Owner | Program | Ancestor | Queue Length | Memory Used |
|---------|------------|-----|----------|---------|----------------------------|----------|--------------|-------------|
| \$BHFEX | 16.4 | 0 | 148 | 163,255 | \$WORK2.IMAN0226.ISTREAMF | | 0 | 4.03 |
| \$X8T1 | 3.27 | 0 | 120 | 188,188 | \$ISERV62.WVPEZ121.UMPMEAS | \$KFCMN | 0 | 14.12 |
| \$Y6MX | 2.83 | 0 | 120 | 163,255 | \$ISERV52.WVPAAZEV.UMPMEAS | \$TECMN | 0 | 14.12 |
| \$Y239 | 2.4 | 0 | 120 | 200,22 | \$WORK6.IWVP1010.UMPMEAS | \$MJCMN | 0 | 11.96 |
| \$Z2H3 | 2.38 | 0 | 120 | 200,33 | \$ISERV43.IWVK319.UMPMEAS | \$KBCMN | 0 | 14.12 |

Web ViewPoint Enterprise - Live & Open

\RADVNS1 - Processes with highest % CPU Busy - CPU 01 at 2024/03/22 13:17:55

Process: \RADVNS1.\$X8T1 (PIN:936)
PSTATE

| | |
|-------------------|----------------------------|
| Measured at: | 2024/03/22 13:20:05 |
| CPU:IPU: | 01:00 |
| % Busy: | 2.46 |
| Queue Length: | 0 |
| Memory: | 14.12 |
| Priority: | 120 |
| Owner: | 188,188 |
| Ancestor Process: | \$KFCMN |
| Program: | \$ISERV62.WVPEZ121.UMPMEAS |
| Home Terminal: | \$ZHOME |
| Swap File: | \$ISERV62.#0 |
| Created: | 2024/03/06 11:26:10 |

% CPU Busy
Queue Length

| Name | Device Type | Device Sub-Type | Access | Exclude | Sync Depth |
|-----------------------------------|-------------|-----------------|------------|---------|------------|
| \RADVNS1.\$ISERV62.WVPEZ121.UM... | 3 | 51 | Read/Write | Shared | 0 |
| \RADVNS1.\$ISERV62.WVPEZ121.UM... | 3 | 51 | Read only | Shared | 0 |

Mem (MB)

| |
|-------|
| 0.18 |
| 0.18 |
| 21.97 |
| 12.19 |
| 18.40 |
| 0.18 |
| 2.74 |
| 0.18 |
| 13.88 |
| 13.91 |

| Process Name | Ancestor | Queue Length | Memory Used |
|--------------|----------|--------------|-------------|
| 26.ISTREAMF | | 0 | 4.03 |
| 21.UMPMEAS | \$KFCMN | 0 | 14.12 |
| 20.UMPMEAS | \$TECMN | 0 | 14.12 |
| 10.UMPMEAS | \$MJCMN | 0 | 11.96 |
| 9.UMPMEAS | \$KBCMN | 0 | 14.12 |



Web ViewPoint Enterprise - Live & Open

Process: \RADVNS1.\$X8T1 (PIN:936)
PSTATE

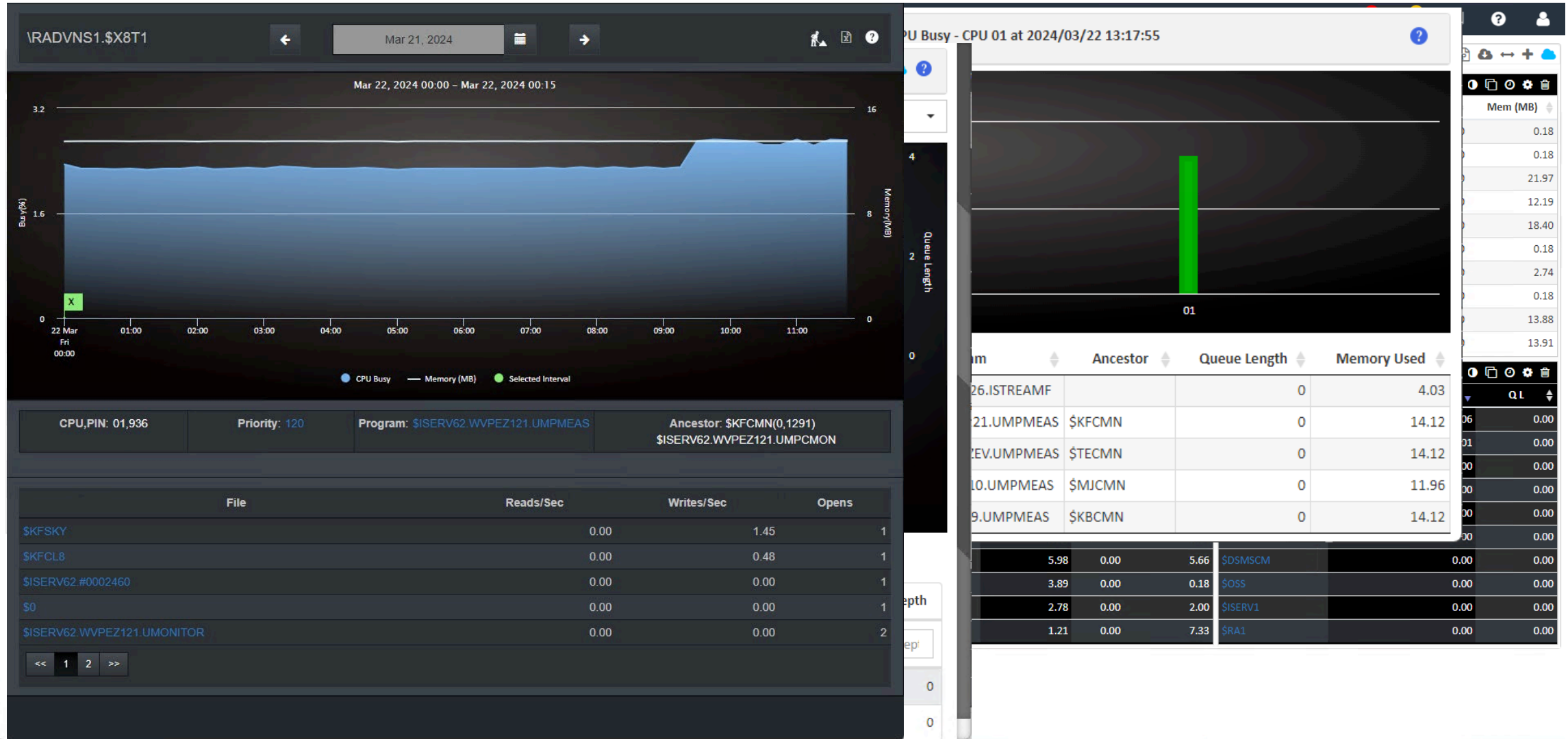
| | |
|-------------------|----------------------------|
| Measured at: | 2024/03/22 13:17:55 |
| CPU:IPU: | 01:00 |
| % Busy: | 2.46 |
| Queue Length: | 0 |
| Memory: | 14.1 |
| Priority: | 120 |
| Owner: | 188 |
| Ancestor Process: | \$KFCMN |
| Program: | \$ISERV62.WVPEZ121.UMPMEAS |
| Home Terminal: | \$ZHOME |
| Swap File: | \$ISERV62.#0 |
| Created: | 2024/03/06 11:26:10 |

Logon to Local Analyst

Email:
 Password:

| Name | Device Type | Device Sub-Type | Access | Exclude | Sync Depth |
|-----------------------------------|-------------|-----------------|------------|---------|------------|
| \RADVNS1.\$ISERV62.WVPEZ121.UM... | 3 | 51 | Read/Write | Shared | 0 |
| \RADVNS1.\$ISERV62.WVPEZ121.UM... | 3 | 51 | Read only | Shared | 0 |

Web ViewPoint Enterprise - Live & Open



Web ViewPoint Enterprise – Dashboard Customizations

The dashboard displays several performance metrics for two devices: \VNS1 and \RADVNS1. The metrics include CPU usage, network traffic, and process activity.

\VNS1 CPU - % CPU Busy

\VNS1 CLIM Agent - Messages Received

\VNS1 Network - Total Received

\RADVNS1 CPU - % CPU Busy

\RADVNS1 Network - Total Received

\RADVNS1 Process - % CPU Busy

\VNS1 Disk - % DP2 Busy

A context menu is open over the dashboard, showing options for profile management:

- No Profile --
- Public Profile
- Save As...
- Configs...

The menu also shows a list of profiles with their memory usage:

| Profile Name | Mem (MB) |
|--------------|----------|
| \VNS1 | 0.18 |
| \RADVNS1 | 0.18 |
| SZ03X | 21.97 |
| PIN:274 | 0.18 |
| SZ04S | 13.91 |
| SZ057 | 4.65 |

Automated Alert & Recovery

The screenshot displays a network management interface with a sidebar on the left and a main content area. The sidebar contains navigation options: \VNS1, \RADVNS1 (with a red notification badge), Events, Operation, Analyses, Admin, Alerts, Delivery, EMS, Import & Export, License, Pathways, Phone Carriers, Response Team, Smart Metrics, Thresholds, and Users. The main content area is titled 'Alerts' and features a table with columns: Name, Group Name, Application, Object, Metric, On, From, To, AutoOp, and By. A red box highlights the 'Group Name' column. The table lists various alerts such as 'Transaction (Long Running)', 'Disk Down', 'Transaction (Hung)', 'Critical EMS', 'Cpu Busy > 80%', 'Cpu Memory Left < 10%', 'Cpu PCB Low Pin > 90%', 'Cpu Down', 'Cpu Queue Length > 9', 'Cpu TLE > 90%', 'DP2 Busy > 50%', 'Disk Queue Length > 25', 'Disk > 80% Full', 'Process Looping', and 'Process Busy > 30%'. Each row includes 'Edit' and 'Delete' buttons. At the bottom right of the table, there is a pagination control showing '« Prev 1 2 Next »'.

| Name | Group Name | Application | Object | Metric | On | From | To | AutoOp | By | |
|----------------------------|----------------------|-------------|---------|---------------|---------|-------|-------|--------|------------|---|
| Transaction (Long Running) | Canned - Transaction | - | TMF | Long Trans. | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Disk Down | Canned - Disk | - | Disk | % Device Busy | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Transaction (Hung) | Canned - Transaction | - | TMF | Hung Trans. | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Critical EMS | Canned - EMS | - | EMS | | -MTWTF- | 09:00 | 17:00 | None | idelqa.mgr | Edit Delete |
| Cpu Busy > 80% | Canned - CPU | - | CPU | % Busy | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Cpu Memory Left < 10% | Canned - CPU | - | CPU | % Memory Left | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Cpu PCB Low Pin > 90% | Canned - CPU | - | CPU | PCB Low PIN | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Cpu Down | Canned - CPU | - | CPU | Down | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Cpu Queue Length > 9 | Canned - CPU | - | CPU | Queue Length | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Cpu TLE > 90% | Canned - CPU | - | CPU | TLE | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| DP2 Busy > 50% | Canned - Disk | - | Disk | % DP2 Busy | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Disk Queue Length > 25 | Canned - Disk | - | Disk | Queue Length | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Disk > 80% Full | Canned - Disk | - | Disk | % Full | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Process Looping | Canned - Process | - | Process | Looping | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |
| Process Busy > 30% | Canned - Process | - | Process | % Busy | SMTWTFS | 00:00 | 23:59 | None | idelqa.mgr | Edit Delete |

Automated Alert & Recovery

Add Alert

Name:

Include in Group: New: Existing:

Status: Scope:

Settings

Source: EMS Server Object: App: Object:

Metric:

Thresholds: Minor > Major > Tolerate for: Second Minute Seconds Minutes Log every breach:

Frequency: Every: Seconds Minutes On: From: To: Contiguous:

Severity: Use Custom

Forward

Take Action

Add Another



Automated Alert & Recovery

Settings

Source: EMS Server Object: CPU App: App Object: Object

Metric:

Thresholds: Minor > 75 Tolerate for: 1 Second Minute Log every breach: Yes
 Major > 90 Tolerate for: 30 Seconds Minutes

Frequency: Every: 15 Seconds Minutes On: SU MO TU WE TH FR SA From: 00:00 To: 23:59 Contiguous: No

Severity: Use Custom High

Forward

Minor To Enterprise Manager Via: SNMP JSON Syslog
 Staff RT - Riya x Via: Email Text
Pass Text: %CPU Busy Minor Alert
Frequency: Once Every 5 Minutes, until resolved Notify upon recovery

Synchronize

Major To Enterprise Manager Via: SNMP JSON Syslog
 Staff RT - Riya x idev.vedant x Via: Email Text
Pass Text: %CPU Busy Major Alert
Frequency: Once Every 5 Minutes, until resolved Notify upon recovery
 Escalate To: idev.vedant x Via: Email Text After 5 Minutes

Submit

Automated Alert & Recovery

Settings

Forward

Minor To

Enterprise Manager

Via: SNMP JSON Syslog

Staff

Via: Email Text

Pass Text:

Frequency: Once

Every Minutes, until resolved

Notify upon recovery

Synchronize

Major To

Enterprise Manager

Via: SNMP JSON Syslog

Staff

Via: Email Text

Pass Text:

Frequency: Once

Every Minutes, until resolved

Escalate To:

Via: Email Text

After Minutes

Take Action

AutoOp

Obey Run TACL

Out:

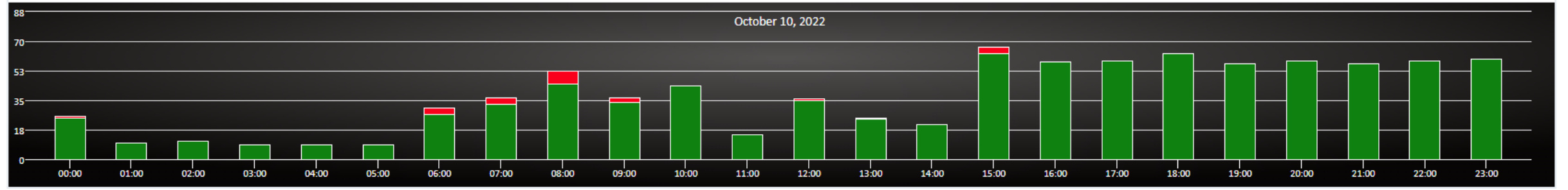
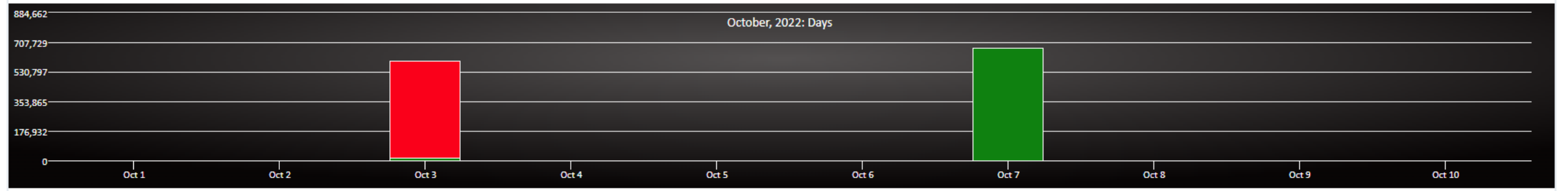
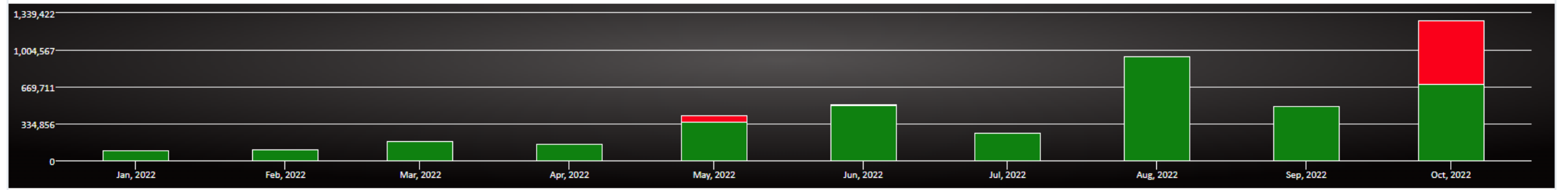
Run as:

Add Another

Escalate To: Via: Email Text After Minutes

Event Analyzer

2022 All GRAVIC 100 Event # D/H

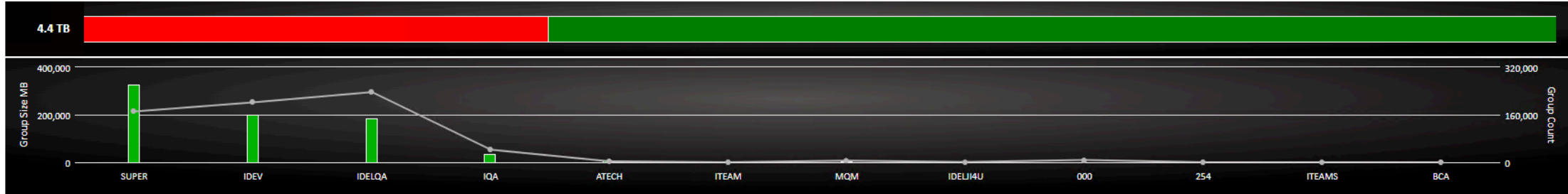


Event Analyzer



Smart Analytics: Storage

← Prev 2024-01-20 Next →



Files

| Volume | Count | > 90% | Full | Corrupt | Licensed | PROGID | Audited | New | New Lic. | New PID | Old | Unused |
|-------------------|----------------|------------|------------|----------|------------|------------|--------------|-----------|----------|----------|----------------|----------------|
| \$ISERV42 | 9,611 | 100 | 2 | 0 | 0 | 121 | 130 | 1 | 0 | 0 | 8,461 | 1,149 |
| \$ISERV52 | 9,307 | 80 | 32 | 0 | 0 | 4 | 91 | 17 | 0 | 0 | 8,722 | 556 |
| \$DSMSCM | 7,359 | 1 | 0 | 0 | 2 | 4 | 431 | 17 | 0 | 0 | 7,300 | 39 |
| \$AUDIT | 6,733 | 199 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,733 | 0 |
| Total (41) | 668,269 | 893 | 390 | 2 | 210 | 192 | 1,385 | 89 | 0 | 2 | 195,629 | 472,449 |

Disks

| Disk | Size GB | % Used | Delta MB | New MB | Days to 90% | Days to 100% |
|-------------------|----------------|--------|------------|------------|-------------|--------------|
| \$SYSTEM | 300 | 64% | 1.7 | 0 | 43,331 | 60,576 |
| \$WORK1 | 99 | 70% | 26.2 | 0 | 722 | 1,099 |
| Total (41) | 4,459.9 | | N/A | 0.5 | N/A | N/A |



Smart Analytics: Storage

← Prev 2024-01-20 Next →

Subvolumes of \$AUDIT with files of all users



← Prev 2024-01-20 Next →

| Sub Volume ↕ | Count ↕ | Size MB ↕ | New Files ↕ | New Size MB ↕ |
|-------------------|--------------|------------------|-------------|---------------|
| INSTALL | 45 | 22,927.6 | 0 | 0.0 |
| L190300 | 14 | 23,876.0 | 0 | 0.0 |
| L200500 | 13 | 22,881.6 | 0 | 0.0 |
| SAFE | 2 | 0.0 | 0 | 0.0 |
| SPLM | 2 | 59.5 | 0 | 0.0 |
| ZIPSBACK | 10 | 6.9 | 0 | 0.0 |
| ZPHI0001 | 5 | 0.6 | 0 | 0.0 |
| ZPHI0003 | 5,035 | 21,889.2 | 0 | 0.0 |
| ZPHI0005 | 2 | 0.0 | 0 | 0.0 |
| Total (17) | 6,733 | 108,766.5 | 0 | 0.0 |



Smart Analytics: Storage

| Current files in \$AUDIT.L190300 of all users | | | | | | |
|---|------|------|---------|-------------|------|---------------------|
| Name | Type | Code | Size MB | Owner | RWEP | Modified |
| DUPTTEST | U | 0 | 1,863.5 | IDELQA.MGR | ---- | 2022-07-08 11:27:58 |
| DVDLIST | U | 101 | 0.3 | SUPER.SUPER | AAAA | 2020-04-07 03:01:24 |
| L903000 | | 999 | 1,863.5 | SUPER.SUPER | AAAA | 2020-03-30 02:57:44 |
| L903000 | | 999 | 1,863.5 | SUPER.SUPER | AAAA | 2020-03-30 03:00:54 |
| L903000 | | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:04:06 |
| L903000 | | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:07:16 |
| L903000 | | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:10:27 |
| L903000 | | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:13:40 |
| L9030007 | U | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:16:52 |
| L9030008 | U | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:20:03 |
| L9030009 | U | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:23:14 |
| L903000A | U | 999 | 1,863.5 | SUPER.SUPER | AAAA | 2020-03-30 03:26:25 |
| L903000B | U | 999 | 1,863.4 | SUPER.SUPER | AAAA | 2020-03-30 03:29:38 |
| L903000C | U | 999 | 408.2 | SUPER.SUPER | AAAA | 2020-03-30 03:30:22 |

- Properties
- Duplicate
- Move
- Rename
- Alter
- Delete

Monitoring Events

Source / Time

Collectors: \RADVNS1-\$0 x \IVNS1-\$0 x \IVNS1-\$ZCLA x \IVNS1-\$ZLOG x \RADVNS1-\$UMP x x v

Log File:

From: NOW Start from: 3 Hours ago

Filter

File: Node Volume Subvolume File Pass: NO Filter File List 0 Use for all nodes

Event: Node Owner Subsystem Event # +One Node +All Nodes Owner Subsystem List 0

Only: CPU Group.User / Alias PIN Process Exclude: NO

String: String Regular Expression: NO Case Sensitive: NO

Type: Critical Action Others

Acked By: Group.User/Alias Reset

Display

Reset Profiles ... Submit

Monitoring Events

The image displays a configuration interface for monitoring events, presented as a stack of three overlapping panels. The top panel is partially obscured by the middle one, and the bottom one is mostly hidden. The middle panel is the primary focus, showing the following settings:

- Source / Time:** A blue header bar with a calendar icon and a dropdown arrow.
- Filter:** A blue header bar with a funnel icon and a dropdown arrow.
- Display:** A blue header bar with a monitor icon and a dropdown arrow. Below it are several settings:
 - Skin:** A dropdown menu set to "Default x".
 - Template:** A dropdown menu set to "Default x".
 - Show Date:** A toggle switch set to "YES" (green).
 - Show Collector:** A toggle switch set to "NO" (red).
 - Truncate Text:** A toggle switch set to "NO" (red).
 - Suppress Burst:** A toggle switch set to "NO" (red).
 - Desktop Notifications:** A toggle switch set to "OFF" (red).

At the bottom of the middle panel, there is a yellow "Reset" button. The bottom-most panel shows a yellow "Reset" button, a blue "Profiles ..." button, and a blue "Submit" button.

Monitoring Events

2
96

→
⏪
⏩
⚙️
📄
🗑️
🔍
?

| <input type="checkbox"/> | Time | Process ID | Subsystem ID | Event # | Text |
|-------------------------------------|-----------------------------------|---|---|--------------------------------------|--|
| | <input type="text" value="Time"/> | <input type="text" value="Process ID"/> | <input type="text" value="Subsystem ID"/> | <input type="text" value="Event #"/> | <input type="text" value="Text"/> |
| <input checked="" type="checkbox"/> | 2021/11/03 01:32:33 | \NSCLOUD.\$PWSKY | TANDEM.1500.H01 | 001016 | Repeat notification, SubscriptionId: 212491663865096858, Breach: Minor, Name: wvp1658, Entity: PROGRAM, M \$IDEL23.WVPEAAO.UMPMEASH, Expected: > 1, Actual: 0,, Tolerance: 0 M |
| <input checked="" type="checkbox"/> | 2021/11/03 01:32:33 | \NSCLOUD.\$PWDRN | TANDEM.1500.H01 | 000143 | Unable to forward alert to Enterprise Manager. |
| <input checked="" type="checkbox"/> | 2021/11/03 01:33:31 | \NSCLOUD.\$Y15D | TANDEM.257.0 | 000527 | SAPROC <main> Completion of daily collector run, Proc 1 in seconds 5662 |
| <input checked="" type="checkbox"/> | 2021/11/03 01:34:35 | \NSCLOUD.\$XWSKY | TANDEM.1500.H01 | 001016 | Repeat notification, SubscriptionId: 212491663865096858, Breach: Minor, Name: wvp1658, Entity: PROGRAM, M \$IDEL23.WVPEAAO.UMPMEASH, Expected: > 1, Actual: 0,, Tolerance: 0 M |
| <input checked="" type="checkbox"/> | 2021/11/03 01:34:35 | \NSCLOUD.\$XWDRN | TANDEM.1500.H01 | 000143 | Unable to forward alert to Enterprise Manager. |
| <input checked="" type="checkbox"/> | 2021/11/03 01:37:34 | \NSCLOUD.\$PWSKY | TANDEM.1500.H01 | 001016 | Repeat notification, SubscriptionId: 212491663865096858, Breach: Minor, Name: wvp1658, Entity: PROGRAM, M \$IDEL23.WVPEAAO.UMPMEASH, Expected: > 1, Actual: 0,, Tolerance: 0 M |
| <input checked="" type="checkbox"/> | 2021/11/03 01:37:34 | \NSCLOUD.\$PWDRN | TANDEM.1500.H01 | 000143 | Unable to forward alert to Enterprise Manager. |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD.\$Z06D | TANDEM.TMF.G10 | 000201 | NonStop TMF on \NSCLOUD *0201* AuditDump Process #0 AuditTrailMgmt: Action completion event for TMF *C |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD.\$Z06D | *TANDEM.TMF.G10 | 000200 | NonStop TMF on \NSCLOUD *0200* AuditDump Process #0 AuditTrailMgmt: Out of scratch tapes in the TMF cata |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD.\$PWDRN | TANDEM.1500.H01 | 001007 | Alarm sent via Text, SubscriptionId: 212499171002236146, Subject: \NSCLOUD - EMS on Collector \$0, Text: WVP Time: 01:39:28 EMS Event: TANDEM.TMF.201 Action Process: \NSCLOUD.\$Z06D Text: NonStop TMF on \NSCLOUD Action completion event for TMF *0200*. Addl. Info: test for sms api new code , SentTo: 43534534534, Breach: N N/A |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD.\$PWDRN | TANDEM.1500.H01 | 001004 | Alarm sent to Enterprise SNMP, SubscriptionId: 212499171002236146, Breach: Major, Name: test, Entity: EMS, M |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD.\$PWDRN | TANDEM.1500.H01 | 001007 | Alarm sent via Text, SubscriptionId: 212499171002236146, Subject: \NSCLOUD - EMS on Collector \$0, Text: WVP Time: 01:39:28 EMS Event: TANDEM.TMF.200 Critical Process: \NSCLOUD.\$Z06D Text: NonStop TMF on \NSCLOUD |

Monitoring Events

The screenshot displays a monitoring application interface. On the left, there is a sidebar with navigation options: 'Source / T...', 'Filter', 'Display', 'Skin:', 'Template:', 'Suppress', and 'Desktop Notificati'. A 'Reset' button is located at the bottom of the sidebar. The main area shows a table of events with columns for 'Time' and 'Process ID'. A modal window titled 'Token Dump Information' is open, displaying details for a specific event.

| <input type="checkbox"/> | Time | Process ID |
|-------------------------------------|---------------------|------------|
| <input type="checkbox"/> | Time | Process ID |
| <input checked="" type="checkbox"/> | 2021/11/03 01:32:33 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:32:33 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:33:31 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:34:35 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:34:35 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:37:34 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:37:34 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD |
| <input checked="" type="checkbox"/> | 2021/11/03 01:39:28 | \NSCLOUD |

Token Dump Information

Time: 2021/11/03 01:39:28
 Process ID: \NSCLOUD.\$Z06D
 Subsystem ID: TANDEM.TMF.G10
 Event #: 000201

Comment:

Acknowledge

Cause/Effect/Recovery Information from EVENTTX

201

Action completion event for TMF *0200*.

Cause Scratch tapes have been added to, or made available within, the TMF catalog.

Effect None

Recovery Informational message only; no corrective action is

Token Dump

Header_type: 1
 Checksum: F
 Last_error: no_error (0)
 Last_error_tknocode: (0,0,0)
 Max_field_version: 0
 SSID: TANDEM.TMF.G10
 Used_byte_length: 172
 Buffer_byte_length: 172
 Console-Print: F
 Generating-CPU: 0

And much more...

The screenshot displays a storage management interface. On the left is a navigation sidebar with options like Events, Operation, Pathways, Spooler, Storage, Guardian, OSS, Analyses, and Admin. The main area shows a list of subvolumes with their usage percentages. The \$IDEV1 subvolume is selected, showing 18% usage. To the right, a detailed view of the \$IDEV1 subvolume is shown, including a table of files and a context menu for the FLIC file.

Subvolumes List:

| Subvolume | Usage |
|----------------|------------|
| \$ATECH1 | 0% |
| \$ATECH2 | 0% |
| \$AUDIT | 84% |
| \$DATA6 | 2% |
| \$DSMSCM | 88% |
| \$IDEV1 | 18% |
| \$IDEV2 | 11% |
| \$IDEV3 | 6% |
| \$IDEV4 | 4% |
| \$IQA1 | 21% |
| \$IQA2 | 49% |
| \$IQA3 | 25% |
| \$IQA4 | 18% |
| \$ISERV11 | 8% |
| \$ISERV12 | 16% |
| \$ISERV13 | 5% |
| \$ISERV31 | 3% |

Subvolume Details: \RADVNS1.\$IDEV1 Subvolume : SA231130 Files : 17 Total : 92.55 MB 18%

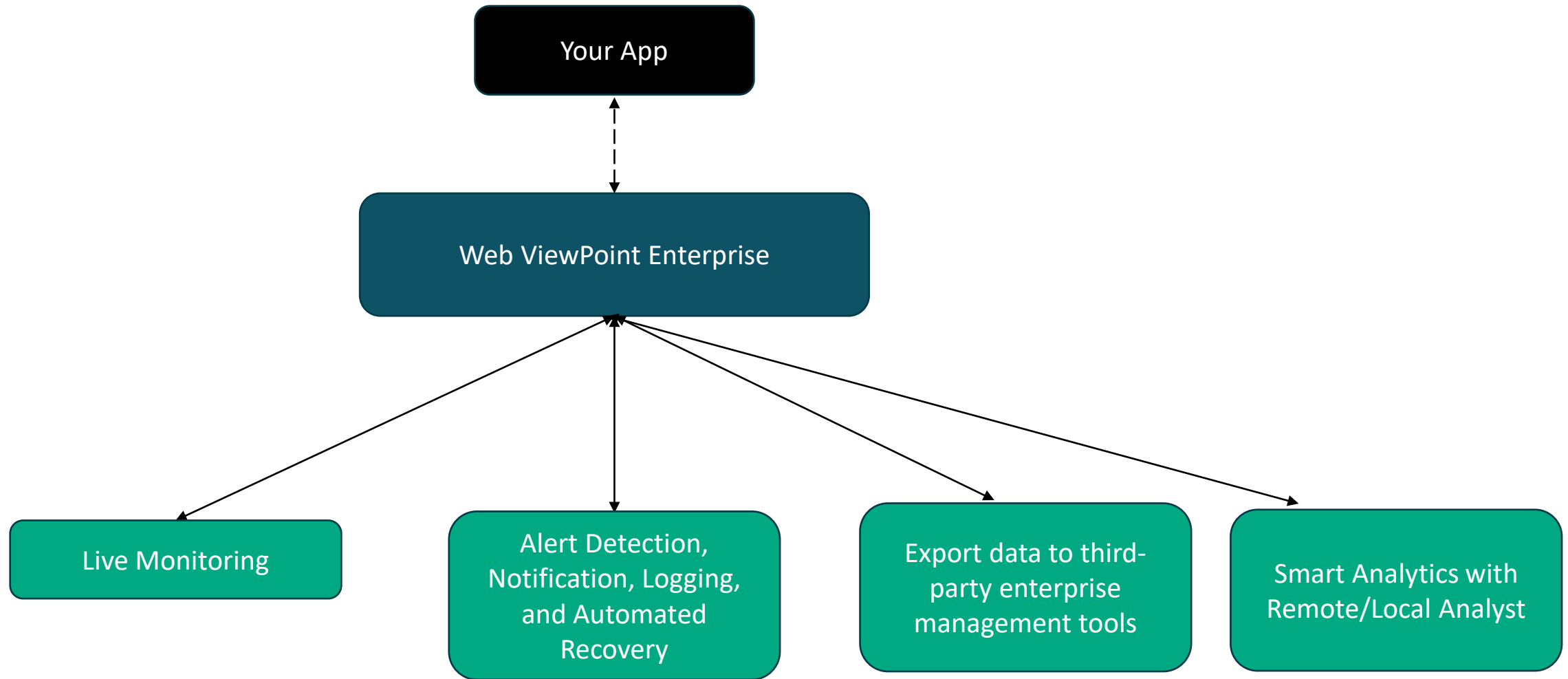
| Name | Type | Code | Size MB | Owner | RWEP | Modified |
|---------|------|------|---------|-------------|------|---------------------|
| F100 | K | 0 | 0.09 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| F90 | K | 0 | 0.16 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FAGEOLD | K | 0 + | 24.96 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FCRPT | K | 0 | 0.01 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FDEALOC | K | 0 | 0.19 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FLIC | | 0 | 0.04 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FLICN | | 0 | 0.01 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FNEW | | 0 | 0.02 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FPART | | 0 | 0.00 | SUPER.SUPER | NNUU | 2023-11-30 00:05:25 |
| FPARTS | | 0 | 0.00 | SUPER.SUPER | NNUU | 2023-11-30 00:05:25 |
| FPID | K | 0 | 0.04 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FPIDN | K | 0 | 0.01 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FRELOAD | K | 0 | 7.20 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FTMF | K | 0 + | 0.23 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |
| FUNUSED | K | 0 + | 58.32 | SUPER.SUPER | NNUU | 2023-11-30 00:19:11 |

Context Menu for FLIC:

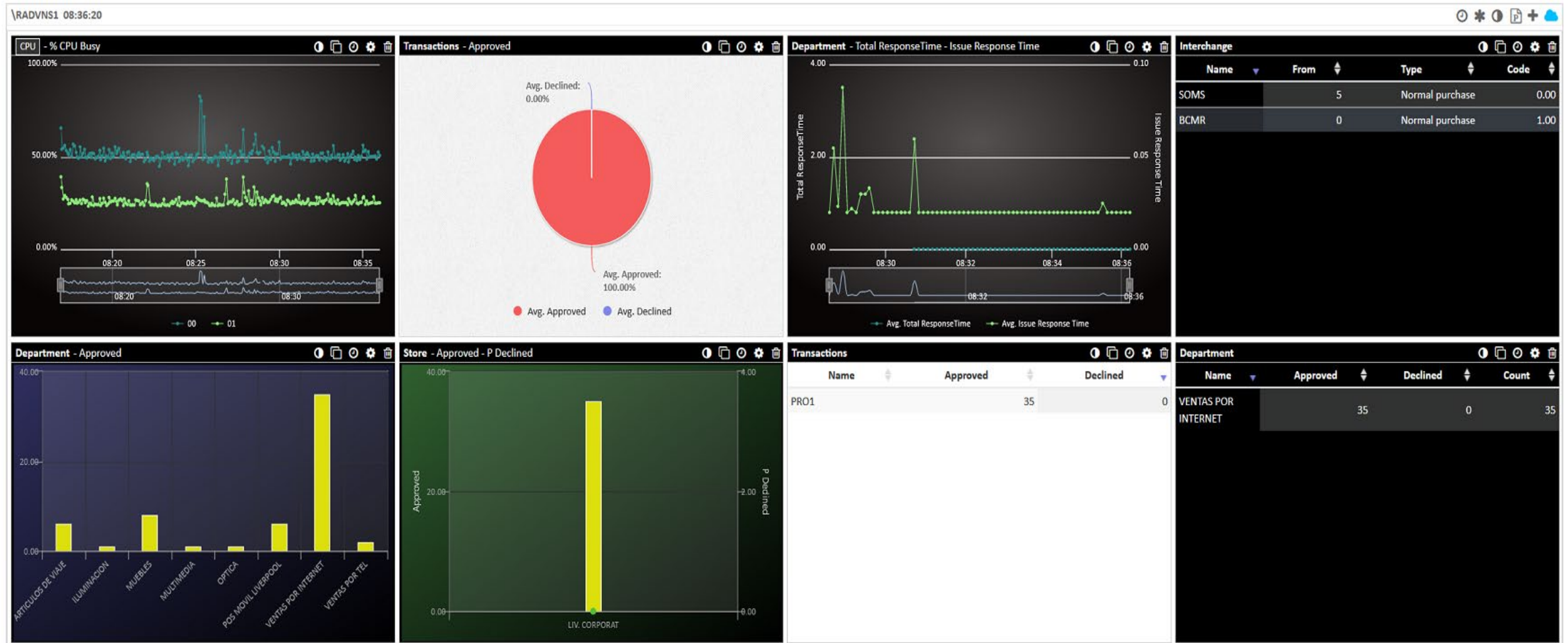
- Properties
- Rename ...
- Alter ...
- Delete
- Duplicate ...
- Move



Bring all features of Web ViewPoint Enterprise to your apps



One Pane: Base24 Monitor on WVP E Dashboard



One Pane: Base24 Monitor on WVP E Dashboard



Display your Base24 Monitor Metrics on WVP E Dashboard

New Frame Settings ? X

SERVER OBJECTS **APPS**

App Base24 Monitor ▼

Object Transactions ▼

Metric Approved ▼

Display Type

LINE BAR
PIE TABLE

Extra Metric 1 Declined ▼ X

+ ADD METRIC

Add

New Frame Settings ? X

SERVER OBJECTS **APPS**

App Base24 Monitor ▼

Object Transactions ▼

Display Type

LINE BAR
PIE TABLE

View Approval ▼

Approval
Times

Add



Set up Alerts and Automate Recovery for Shadowbase using WVP E

Frequency: Every: Seconds Minutes On: From: To: Contiguous: No

Severity: Use Custom

Forward

Minor To Enterprise Manager Via:
 Staff Via:
Pass Text:
 Once
Frequency: Every Minutes, until resolved Notify upon recovery

Synchronize

Major To Enterprise Manager Via:
 Staff Via:
Pass Text:
 Once
Frequency: Every Minutes, until resolved Notify upon recovery

Escalate To: Via: After Minutes

Take Action

Obey
 Run TACL Out:
Pass Text:

Run as

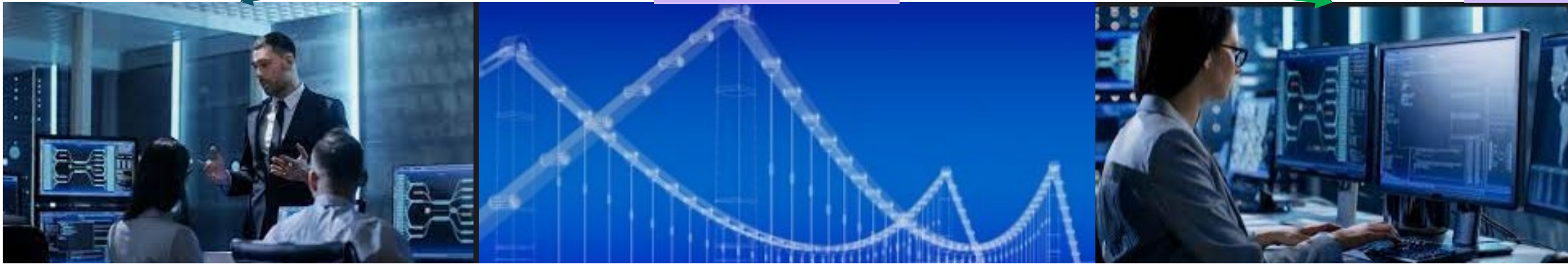
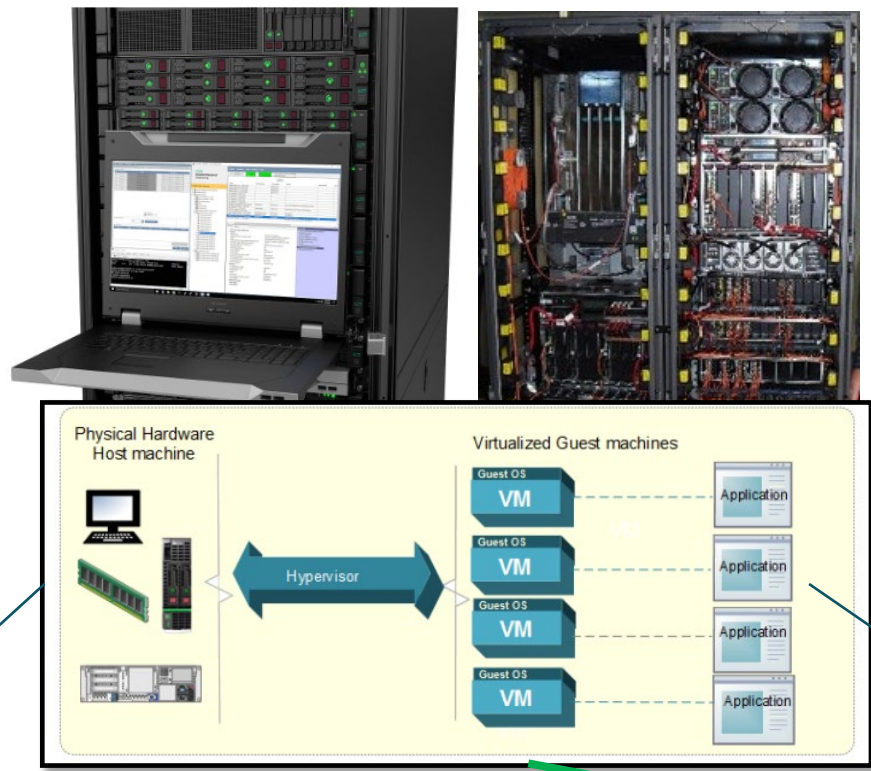


Coming Soon...

- Lusic Payments Monitor Plug-In for Web ViewPoint Enterprise
- MQ Monitor – WVPE Plug-in for IBM MQ monitoring, alerting, and AutoOps
- VMBridge – Bridge between VMware and NonStop Guardian on VNS



VMBridge – Seamlessly navigate VNS and VMware



VMBridge – Seamlessly navigate VNS and VMware

Web ViewPoint Enterprise | <https://10.26.97.22:3809/#/index>

\RADVNS1 12:08:50

| VM | | | | | | | |
|-------------------------|--------|------------|-----------|-----------|----------|--------|--|
| Name | Busy | Contention | Disparity | Disk Used | Mem Used | Health | |
| LoadDetectS-paulusz-443 | 145.00 | 0.00 | 0.00 | 185.00 | 99.00 | 25 | |
| IVNS1_NCLIM001 | 99.00 | 0.00 | 1.00 | 15.00 | 100.00 | 100 | |
| IVNS1_NCLIM000 | 99.00 | 0.00 | 1.00 | 20.00 | 100.00 | 100 | |
| IVNS1_SCLIM000 | 99.00 | 0.00 | 0.00 | 1099.00 | 100.00 | 100 | |
| IVNS1_SCLIM001 | 99.00 | 0.00 | 0.00 | 1088.00 | 100.00 | 100 | |
| IVNS1_CPU01 | 99.00 | 0.00 | 0.00 | 0.00 | 100.00 | 25 | |
| IVNS1_CPU00 | 99.00 | 0.00 | 0.00 | 0.00 | 100.00 | 25 | |
| LoadDetectP-paulusz-441 | 51.00 | 5.00 | 0.00 | 53.00 | 99.00 | 100 | |
| iMind-paulusz-445 | 30.00 | 3.00 | 0.00 | 55.00 | 99.00 | 100 | |

| Host | | | | | |
|------------------------------|-------|------------|-----------|----------|--------|
| Name | Busy | Contention | Disk Used | Mem Used | Health |
| esxi03.imanaige.idelji.local | 11.00 | 3.00 | 850.00 | 0.00 | 100 |
| esxi02.imanaige.idelji.local | 10.00 | 1.00 | 636.00 | 0.00 | 100 |
| esxi01.imanaige.idelji.local | 12.00 | 0.00 | 663.00 | 0.00 | 100 |
| 192.168.1.127 | 54.00 | 0.00 | 3095.00 | 0.00 | 100 |
| 192.168.1.115 | 54.00 | 0.00 | 2038.00 | 0.00 | 100 |
| 192.168.1.114 | 34.00 | 1.00 | 10969.00 | 0.00 | 25 |

CPU - % CPU Busy

Legend: 00 (blue), 01 (green)

- ESXi Host
- Virtual NonStop (vNS)
- VMs

Remote/Local Analyst

- Off platform analytics on Systems and Applications
- Detecting and reporting anomalies
- Deep Analytics
- Client-less secure interface
- Management & Technical reports
- Forecasting and recommendations



Public or Private. Your Choice.

Remote Analyst

Public Cloud on AWS

- Secure interface
- No management needed
- Very high availability
- No Software installation



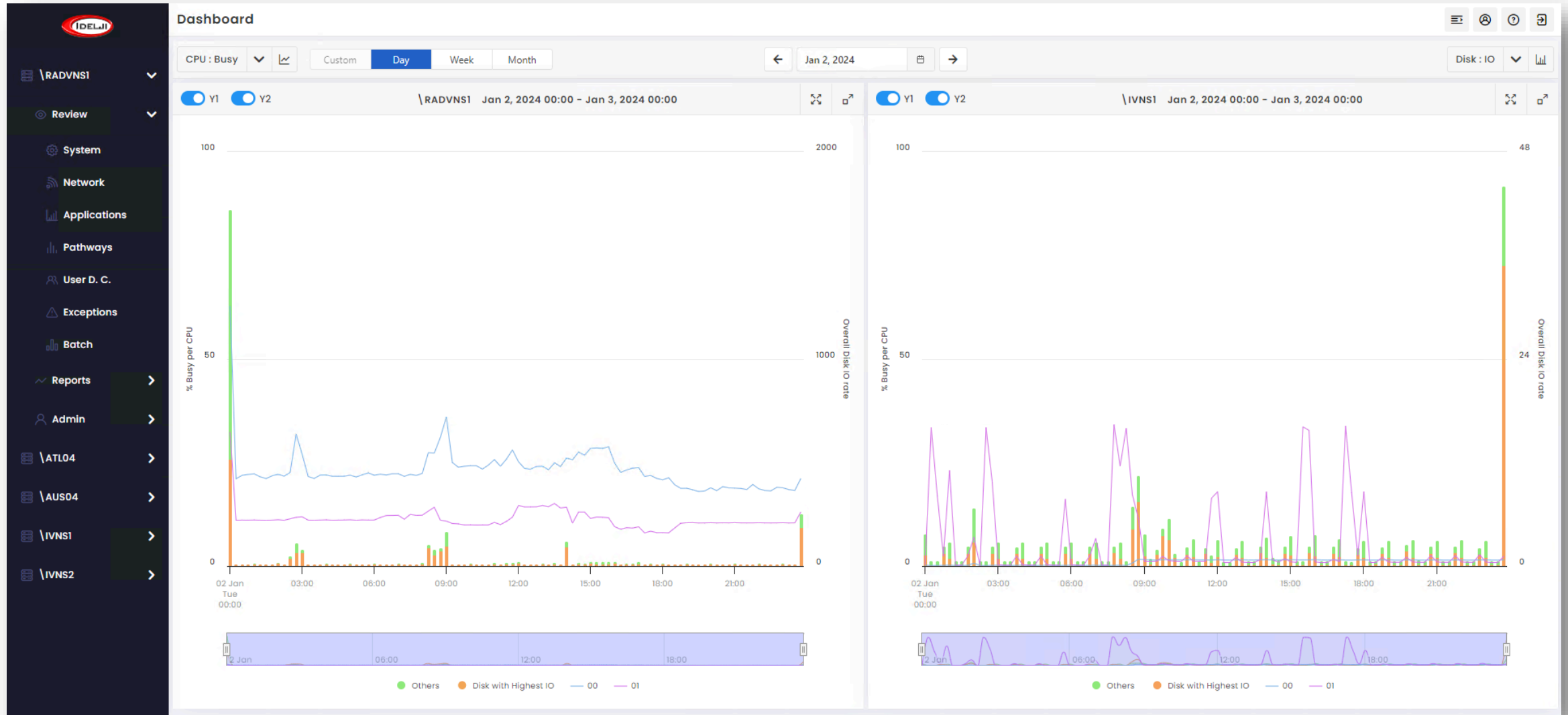
Local Analyst

Your Private Cloud

- Within your private network
- All data stays in-house
- Manage your own requirements
- Install updates as needed



Novice and Experts Alike



Know Computers? You are good to go

\RADVNS1.\$RECEIVE

From : Mar 23, 2024 08:45
 To : Mar 23, 2024 09:00

Reads : 21766.94/sec
 Writes : 400.22/sec
 Time/IO : 0.01/milliseconds
 Lock Wait : 0
 Rec. Accessed : 0
 Rec. Used : 0
 Openers : 0
 Opens : 1429

| Process Tl | Program Tl | CPU Tl | PIN Tl | Reads/Sec Tl | Writes/Sec Tl | Total Reads Tl | Total Writes Tl | Opens Tl | Lock Wait Tl |
|------------|-------------------------|--------|--------|--------------|---------------|----------------|-----------------|----------|--------------|
| \$Z000 | \$SYSTEM.SYS00.TZSTOSRV | 00 | 380 | 112.25 | 112.25 | 101025 | 101025 | 1 | 0 |
| \$ZNET | \$SYSTEM.SYS00.SCP | 00 | 16 | 105.21 | 105.21 | 94687 | 94688 | 1 | 0 |
| \$ZZSTO | \$SYSTEM.SYS00.TZSTO | 00 | 378 | 57.48 | 57.48 | 51730 | 51730 | 1 | 0 |
| \$Y5LC | \$SYSTEM.SYS00.MEASFH | 00 | 1336 | 50.56 | 50.55 | 45500 | 45499 | 1 | 0 |
| \$ZZCIP | \$SYSTEM.SYS00.CIPMAN | 00 | 461 | 46.05 | 46.05 | 41445 | 41445 | 1 | 0 |
| \$Z6Y4 | \$RA1.LACICD.UMPGATE | 01 | 880 | 90.33 | 0 | 81300 | 0 | 1 | 0 |
| \$Z7AJ | \$IQA2.PZCICD.UMPGATE | 01 | 1097 | 90.33 | 0 | 81295 | 0 | 1 | 0 |
| \$Z6VQ | \$RA1.LAPROD.UMPGATE | 01 | 1201 | 90.32 | 0 | 81291 | 0 | 1 | 0 |

Know Computers? You are good to go

- Home
- \RADVNS1
- Review
- System
- Network
- Applications
- Pathways
- User D. C.
- Exceptions
- Batch
- Reports
- Admin
- \IVNS2
- \IVNS1

\RADVNS1.\$RECEIVE

From : Mar 23, 2024 08:45

To : Mar 23, 2024 09:00

Reads : 21766.94/sec

Writes : 400.22/sec

Time/IO : 0.01/milliseconds

Lock Wait : 0

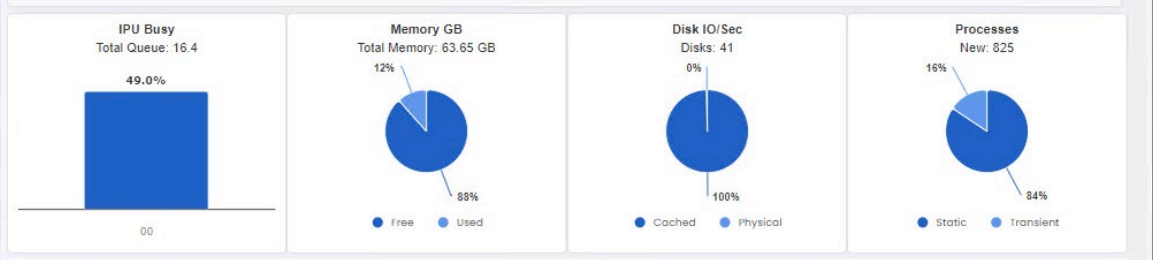
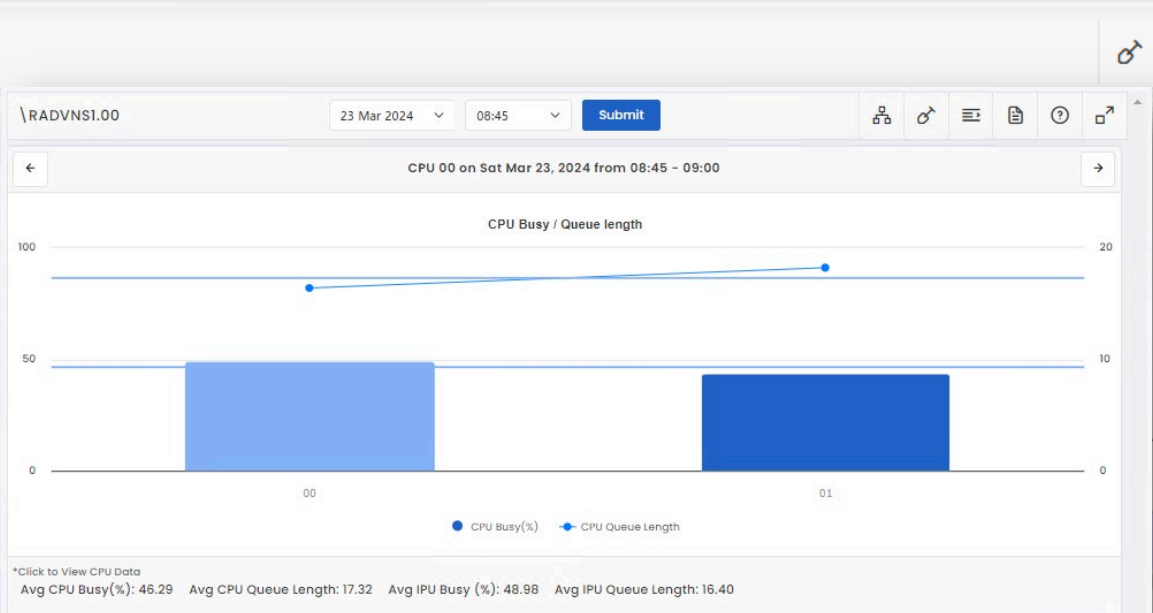
Rec. Accessed : 0

Rec. Used : 0

Openers : 0

Opens : 1429

| Process Tl | Program Tl |
|------------|---------------------------|
| \$Z000 | \$\$SYSTEM.SYS00.TZSTOSRV |
| \$ZNET | \$\$SYSTEM.SYS00.SCP |
| \$ZZSTO | \$\$SYSTEM.SYS00.TZSTO |
| \$Y5LC | \$\$SYSTEM.SYS00.MEASFH |
| \$ZZCIP | \$\$SYSTEM.SYS00.CIPMAN |
| \$Z6Y4 | \$RA1.LACICD.UMPGATE |
| \$Z7AJ | \$IQA2.PZCICD.UMPGATE |
| \$Z6VQ | \$RA1.LAPROD.UMPGATE |



Process Count: 1118 CPU: 00 Busy: 48.98%

| Process Tl | Busy% Tl | Mem(MB) Tl | Program Tl | Priority Tl | S/T Tl | Duration Tl | Owner Tl | From Tl | To Tl |
|------------|----------|------------|---------------------------|-------------|--------|-------------|----------|----------|----------|
| Process | Busy | Mem(MB) | Program | Priority | S/T | Duration | Owner | From | To |
| \$MONITOR | 9.70 | 7.86 | \$\$SYSTEM.SYS00.NMONITOR | 201 | S | 14:59 | 255,255 | - | - |
| \$8HFEX | 6.72 | 3.95 | \$WORK2.IMANQ226.ISTREAMF | 148 | S | 14:59 | 163,255 | - | - |
| \$Y5LC | 3.52 | 79.25 | \$\$SYSTEM.SYS00.MEASFH | 80 | T | 01:32 | 255,255 | 08:53:23 | 08:54:55 |
| N/A | 3.46 | 0.17 | \$\$SYSTEM.SYS00.TSMSGIP | 255 | S | 14:59 | 255,255 | - | - |
| \$ZZSTO | 2.66 | 1.91 | \$\$SYSTEM.SYS00.TZSTO | 180 | S | 14:59 | 255,255 | - | - |
| \$Y5L6 | 1.35 | 36.91 | \$\$SYSTEM.SYS00.MEASFH | 80 | T | 00:51 | 255,255 | 08:52:32 | 08:53:23 |

Disk : IO

Opens

Overall Disk IO rate

Lock Wait Tl

Lock Wait Tl



Know Computers? You are good to go

\RADVNS1.\$RECEIVE

For the Time Period

00:00 08:00 09:00 23:59

Generate these analyses

Reports (6)

Select:

- Busiest Disk Files Logical I/Os per Second, by Volume (R02)
- Busiest Disk Files Physical I/Os/sec by Volume (R08)
- Disk File Analysis (R17)
- Disk File I/O Activity Distribution (R18)
- Disk I/O Heavy Hitters (R19)
- Logical File Open(er)s (R24)

Charts (5)

Select:

- Disk File 'Requests Blocked' Shares (C13)
- Disk File Block Split Shares (C14)
- Disk File Overview (Alphabetic) Table (C15)
- Disk File Overview (Opens) Table (C54)
- Disk File Overview (Partitions) (C55)

And email them to

Processes
New: 825

| | |
|-----------|-----|
| Static | 16% |
| Transient | 84% |

Busy: 48.98%

| From T1 | To T1 |
|----------|----------|
| From | To |
| - | - |
| 08:53:23 | 08:54:55 |
| - | - |
| - | - |
| 08:52:32 | 08:53:23 |

Lock Wait T1

Disk : IO

Opens

Overall Disk IO rate

Report Scheduling

Add Schedules ?

Type :

Frequency :

Send on :

Report for the last : from to

Email :

| | | | |
|------------------------------|-----------------------------------|---------------------------------------|--------------------------------|
| Maximum Process Busy: | <input type="text" value="60"/> | Maximum Total Transient Transactions: | <input type="text" value="3"/> |
| Disk Queue Length >= | <input type="text" value="1.00"/> | Disk File Requests Blocked >= | <input type="text" value="1"/> |
| Disk File Transient Opens >= | <input type="text" value="5"/> | | |

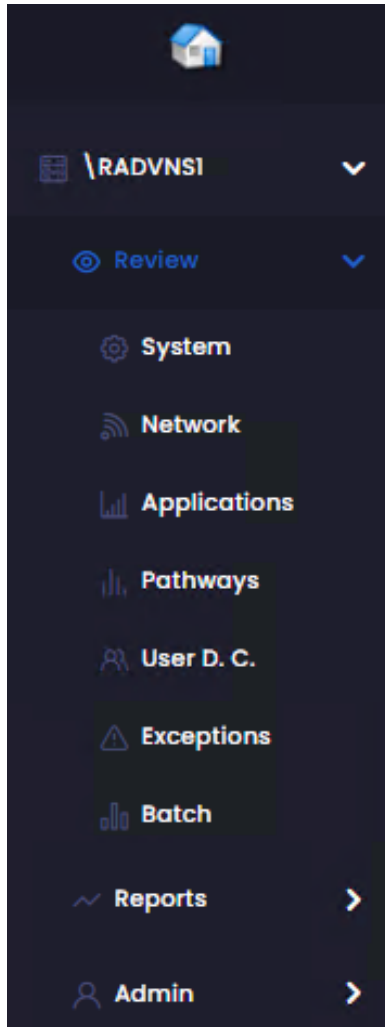


SLA

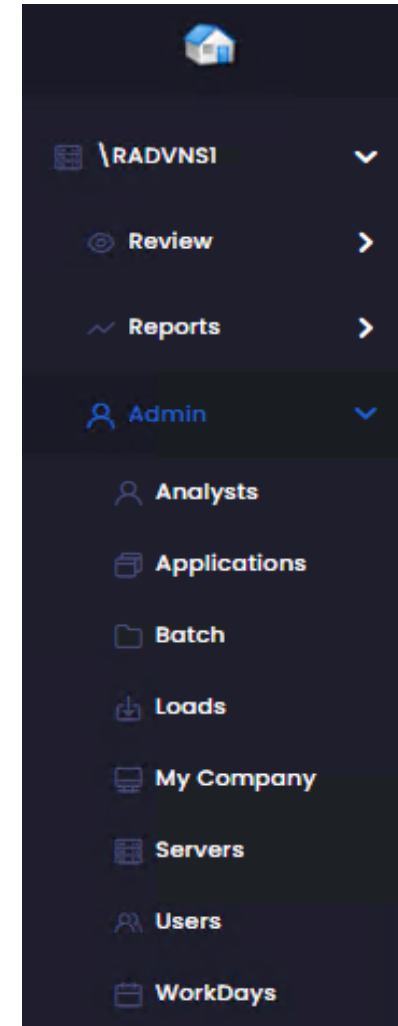
Make sure your batch job finish on time



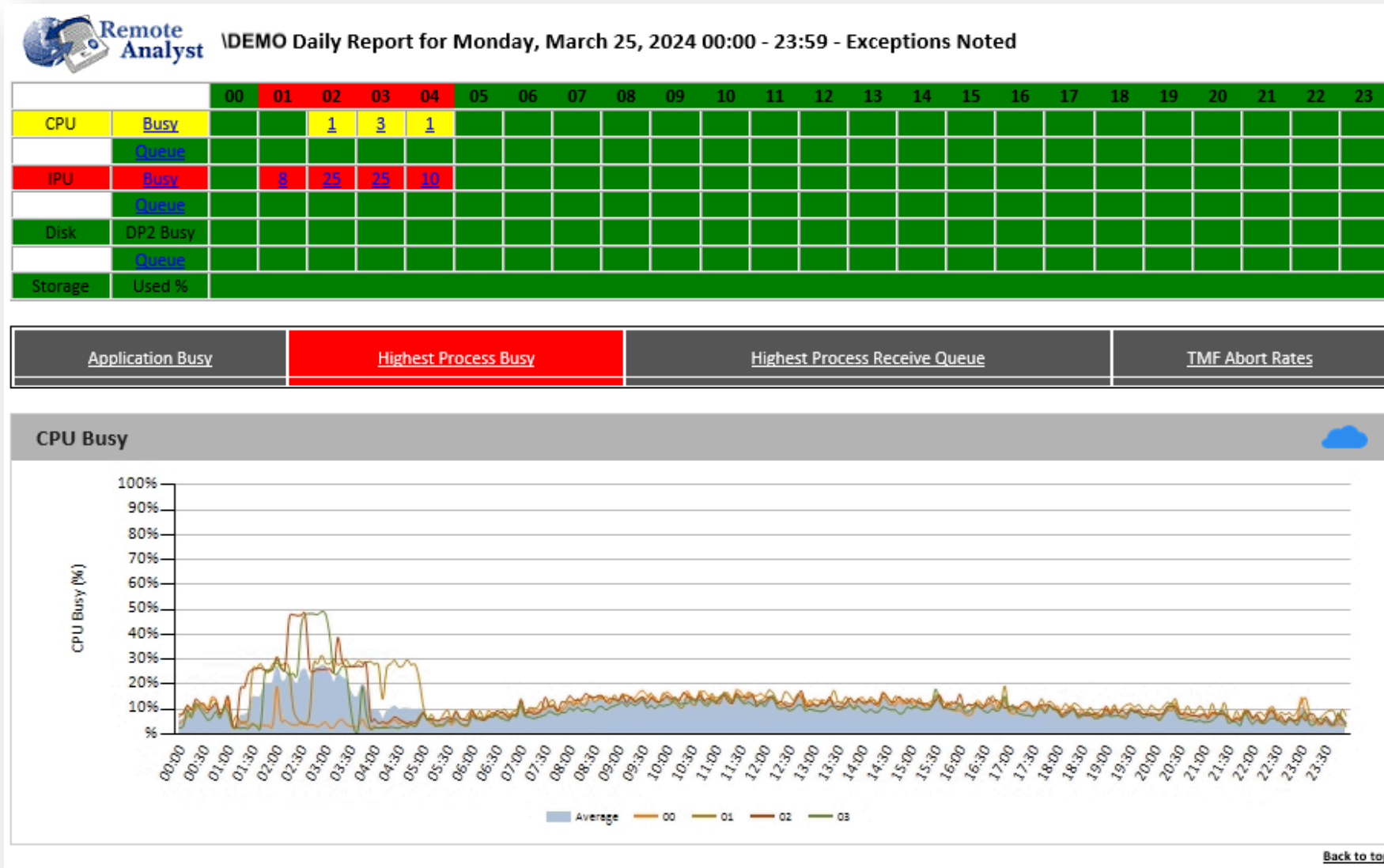
What Else?



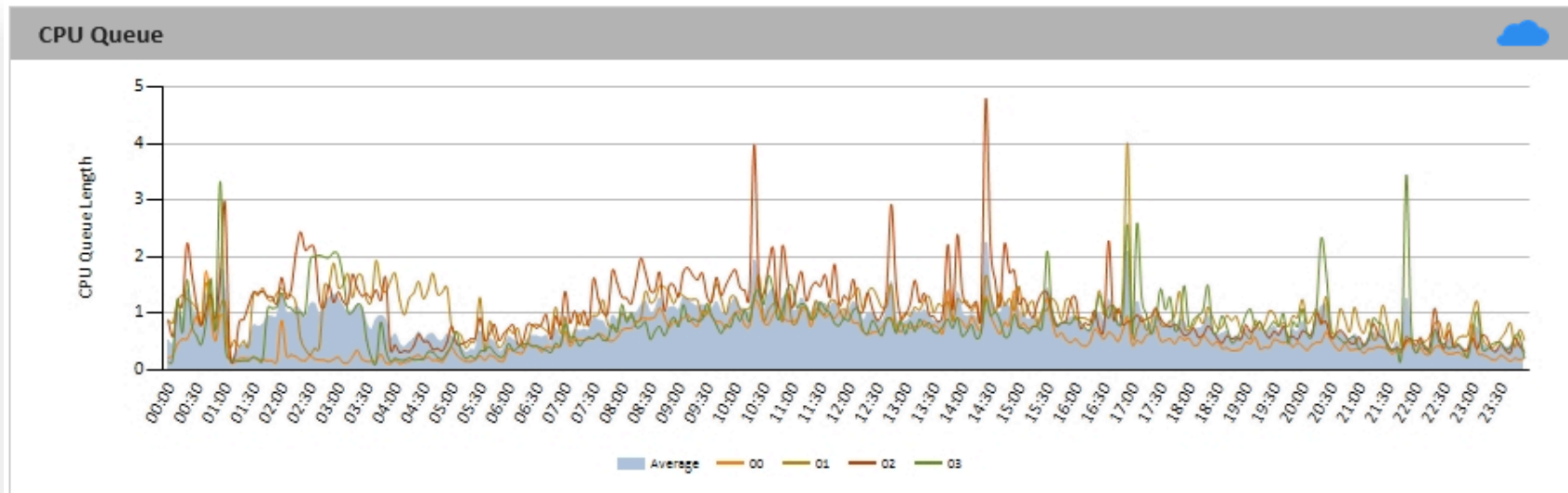
- System. Measure Counters
- Network. TCP. IPv6, SLSA, Expand
- Applications. Any and all.
- Pathways. SERVERs
- User D.C. User Defined Counters
- Transactions Your definitions.
- Exceptions Anomalies
- Batch Meeting your SLAs
- Xapps Shadowbase, Base 24, Connex, any...



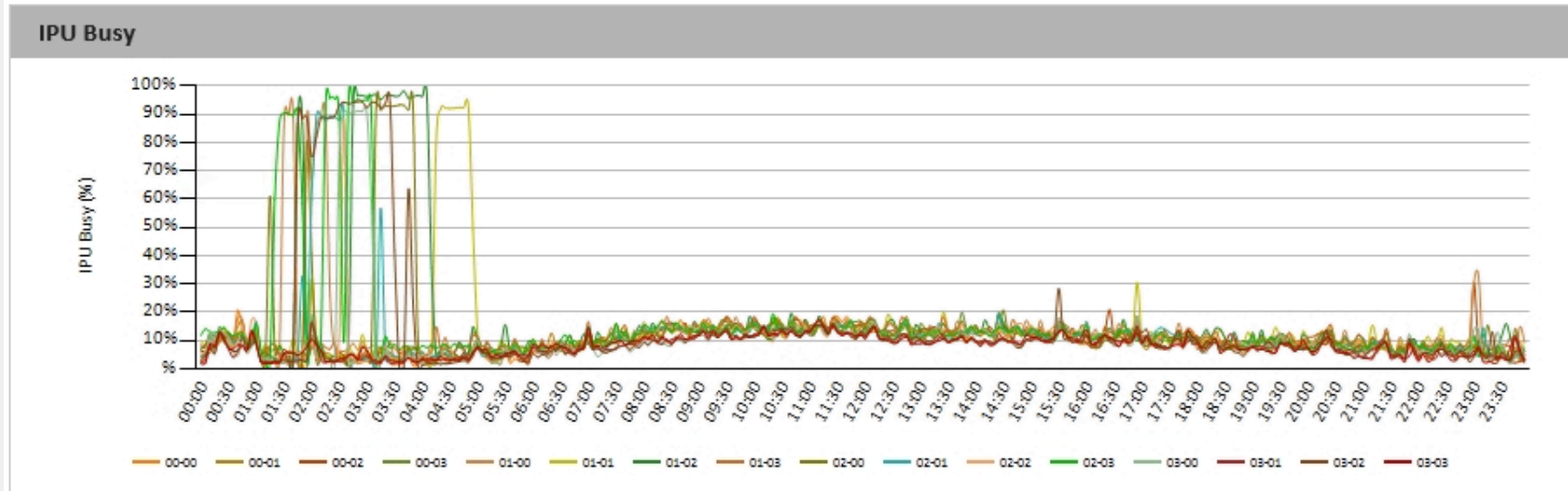
Analytics. They come to you.



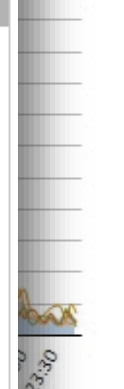
Analytics. They come to you.



[Back to top](#)

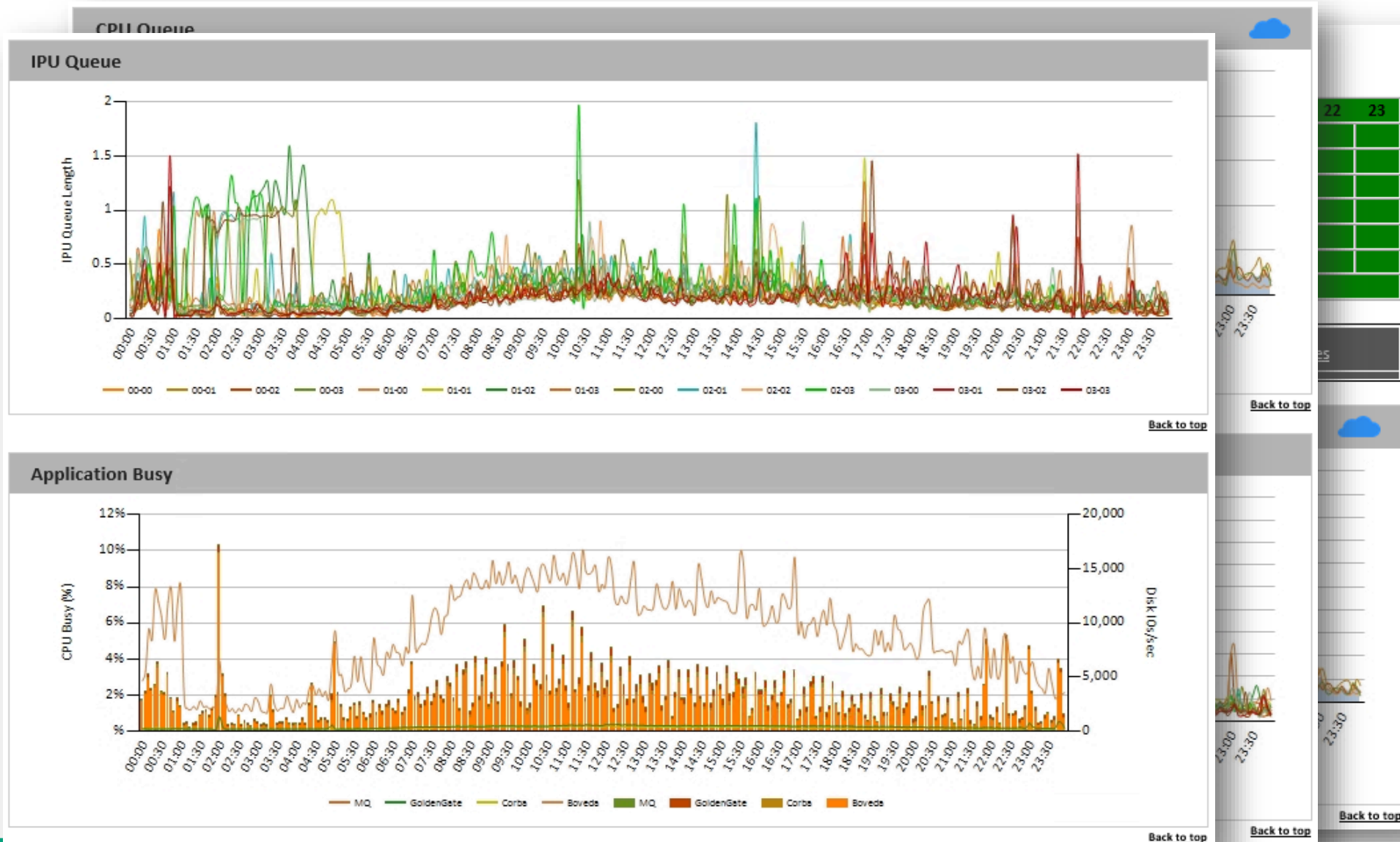


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[Back to top](#)

Analytics. They come to you.



Analytics. They come to you.

Highest Disk Queue, per interval



[Back to top](#)

Highest Disk Queues

| Disk | Queue Length | Busiest file | Physical IO / Sec | Logical IO / Sec | Cache Hit Rate | DP2 Busy % | Interval period |
|--------------------------|--------------|--------------------------|-------------------|------------------|----------------|------------|-----------------|
| \$DATA19 | 1.69 | \$DATA19.ZLEDB1.CCAPTXNZ | 180.76 | 1,074.68 | 97.69 | 4.17 | March 25 13:20 |
| \$DATA1 | 1.55 | \$DATA1.SYS00.DIRECTRY | 319.95 | 495.67 | 97.50 | 3.75 | March 25 02:20 |
| \$DATA1 | 1.50 | \$DATA1.SYS00.DIRECTRY | 315.51 | 491.36 | 97.55 | 3.71 | March 25 02:40 |
| \$DATA1 | 1.47 | \$DATA1.ZLEDB1.CCAPTXNZ | 330.82 | 490.87 | 97.43 | 4.19 | March 25 02:10 |
| \$DATA1 | 1.47 | \$DATA1.SYS00.DIRECTRY | 296.93 | 457.24 | 97.59 | 3.62 | March 25 02:55 |
| \$DATA1 | 1.46 | \$DATA1.SYS00.DIRECTRY | 271.39 | 479.25 | 97.62 | 3.34 | March 25 02:00 |
| \$DATA1 | 1.45 | \$DATA1.ZLEDB1.CCAPTXNZ | 308.28 | 453.69 | 97.43 | 3.89 | March 25 02:15 |
| \$DATA1 | 1.44 | \$DATA1.SYS00.DIRECTRY | 305.18 | 455.63 | 97.50 | 3.86 | March 25 02:25 |
| \$DATA1 | 1.44 | \$DATA1.ZLEDB1.CCAPTXNZ | 296.60 | 414.76 | 97.17 | 4.07 | March 25 02:30 |
| \$DATA1 | 1.43 | \$DATA1.ZLEDB1.CCAPTXNZ | 284.08 | 464.62 | 97.54 | 3.73 | March 25 03:00 |
| \$DATA1 | 1.42 | \$DATA1.ZLEDB1.CCAPTXNZ | 309.90 | 452.04 | 97.54 | 3.95 | March 25 01:55 |
| \$DATA1 | 1.40 | \$DATA1.ZLEDB1.CCAPTXNZ | 312.77 | 450.26 | 97.44 | 4.15 | March 25 02:45 |
| \$DATA1 | 1.40 | \$DATA1.SYS00.DIRECTRY | 263.05 | 453.66 | 97.92 | 2.46 | March 25 01:15 |
| \$DATA1 | 1.39 | \$DATA1.ZLEDB1.CCAPTXNZ | 322.51 | 459.99 | 97.36 | 4.32 | March 25 02:35 |
| \$DATA1 | 1.38 | \$DATA1.ZLEDB1.CCAPTXNZ | 300.02 | 404.08 | 97.11 | 4.34 | March 25 03:10 |
| \$DATA1 | 1.36 | \$DATA1.SYS00.DIRECTRY | 249.48 | 405.33 | 97.73 | 2.67 | March 25 01:20 |
| \$DATA1 | 1.35 | \$DATA1.ZLEDB1.CCAPTXNZ | 238.30 | 409.95 | 96.30 | 1.90 | March 25 01:50 |
| \$DATA1 | 1.35 | \$DATA1.ZLEDB1.CCAPTXNZ | 271.19 | 401.76 | 97.49 | 3.39 | March 25 01:40 |

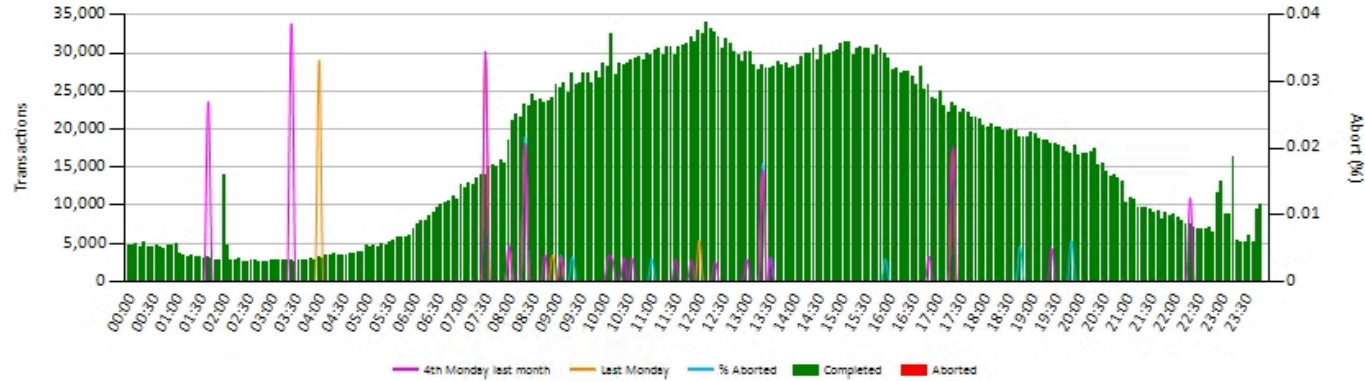
Vertical sidebar containing multiple charts and navigation elements:

- Top: Cloud icon
- Chart 1: Small line chart showing data over time.
- Chart 2: Small line chart showing data over time.
- Table: A small table with two columns, values 22 and 23.
- Chart 3: Small line chart showing data over time.
- Chart 4: Small line chart showing data over time.
- Bottom: Cloud icon

Navigation links: [Back to top](#) (multiple instances)

Analytics. They come to you.

Completed & Aborted Transactions, per interval



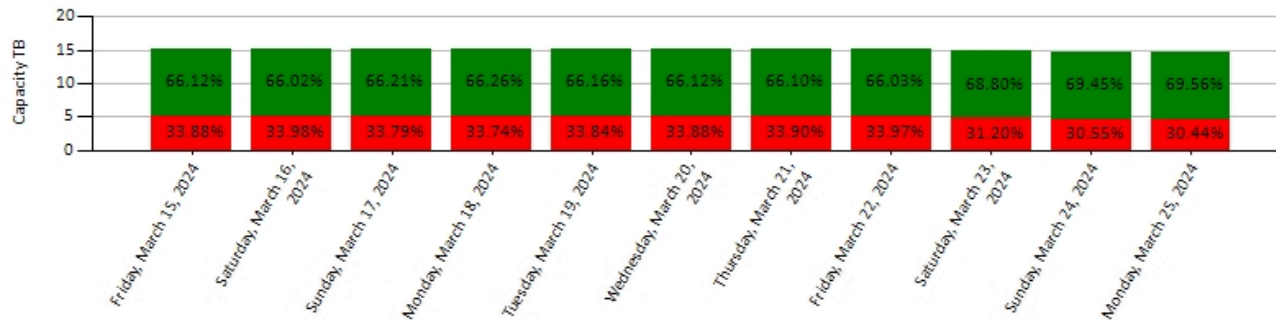
[Back to top](#)

Highest TMF Abort Rates

| Process | Abort % | Begin / Sec | Abort / Sec | Busy % | CPU:IPU | Program | Owner | Ancestor | Priority | Receive Queue | Memory | Interval period |
|-------------------------|---------|-------------|-------------|--------|---------|--------------------------|---------|----------|----------|---------------|--------|-------------------|
| \$STV11 | 16.67 | 0.02 | 0.00 | 0.00 | 01:01 | \$OSS3.ZYQ00001.Z0000CST | 025,250 | \$BAP1 | 150 | 0.00 | 15.43 | March 25 19:50:01 |
| \$Z4X1 | 5.75 | 0.50 | 0.03 | 0.60 | 02:00 | \$SYSTEM.SYSTEM.SQLCI | 025,250 | \$Z4VN | 119 | 0.00 | 0.60 | March 25 13:21:22 |
| \$Z1QV | 5.75 | 0.83 | 0.05 | 1.09 | 02:01 | \$SYSTEM.SYSTEM.SQLCI | 025,250 | \$Z1PD | 119 | 0.00 | 0.60 | March 25 08:21:25 |

[Back to top](#)

Storage



Vertical sidebar containing multiple charts and data points:

- Line chart showing a peak around 23:00.
- Line chart showing a peak around 23:30.
- Grid of green cells with values 22 and 23.
- Line chart showing a peak around 23:00.
- Line chart showing a peak around 23:30.
- Line chart showing a peak around 23:00.
- Line chart showing a peak around 23:30.

Techie and Proud

| Name | |
|---|-----|
| About | |
| System Performance Summary | |
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| Processor Overview | |
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Techie and Proud

| Application Analyses | | | Negative Factors | |
|--|--|--|--|-----|
| Applications - Collection | | | Contributing Factors to CPU Score | Q52 |
| Applications - Collection - CPUs | | | Contributing Factors to Memory Score | Q53 |

Node Overview (Q01)

| | Maximum | Average |
|---------------------|----------------|----------------|
| CPU | | |
| Utilization pct(%) | 73.25 | 47.16 |
| Dispatch Rate | 557,600.12 | 322,726.32 |
| Swap Rate | 209.13 | 36.08 |
| Queue Length | 13.32 | 4.74 |
| IPU Queue Length | 3.87 | 1.19 |
| Memory | | |
| Utilization | 82.64 GB - 32% | 76.94 GB - 30% |
| Process | | |
| Low PIN | 75 | 61 |
| Transient Processes | 7,605 | 2,183 |
| Disk | | |
| Cache Hit pct(%) | 100.00 | 94.23 |
| Cache Call Rate | 38 | 3 |
| Disk Busy | 7.44 | 1.17 |
| Queue Time | 134.92 | 0.78 |
| Queue Length | 55.06 | 0.36 |

CPU Busy pct(%)

| Time | 00 | 01 | 02 | 03 | 04 | 05 |
|-------------|----|----|----|----|----|----|
| 12:00:00 AM | 65 | 70 | 60 | 65 | 55 | 45 |
| 12:15:00 AM | 55 | 60 | 50 | 55 | 45 | 35 |
| 12:30:00 AM | 45 | 50 | 40 | 45 | 35 | 25 |
| 12:45:00 AM | 35 | 40 | 30 | 35 | 25 | 15 |

| Analysis | Grade | Analysis | Grade |
|-----------------------|-------|------------------|-------|
| CPU | Poor | Memory Subsystem | Poor |
| System Recovery | Poor | Index Levels > 2 | Poor |
| Disk Cache Subsystem | Good | Cache Fault | Good |
| Disk Volume Subsystem | Good | Load Balance | Poor |
| Blocked Requests | Good | Storage | Poor |

| Transient Class Details | | Exclude Parameter Values | |
|--|-----|--|-----|
| Transient Process Distribution - Process Count | | Exclude Parameter Values | Q73 |
| Transient Ancestors | Q50 | | |
| Other Details | Q51 | | |



Techie and Proud

| Application Analyses | | Negative Factors | |
|--|--|--|-----|
| Applications - Collection | | Contributing Factors to CPU Score | Q52 |
| Applications - Collection - CPUs | | Contributing Factors to Memory Score | Q53 |

Processor Overview (Q02)

| Processor | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| CPU Type | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 |
| Memory Size (GB) | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 |
| Disk Process | 55 | 69 | 70 | 70 | 68 | 65 | 61 | 64 | 69 | 53 |

| CPU Out of Balance | N | | Y | | Y | | Y | | N | | N | | N | | N | | N | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max | | |
| CPU Busy pct(%) | 43.62 | 63.94 | 55.82 | 73.25 | 54.93 | 67.18 | 39.35 | 65.95 | 46.39 | 70.46 | 50.27 | 69.81 | 45.54 | 69.77 | 47.20 | 61.92 | 45.40 | 65.55 | 43.13 | 63.47 |
| CPU Queue Length | 3.24 | 5.53 | 7.25 | 12.54 | 5.25 | 8.92 | 4.78 | 11.54 | 5.97 | 13.46 | 5.01 | 9.21 | 3.68 | 7.59 | 4.11 | 5.72 | 4.44 | 9.47 | 3.68 | 6.95 |
| IPU Queue Length | 0.81 | 1.50 | 1.81 | 3.42 | 1.31 | 2.48 | 1.20 | 3.85 | 1.49 | 3.39 | 1.25 | 2.46 | 0.92 | 1.98 | 1.03 | 1.57 | 1.11 | 2.56 | 0.92 | 1.86 |
| Dispatch Rate | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### |
| Swap Rate | 17.05 | 43.15 | 17.06 | 28.50 | 37.97 | 54.39 | 13.06 | 40.18 | 11.86 | 27.15 | 7.13 | 14.83 | 12.18 | 17.92 | 184.31 | 191.43 | 5.73 | 12.21 | 54.43 | 209.13 |
| Processes | 2,432 | 2,432 | 3,400 | 3,400 | 9,422 | 9,422 | 3,672 | 3,672 | 2,832 | 2,832 | 3,898 | 3,898 | 2,943 | 2,943 | 4,170 | 4,170 | 2,808 | 2,808 | 3,005 | 3,005 |
| Low PIN | 61 | 68 | 65 | 72 | 61 | 69 | 63 | 72 | 57 | 66 | 64 | 75 | 64 | 74 | 57 | 67 | 54 | 61 | 66 | 74 |
| Transient Processes | N/A | 902 | N/A | 1,707 | N/A | 7,605 | N/A | 1,925 | N/A | 1,149 | N/A | 2,217 | N/A | 1,362 | N/A | 2,550 | N/A | 1,040 | N/A | 1,372 |
| Disk Volume Busy | 1.41 | 7.16 | 1.21 | 6.39 | 1.06 | 5.55 | 0.92 | 5.68 | 1.16 | 4.25 | 1.30 | 5.24 | 1.48 | 6.61 | 1.15 | 5.30 | 0.90 | 6.73 | 1.20 | 7.44 |
| Average DP2 CPU Busy | 0.39 | 1.87 | 0.65 | 2.65 | 0.45 | 3.45 | 0.52 | 5.81 | 0.58 | 2.27 | 0.61 | 2.00 | 0.41 | 1.67 | 0.46 | 2.59 | 0.43 | 1.73 | 0.41 | 2.96 |
| pct(%) Memory used | 25.73 | 25.73 | 31.26 | 31.28 | 31.84 | 31.85 | 32.38 | 32.38 | 31.78 | 31.79 | 31.07 | 31.08 | 29.75 | 29.76 | 30.40 | 30.41 | 32.18 | 32.21 | 25.10 | 25.11 |
| Memory left (GB) | 185.54 | 185.55 | 175.41 | 175.44 | 173.93 | 173.95 | 172.56 | 172.57 | 174.08 | 174.10 | 175.85 | 175.91 | 179.27 | 179.29 | 177.62 | 177.65 | 173.06 | 173.11 | 191.15 | 191.20 |

| | | |
|------------------|--------|-------|
| Cache Hit pct(%) | 100.00 | 94.23 |
| Cache Call Rate | 38 | 3 |
| Disk Busy | 7.44 | 1.17 |
| Queue Time | 134.92 | 0.78 |
| Queue Length | 55.06 | 0.36 |

| | |
|-----------------------|------|
| CPU | Poor |
| System Recovery | Poor |
| Disk Cache Subsystem | Good |
| Disk Volume Subsystem | Good |
| Blocked Requests | Good |

| | |
|------------------|------|
| Memory Subsystem | Poor |
| Index Levels > 2 | Poor |
| Cache Fault | Good |
| Load Balance | Poor |
| Storage | Poor |

| | | |
|--|--|-----|
| Transient Process Distribution - Process Count | Exclude Parameter Values | Q73 |
| Transient Ancestors | | Q50 |
| Other Details | | Q51 |

Techie and Proud

Application Analyses

- Applications - Collection
- Applications - Collection - CPUs

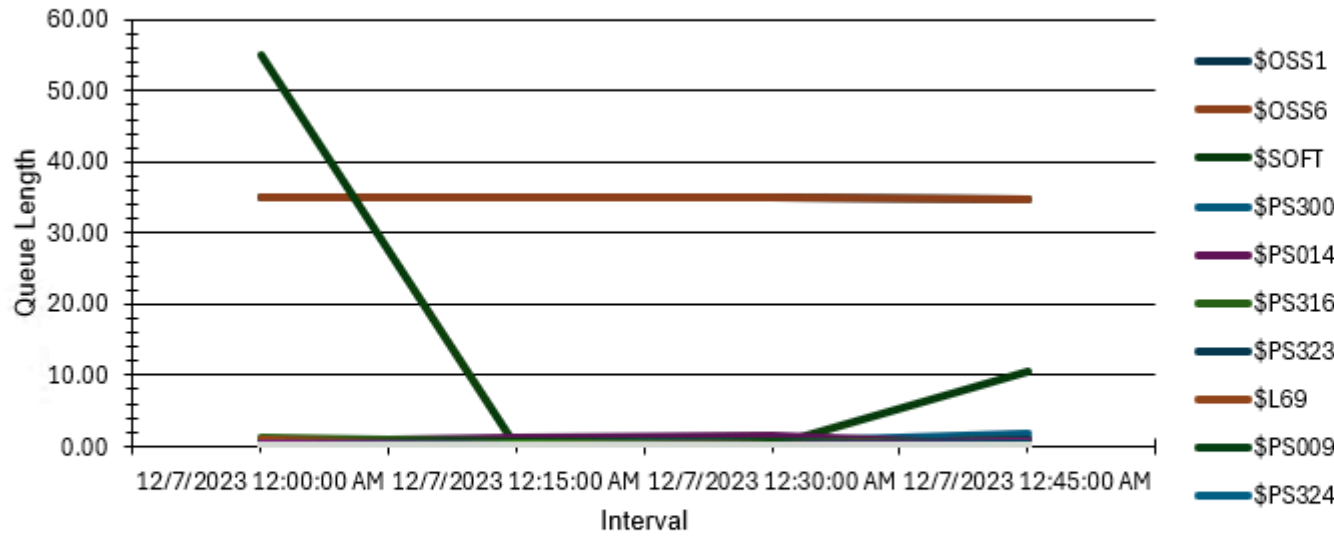
Negative Factors

- Contributing Factors to CPU Score Q52
- Contributing Factors to Memory Score Q53

| Processor | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| CPU Type | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 | 11 30 |
| Memory Size (GB) | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 | 255.20 |
| | | | | | | | | | 69 | 53 |

Disk Queue Length per Interval (Q31)

Disk Queue Length per Interval



| Time Stamp | \$OSS1 | \$OSS6 | \$SOFT | \$PS300 | \$PS014 | \$PS316 | \$PS323 | \$L69 | \$PS009 | \$PS324 | \$PS022 | \$LDAT4 | \$ |
|-----------------------|--------|--------|--------|---------|---------|---------|---------|-------|---------|---------|---------|---------|----|
| 12/7/2023 12:00:00 AM | 35.01 | 35.00 | 54.89 | 0.54 | 0.72 | 1.11 | 0.17 | 0.17 | 0.34 | 0.23 | 0.14 | 0.21 | |
| 12/7/2023 12:15:00 AM | 35.01 | 35.00 | 0.08 | 0.77 | 1.34 | 0.77 | 0.63 | 0.08 | 0.56 | 0.41 | 0.03 | 0.10 | |
| 12/7/2023 12:30:00 AM | 35.01 | 35.00 | 0.08 | 0.57 | 1.47 | 0.45 | 0.33 | 0.74 | 0.45 | 0.60 | 0.11 | 0.15 | |
| 12/7/2023 12:45:00 AM | 35.01 | 35.00 | 10.43 | 1.83 | 0.16 | 0.07 | 0.60 | 0.54 | 0.04 | 0.13 | 1.06 | 0.83 | |

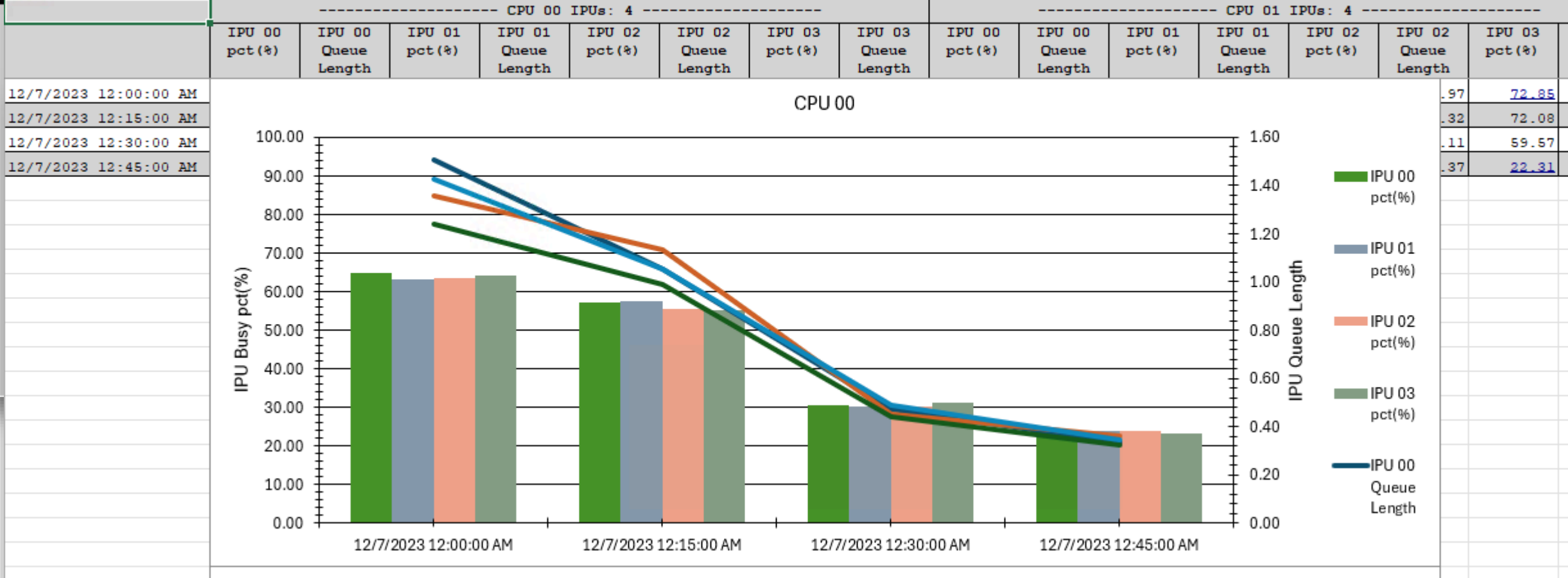
| | N | | N | |
|--------|--------|--------|--------|--------|
| Max | Avg | Max | Avg | Max |
| 61.82 | 45.40 | 65.55 | 43.13 | 63.47 |
| 5.72 | 4.44 | 9.47 | 3.66 | 6.95 |
| 1.57 | 1.11 | 2.56 | 0.92 | 1.86 |
| 191.43 | 5.73 | 12.21 | 54.43 | 209.13 |
| 4,170 | 2,808 | 2,808 | 3,005 | 3,005 |
| 67 | 54 | 61 | 66 | 74 |
| 2,550 | N/A | 1,040 | N/A | 1,372 |
| 5.30 | 0.90 | 6.73 | 1.20 | 7.44 |
| 2.59 | 0.43 | 1.73 | 0.41 | 2.96 |
| 30.41 | 32.18 | 32.21 | 25.10 | 25.11 |
| 177.65 | 173.06 | 173.11 | 151.15 | 151.20 |

| | |
|------------------|------|
| Memory Subsystem | Poor |
| Index Levels > 2 | Poor |
| Cache Fault | Good |
| Load Balance | Poor |
| Storage | Poor |

Q73

Techie and Proud

IPU Detail (Q13)



| | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 12/7/2023 12:00:00 AM | 35.01 | 35.00 | 54.89 | 0.54 | 0.72 | 1.11 | 0.17 | 0.17 | 0.34 | 0.23 | 0.14 | 0.21 |
| 12/7/2023 12:15:00 AM | 35.01 | 35.00 | 0.08 | 0.77 | 1.34 | 0.77 | 0.63 | 0.08 | 0.56 | 0.41 | 0.03 | 0.10 |
| 12/7/2023 12:30:00 AM | 35.01 | 35.00 | 0.08 | 0.57 | 1.47 | 0.45 | 0.33 | 0.74 | 0.45 | 0.60 | 0.11 | 0.15 |
| 12/7/2023 12:45:00 AM | 35.01 | 35.00 | 10.43 | 1.83 | 0.16 | 0.07 | 0.60 | 0.54 | 0.04 | 0.13 | 1.06 | 0.83 |

Techie and Proud

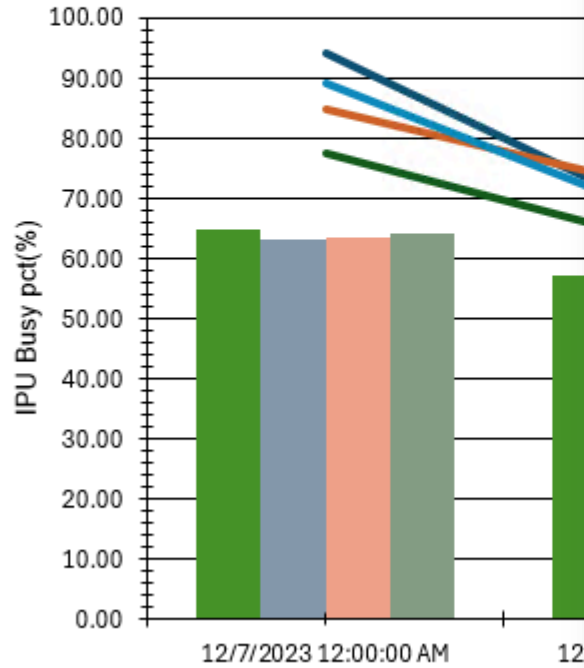
Application Analyses

Negative Factors

IPU Detail (Q13)

| ----- CPU 00 IPU----- | | | | |
|-----------------------|--------------|--------|--------------|--------|
| IPU 00 | IPU 00 | IPU 01 | IPU 01 | IPU 02 |
| pct(%) | Queue Length | pct(%) | Queue Length | pct(%) |

| |
|-----------------------|
| 12/7/2023 12:00:00 AM |
| 12/7/2023 12:15:00 AM |
| 12/7/2023 12:30:00 AM |
| 12/7/2023 12:45:00 AM |



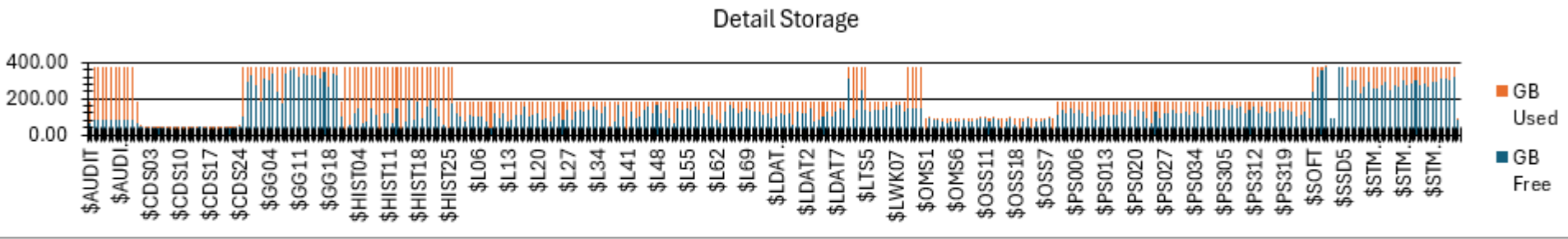
File Transient Open Alerts (Q42)

| Volume | Subvol | File Name | Time Stamp | Transient Opens | Open Queue Length |
|----------|----------|-----------|-----------------------|-----------------|-------------------|
| \$SYSTEM | SYSTEM | USERIDAK | 12/7/2023 12:00:01 AM | 41,354 | 39.05 |
| \$SYSTEM | SYSTEM | USERID | 12/7/2023 12:00:01 AM | 41,354 | 39.02 |
| \$SYSTEM | SYSTEM | USERIDAK | 12/7/2023 12:30:01 AM | 32,438 | 39.02 |
| \$SYSTEM | SYSTEM | USERID | 12/7/2023 12:30:01 AM | 32,438 | 39.01 |
| \$SYSTEM | SYSTEM | USERIDAK | 12/7/2023 12:15:00 AM | 26,651 | 39.02 |
| \$SYSTEM | SYSTEM | USERID | 12/7/2023 12:15:00 AM | 26,651 | 39.01 |
| \$SYSTEM | SYSTEM | USERIDAK | 12/7/2023 12:45:00 AM | 22,373 | 39.01 |
| \$SYSTEM | FILERUN | R | 12/7/2023 12:45:00 AM | 22,373 | 39.00 |
| \$SYSTEM | SAFE | LUSERID | 12/7/2023 12:00:01 AM | 19,889 | 0.02 |
| \$SYSTEM | SAFE | LUSERIDG | 12/7/2023 12:00:01 AM | 18,286 | 68.05 |
| \$SYSTEM | SAFE | LUSERID | 12/7/2023 12:00:01 AM | 18,286 | 68.03 |
| \$SYSTEM | SAFE | LUSERIDG | 12/7/2023 12:45:00 AM | 15,348 | 68.02 |
| \$SYSTEM | SAFE | LUSERID | 12/7/2023 12:45:00 AM | 15,348 | 68.01 |
| \$SYSTEM | SAFE | LUSERIDG | 12/7/2023 12:30:01 AM | 15,124 | 68.02 |
| \$SYSTEM | SAFE | LUSERID | 12/7/2023 12:30:01 AM | 15,124 | 68.01 |
| \$SYSTEM | SAFE | LUSERIDG | 12/7/2023 12:15:00 AM | 14,734 | 68.02 |
| \$OSS1 | ZYQ00004 | Z000072H | 12/7/2023 12:15:00 AM | 14,734 | 68.01 |
| \$SYSTEM | SYSTEM | USERID | 12/7/2023 12:15:00 AM | 7,464 | 10,711.44 |
| \$SYSTEM | SYSTEM | USERID | 12/7/2023 12:30:00 AM | 7,464 | 18,193.64 |
| \$SYSTEM | SYSTEM | EDIT | 12/7/2023 12:45:00 AM | 7,464 | 25,665.15 |
| \$SYSTEM | SYSTEM | USERID | 12/7/2023 12:00:01 AM | 6,850 | 0.08 |
| \$SYSTEM | SYSTEM | USERID | 12/7/2023 12:15:00 AM | 6,780 | 0.07 |

| Time Stamp | \$OSS1 | \$OSS6 | \$SOFT | \$PS300 | \$PS014 | \$PS014 |
|-----------------------|--------|--------|--------|---------|---------|---------|
| 12/7/2023 12:00:00 AM | 35.01 | 35.00 | 54.89 | 0.54 | 0.72 | 0.72 |
| 12/7/2023 12:15:00 AM | 35.01 | 35.00 | 0.08 | 0.77 | 1.34 | 1.34 |
| 12/7/2023 12:30:00 AM | 35.01 | 35.00 | 0.08 | 0.57 | 1.47 | 1.47 |
| 12/7/2023 12:45:00 AM | 35.01 | 35.00 | 10.43 | 1.83 | 0.16 | 0.16 |

Techie and Proud

Storage Capacity Utilization (Q27)



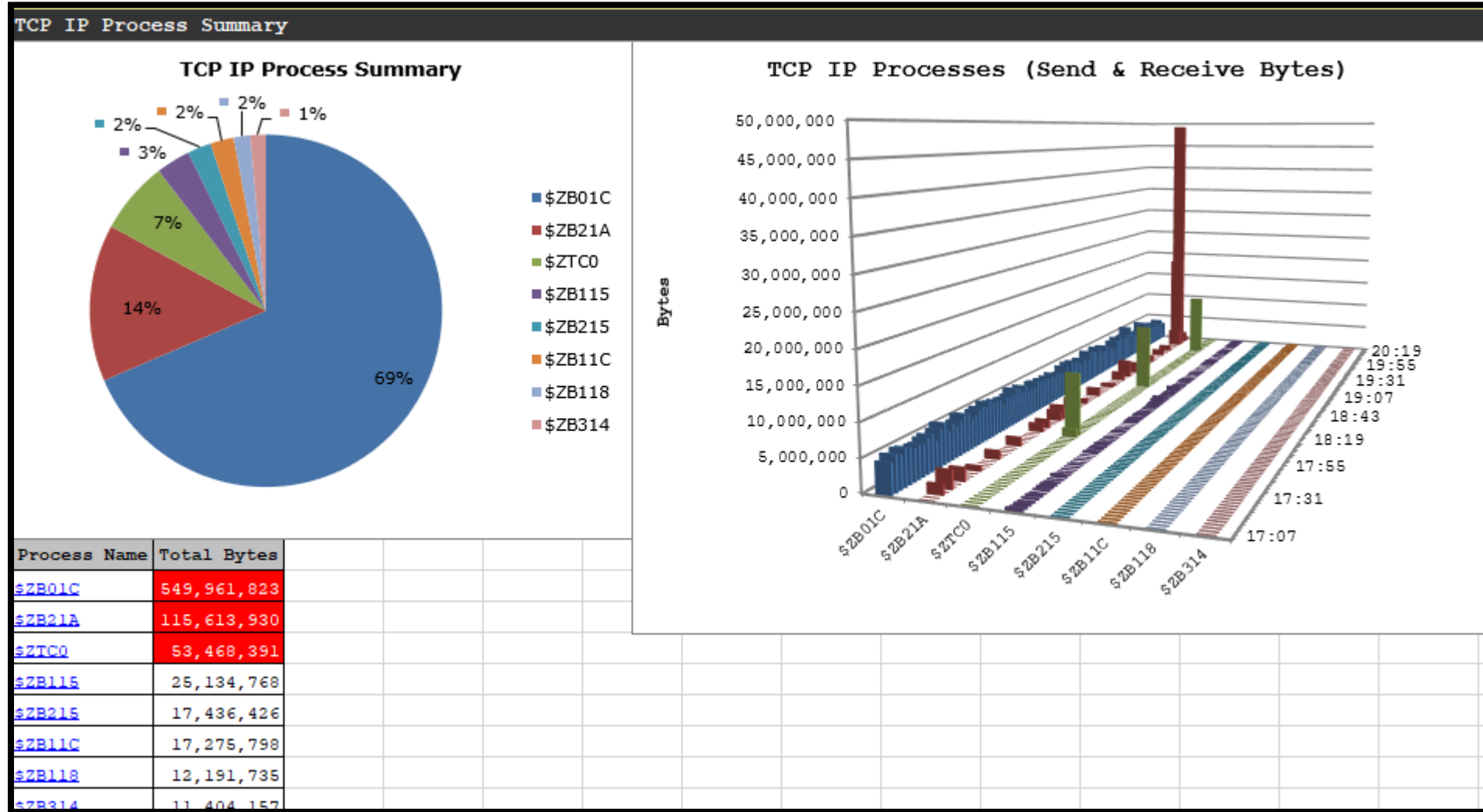
Summary Storage



| Disk | Device Type | GB Capacity | GB Free | GB Used | pct (%) Used |
|-----------|-------------|-------------|---------|---------|--------------|
| \$AUDIT | SSD | 186.26 | 69.07 | 117.20 | 62.92% |
| \$AUDIT1 | SSD | 372.61 | 79.63 | 292.98 | 78.63% |
| \$AUDIT10 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT11 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT2 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT3 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT4 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT5 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT6 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT7 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT8 | SSD | 372.61 | 79.64 | 292.97 | 78.63% |
| \$AUDIT9 | SSD | 186.26 | 69.07 | 117.19 | 62.92% |
| \$CDS01 | SSD | 46.57 | 43.56 | 3.01 | 6.46% |

| Client | Open Queue Length | PU 03 pct (%) |
|--------|-------------------|---------------|
| 41,354 | 39.05 | 72.85 |
| 41,354 | 39.02 | 72.08 |
| 32,438 | 39.02 | 59.57 |
| 32,438 | 39.01 | 22.31 |
| 26,651 | 39.02 | |
| 26,651 | 39.01 | |
| 22,373 | 39.01 | |
| 22,373 | 39.00 | |
| 19,889 | 0.02 | |
| 18,286 | 68.05 | |
| 18,286 | 68.03 | |
| 15,348 | 68.02 | |
| 15,348 | 68.01 | |
| 15,124 | 68.02 | |
| 15,124 | 68.01 | |
| 14,734 | 68.02 | |
| 14,734 | 68.01 | |
| 7,464 | 10,711.44 | |
| 7,464 | 18,193.64 | |
| 7,464 | 25,665.15 | |
| 6,850 | 0.08 | |
| 6,780 | 0.07 | |

Let's dig in



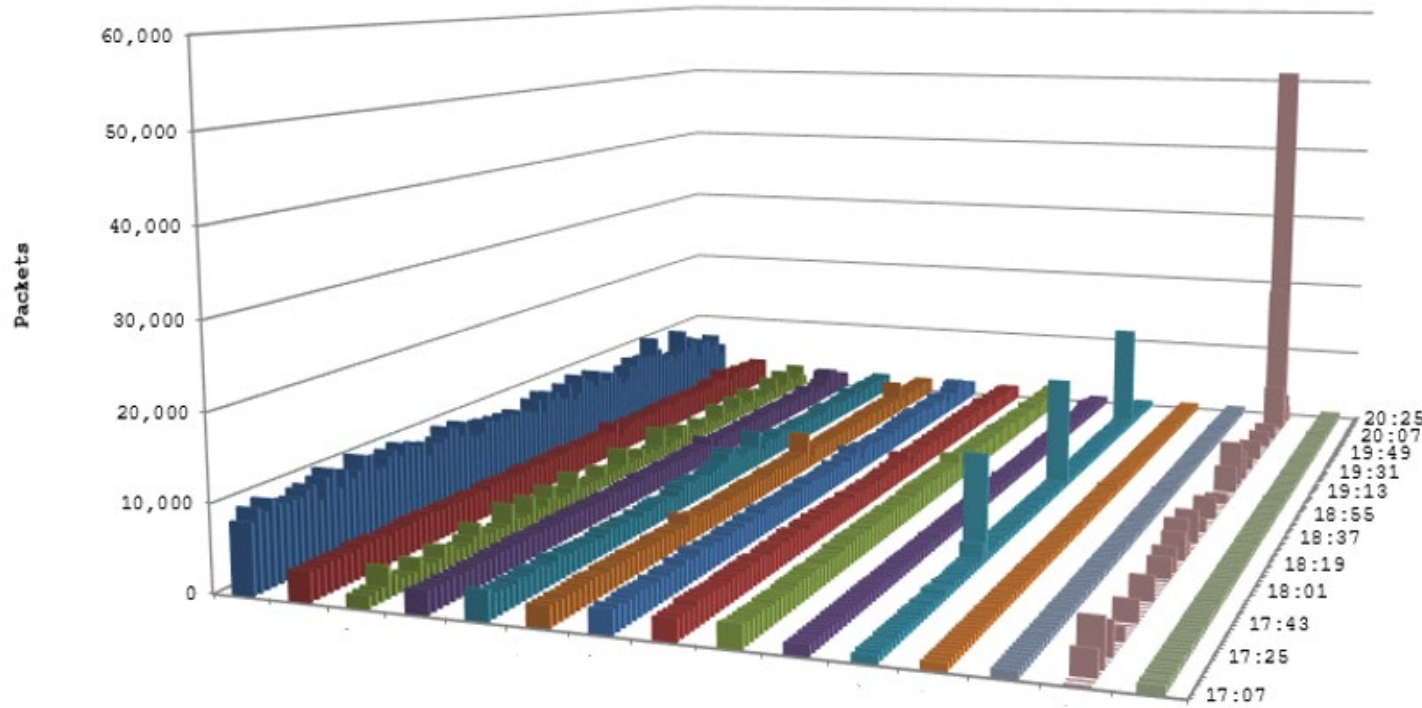
Let's dig in

TCP IP Process Summary

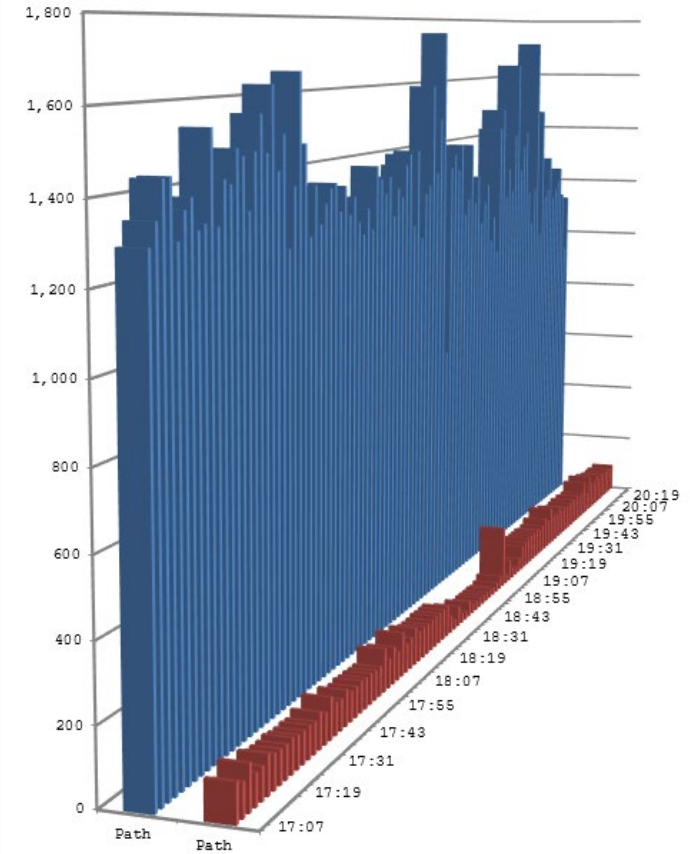
TCP IP Process Summary

TCP IP Processes (Send & Receive Bytes)

TCP IP Subnets (In & Out Packets)

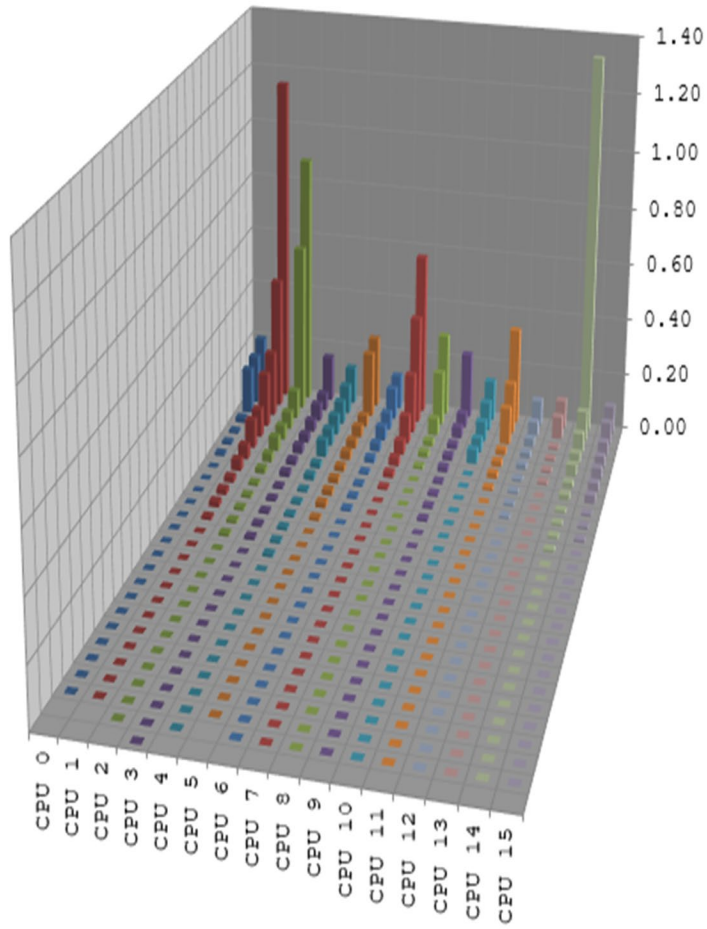


Expand-Path (Send & Receive Packets)

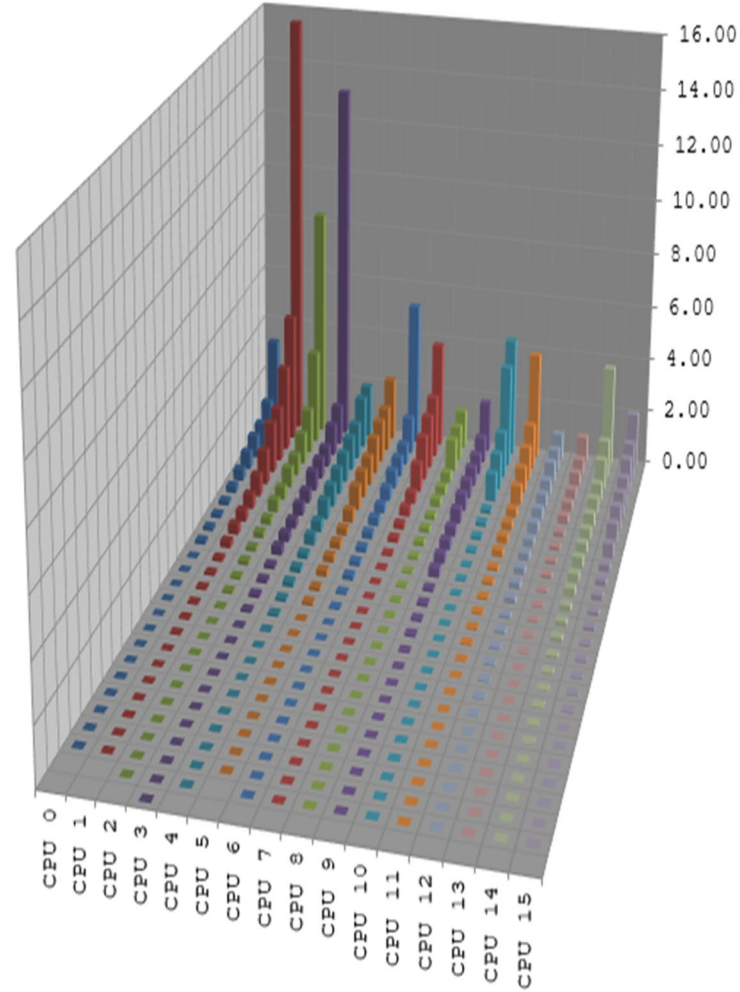


Let's dig in

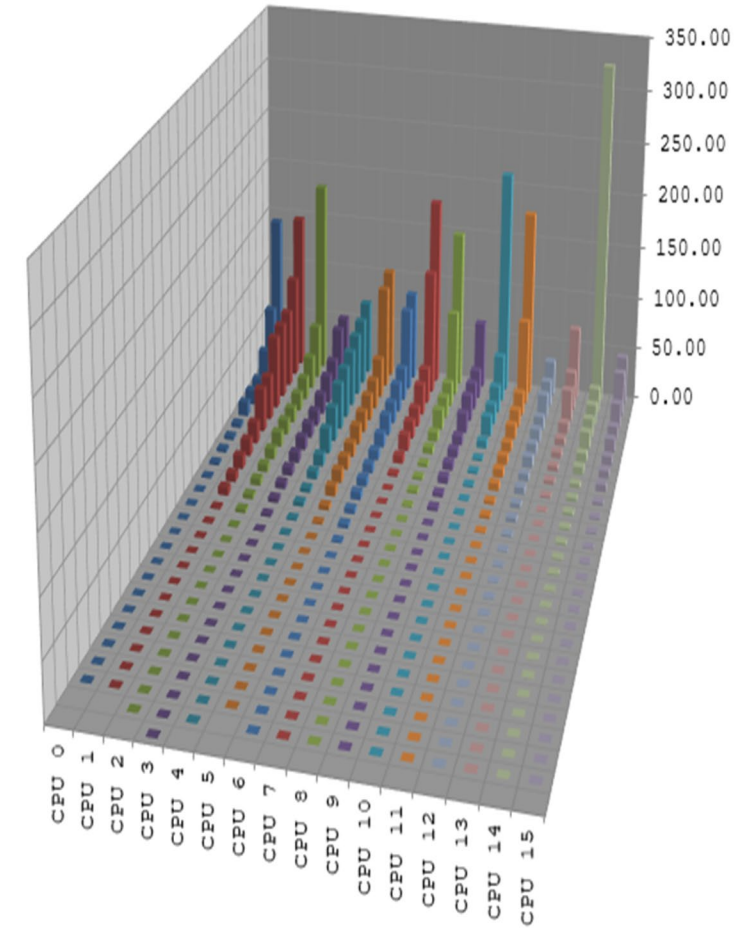
Disk Queue Length Distribution



Disk Process CPU Utilization Distribution



Disk I/O Rate Distribution



Dynamic Data Driven

- Effortlessly integrate new data
- No ceiling; grow as needed
- Create and distribute as many reports as needed
- Data is kept for years
- Remote / Local Analyst knows your system better than you do!

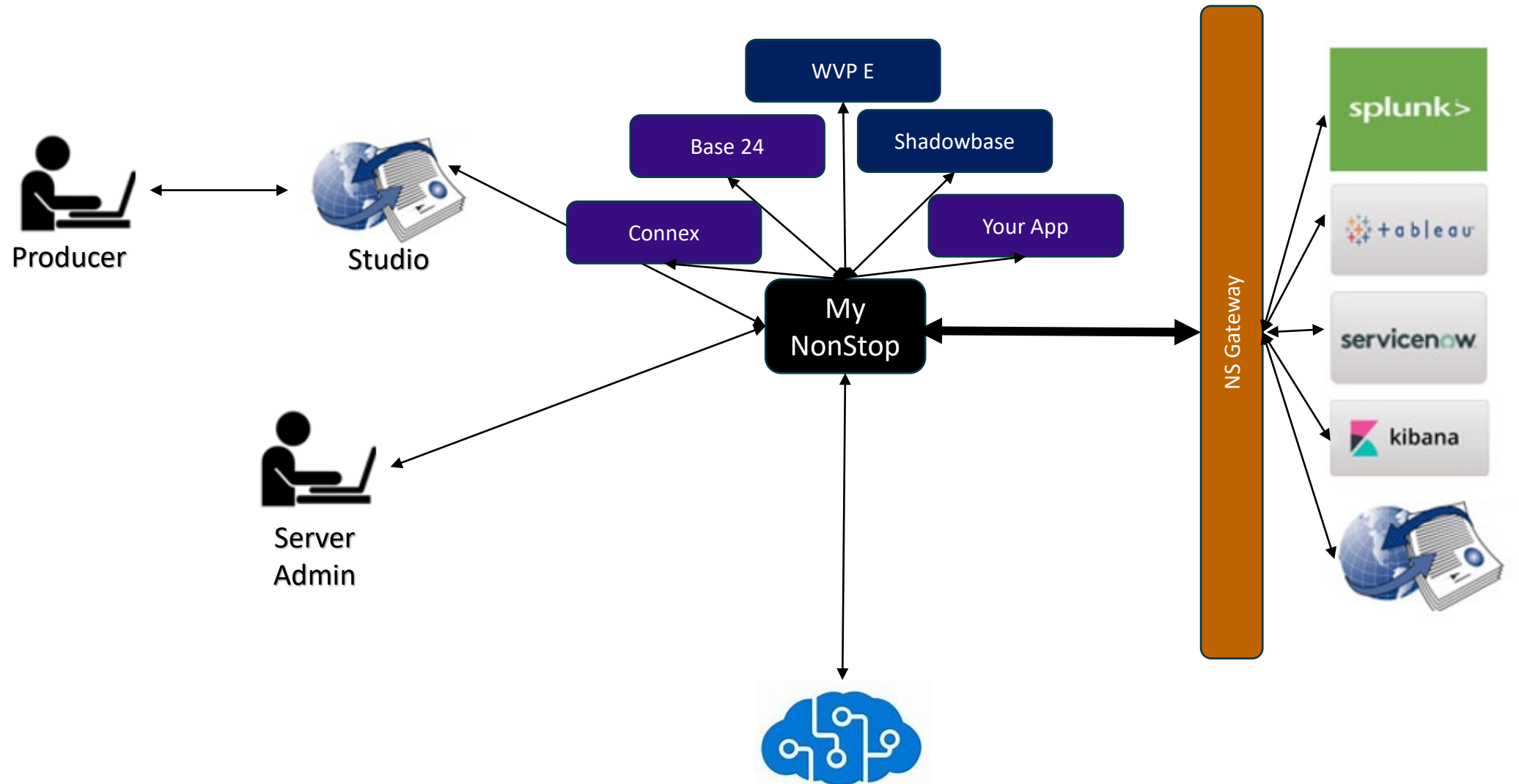


In Short

- Be proactive
- Live is only part of the story
- Do your analytics away from your main business
- Right information to the right people
- Post Release analyses
- Prepare for the new generation

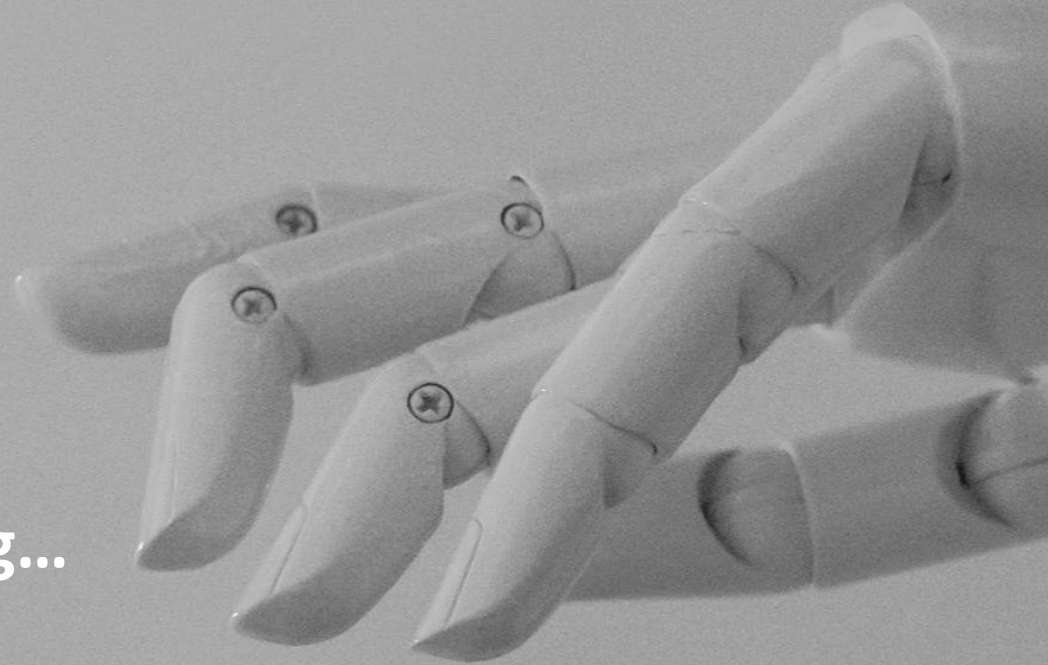


Platform: Open, Extensible, Connected





One more thing...





- Most Machine Learning (ML) products can only detect anomalies and then alert a human
- iManAlge will close a major gap, by *automatically* determining, for any anomaly:
 - Who was affected?
 - Who caused it?
 - What needs to be done? How can that be done? What are the actual commands?
 - Fix it. (human pre-authorization, or manual “live” authorization required)
- iManAlge will greatly improve quality and availability of enterprise servers and substantially lower costs
- iManAlge also provides unique real-time security monitoring (e.g., Fingerprints)
 - Detects any changes to system objects, such as security and ownership
 - With ML, iManAlge autonomously knows expected state of server contents at any time
- Status of iManAlge:
 - Proof of concept (POC) has been achieved internally at Idelji
 - Alpha planned for Q3-2024 for Discover, Visa, and Deutsche Bank (managed by Kyndryl)

The Connection Jan-Feb 2024

A Journal for the Hewlett Packard Enterprise Business Technology Community



**Meet iManAlge:
The Future of AI-Driven
Enterprise Server Management**



SAVE THE DATE.
TBC BY THE SEA 2024¹ SEPT. 23-26

Read the article:



Kyndryl's Journey



Web ViewPoint Enterprise



Local Analyst

- 2020 – Present :
 - Saving ~700,000 Euros each year
- 2024:
 - Dropping antiquated products:
 - Additional savings
 - Improving availability
 - Lower resource utilization



- 2024 +
 - Off platform Automated Smart Analytics
 - Performance improvements
 - Resource utilization Enhancements
 - Exception detections
 - Application monitoring
 - And more...

- 2024 – 2025+
 - Automated Management
 - Improved availability
 - Substantial savings



Integration. Independence.

Web ViewPoint
Enterprise

Local Analyst



Innovations Today and Tomorrow

- Enabling customers with all the features they need in a modern and automated environment
- Preparing NonStop for the new generation
- New Engineers can now do more in less time
- Total cost of ownership is significantly reduced
- Our customers can retain their employees longer as they are satisfied that their work fits within their career plans



Thank you

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