



AI and predictive analytics to:

- Fully automate operations
- Avoid issues in advance



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...



- 2024 – 2025+

- Automated Management
- Improved availability
- Substantial savings



Web ViewPoint Enterprise - 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



Web ViewPoint Enterprise - 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:

Staff RT - Riya x Via:

Pass Text: %CPU Busy Minor Alert

Once

Frequency Notify upon recovery

Every 5 Minutes, until resolved

Synchronize

Major To Enterprise Manager Via:

Staff RT - Riya x idevedant x Via:

Pass Text: %CPU Busy Major Alert

Once

Frequency: Notify upon recovery

Every 5 Minutes, until resolved

Escalate To: idevedant x Via: After 5 Minutes



Web ViewPoint Enterprise - Automated Alert & Recovery

Settings

Forward

Minor To

Enterprise Manager

Via: SNMP JSON Syslog

Staff

Via: Email Text

Pass Text: %CPU Busy Minor Alert

Frequency: Once

Every Minutes, until resolved

Notify upon recovery

Synchronize

Major To

Enterprise Manager

Via: SNMP JSON Syslog

Staff

Via: Email Text

Pass Text: %CPU Busy Major Alert

Frequency: Once

Every Minutes, until resolved

Escalate To:

Via: Email Text

After Minutes

Take Action

AutoOp

Obey Run TACL

Out:

Run as:

Reset

Add ...

Escalate To: Via: Email Text After Minutes

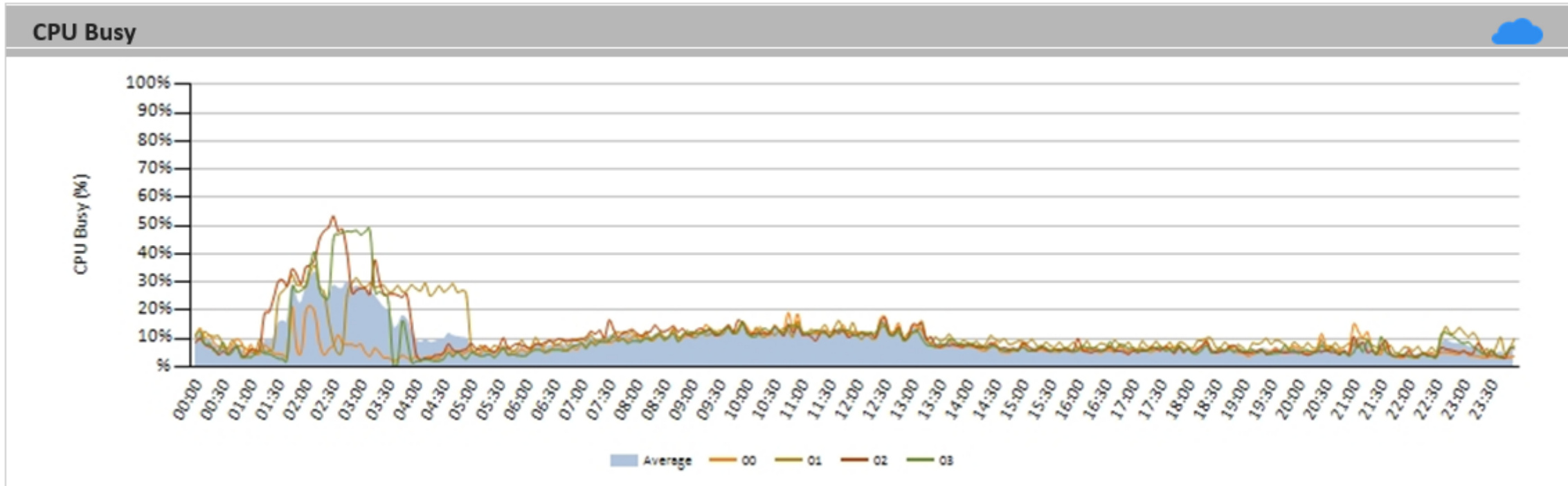




Daily Report for Saturday, April 6, 2024 00:00 - 23:59 - Exceptions Noted

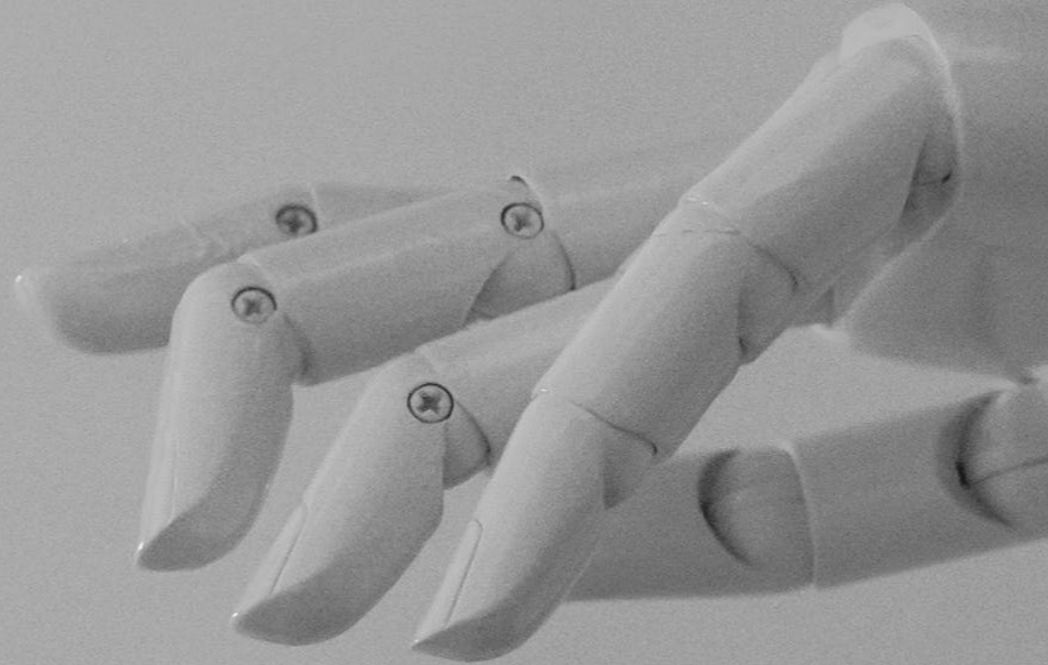
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CPU	Busy																								
	Queue																								
IPU	Busy		7	15	16	1																			
	Queue																								
Disk	DP2 Busy																								
	Queue																								
Storage	Used %																								

[Application Busy](#) **[Highest Process Busy](#)** [Highest Process Receive Queue](#) [TMF Abort Rates](#)



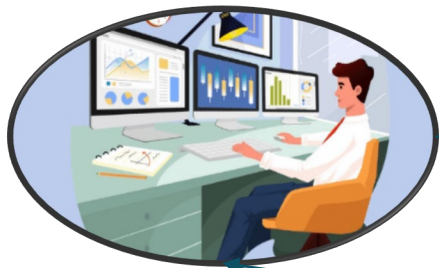


Hello!



Server Management – Then, and still...

Operation



System Manager

1. We have a problem.

4. Done.

5. We are good.

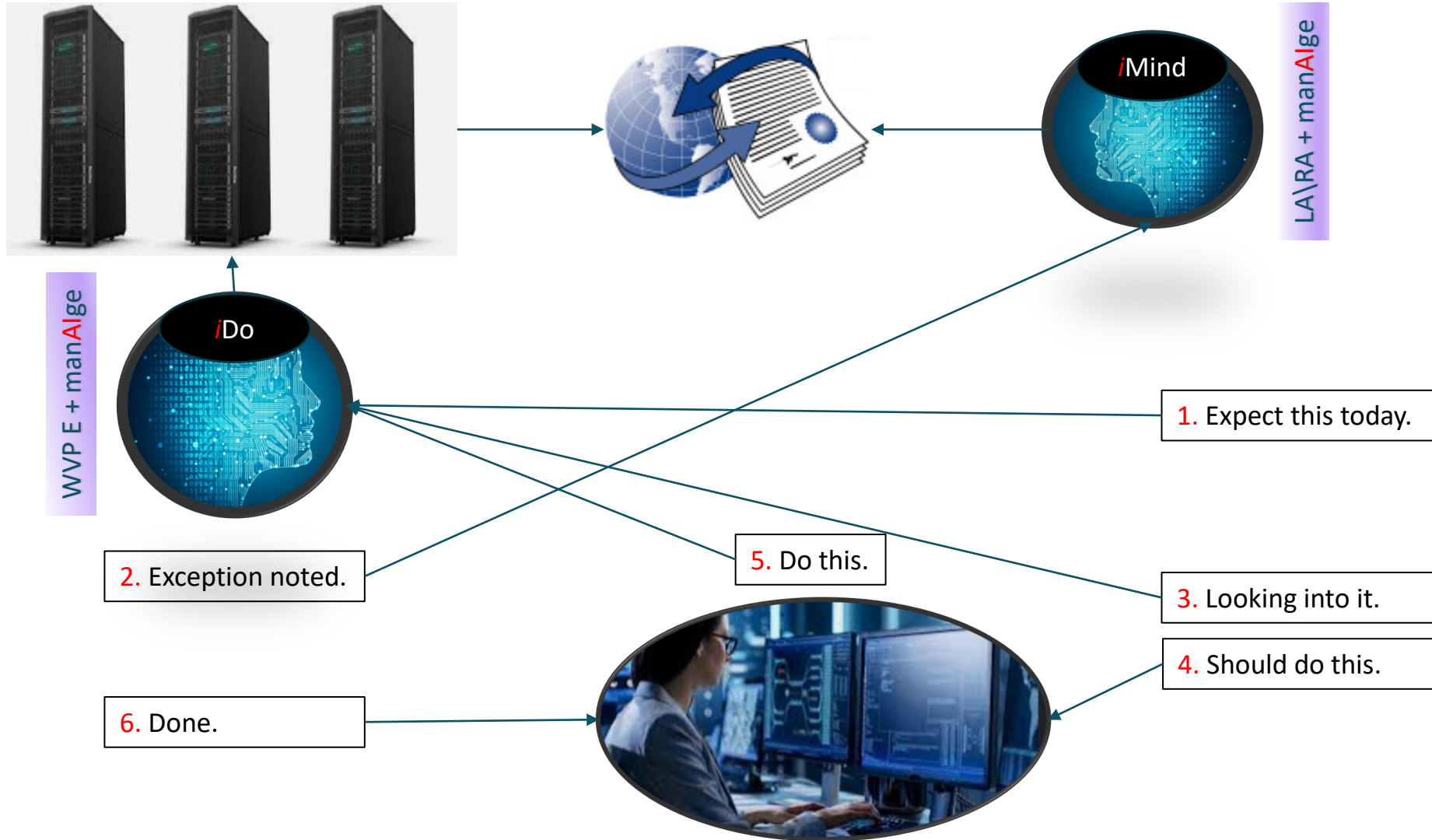
6. I'll log this and tell the boss.

2. Looking into it.

3. Got it; Do this.

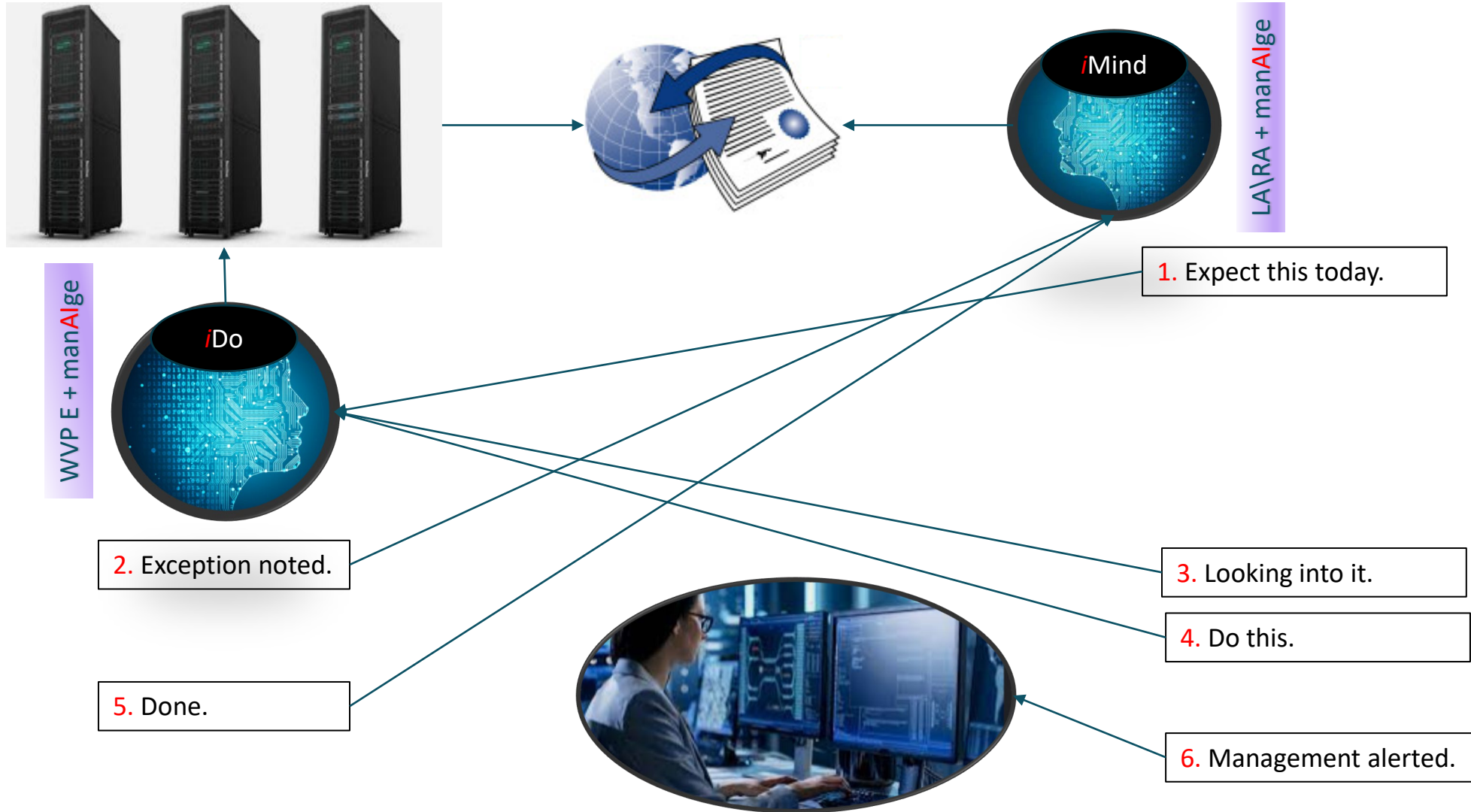
7. Me too.





iManAIge

I trust you



iManAlge



- 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 Q4-2024 at 3 customer sites.





- ✓ Human oversight and overwrite: **ALWAYS**.
- ✓ Solution options and command constructions are dynamic.
- ✓ A computer is a computer, is a computer.
- ✓ Initial textbook solutions are given, but *iManAlge* continuously gets smarter.
- ✓ *iManAlge* community can share newly gained knowledge.
- ✓ Multiverse analytics automatically avoid pitfalls.



HPE NonStop + IBM zOS

The screenshot displays a web application interface. In the foreground, a modal window titled "Add Server" is open, featuring a close button (X) in the top right corner. The modal contains the following fields and options:

- Platform selection: NonStop and zOS
- System Name: A text input field.
- System Serial: A text input field.
- Time Zone: A dropdown menu with the text "Select a Time Zone" and a downward arrow.
- Database: A dropdown menu with the text "Select a Database", a downward arrow, and a blue "+" button.
- License Key: A text input field.
- Controller Endpoint: A text input field.
- Port: A text input field.

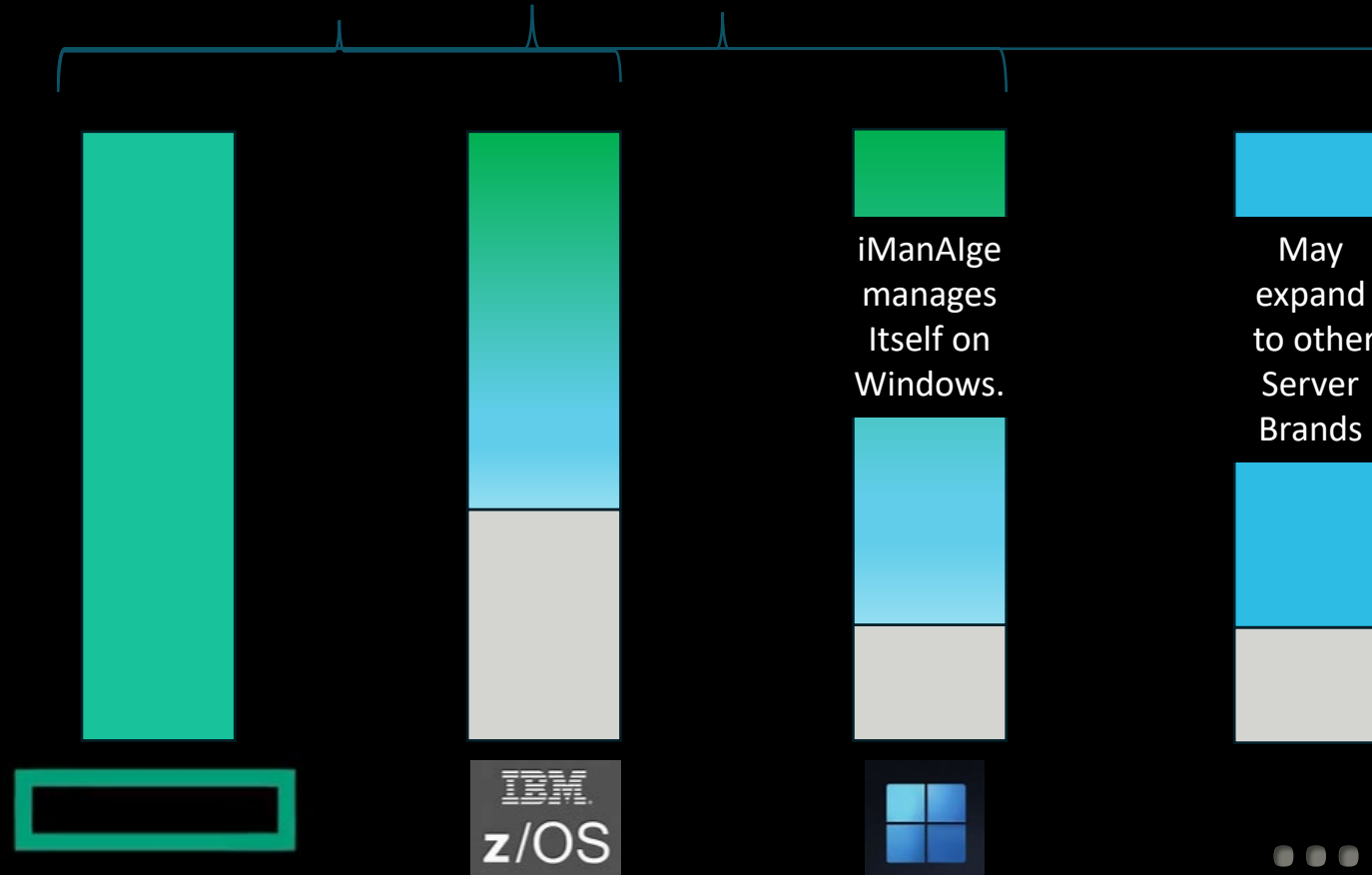
In the background, a server list table is visible. The table has a "Serial" column with a sort icon (up and down arrows) and a "Notes" column. The first three rows of the table contain the serial numbers 078578, 080627, and 081686. Each row in the "Notes" column has two circular icons: a green one with a pencil (edit) and a red one with a trash can (delete). A blue "+ Add Server" button is located in the top right of the table area. A blue gear icon (settings) is visible in the bottom right corner of the interface.

Hybrid





Majority of iManAlge work can be used on other platforms



Integration options.

Web ViewPoint
Enterprise

Local Analyst

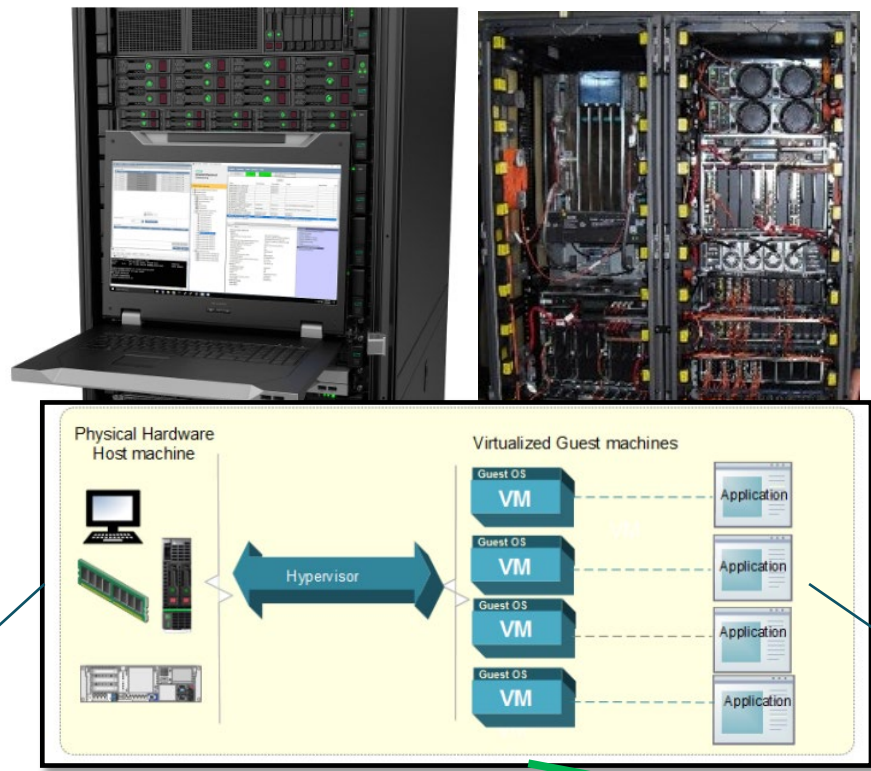


One more thing...



VMBridge – Seamlessly navigate VNS and VMware

PATENT PENDING



WVP E + VMBridge

WVP E



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: ESXi Host (orange), Virtual NonStop (vNS) (green), VMs (blue)



iManAIge

Khody Khodayari

Khody@idelji.com

