

# SAP on Cloud End-to-End Migration and Automated IT Operations





## **Our Profile**

- 25+ years of global SAP Technical solutions
- Cloud deployment, Certified Migration, Remote Management
- Lower TCO with OPEX vs CAPEX
- Focused end-to-end on:
  - Automate IT operation processes, provisioning, DevOps
  - Monitor Service discovery, Application Performance Management
  - Manage migration, life-cycle, orchestrated operations
  - Optimize Well-Architected Framework (Cost Optimization, Operations Excellence, Performance Efficiency, Reliability & Security)

"Linh/OZSoft has been an asset to us all along our SAP-Azure journey but today we hit a key milestone on the platform team that lays the foundation of Disaster Recovery readiness for not only cFin, but also ECC Migration systems. Linh's contributions are too numerous to mention over the year. This one exemplifies the selfless and comprehensive commitment, collaboration, and delivery for Chevron."

**Rich Bernat – SAP Technical Services Lead at Chevron** 

SAP S/4HANA (Central Finance, Digital Core) on Microsoft Azure

"It has been a pleasure working with the OZSoft team. You guys have built a rocket ... this thing flies! You made this a success!"

Jordi Conrado, VP of IT – ADP

SAP Parallel Upgrade & Migration of 16 TB ECC System on Oracle RAC

# About us

Est. 1996 by SAP Basis experts, HQ in Silicon Valley, CA. Delivering End-to-End SAP Technical Services and Enterprise IT Operations Automation **Platform** 

High profile SAP customers and partners:





















"Thanks to the IT-Conductor team for the great support and partnership on successful Zuellig Pharma SAP on HANA journey, migrating and managing the world's largest SAP HANA on public cloud infrastructure running on Microsoft Azure"

**Siva Prasad - Account Director at T-Systems Singapore** SAP Applications Migration and Monitoring on Microsoft Azure



## > SAP to Cloud Migration Journey

#### **Discover**

**Monitor source** environment

## Distill

**Generate source** environment performance and configuration baseline

## Design

- Map to target best practices cloud architecture
  - Design provisioning templates and migration approach

## **Develop**

- **Deployment** plan
- Customize automation templates
- **Technical** validation plans

## **Deploy**

- **Provisioning**
- **Migration**
- Lifecycle Management
- **Operations** automation

#### **On-Prem**



Storage Replication | DB Replication | Data Migration | VM Migration

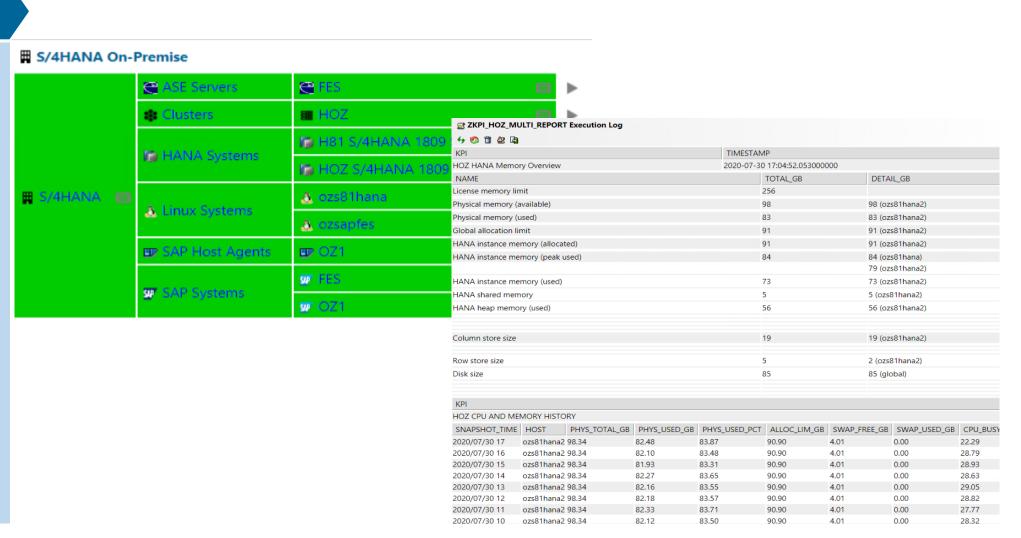




## > SAP to Cloud Migration - Discover

### **Discover**

- **IT-Conductor Patent-pending** platform for **Agent-less full** stack monitoring and automation
- Collect performance and configuration data over analysis period
- 50% less time and efforts in hours

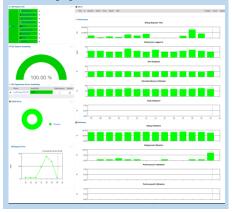


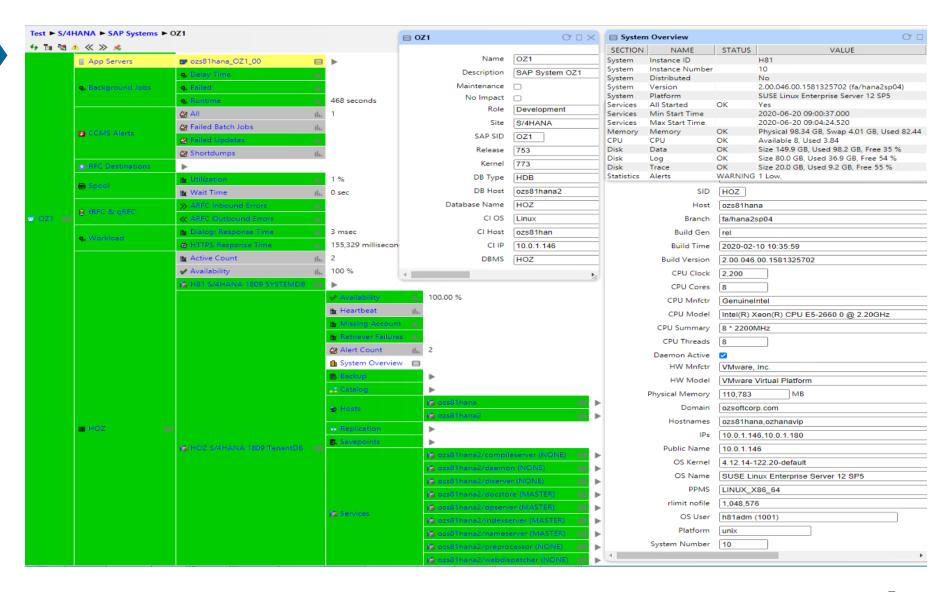


## > SAP to Cloud Migration - Distill

### Distill

- **Generate source** environment performance and configuration baseline
- Git repo for reporting templates
- Data driven approach







## > SAP to Cloud Migration - Design

## Design

- Map to target best practices Wellarchitected Framework
- Design provisioning templates and migration approach
- **Purpose built** for SAP infrastructure
- **Optimized for** remote delivery to worldwide customers

Landscape ABC			pe Environment Production	Type Database	VM Size Standard_D8s_v3 (8 CPU, 32GB)	Quantity 1	Standard Option					
		System Type					PA	YG (\$)	1YR RI	(\$)	3 Y	R RI(\$)
	ECC Prod	ECC 6					\$	626.3	\$ 51	3.9	\$	444.
	ECC Prod	ECC 6	Production	Application Servers	Standard_D2s_v3 (2 CPU, 8 GB)	2	\$	411.7	\$ 35	5.5	\$	320.
	ECC Prod	ECC 6	Production	Storage	3TB (3 X P30)	1	\$	506.6	\$ 50	6.6	\$	506.
	ECC Non Pro	ECC 6	Non Production	Database	Standard_D2s_v3 (2 CPU, 8 GB)	3	\$	617.6	\$ 53	3.3	\$	481.
	ECC Non Pro	ECC 6	Non Production	Storage	5 TB (5 X E30)	1	\$	237.0	\$ 23	7.0	\$	237.
	ECC Prod	ECC 6	HA DR	Database	Standard_D8s_v3 (8 CPU, 32GB)	1	\$	724.2	\$ 51	3.9	\$	444.
	ECC Prod	ECC 6	HA DR	Application Servers	Standard_D2s_v3 (2 CPU, 8 GB)	2	\$	460.8	\$ 35	5.5	\$	320.
	ECC Prod	ECC 6	HA DR	Storage	3TB (3 X P30)	1	\$	506.6	\$ 50	6.6	\$	506
DEF	ECC Prod	ECC 6	Production	Database	Standard_E4s_v3(4 CPU, 32GB)	1	\$	476.0	\$ 38	2.1	\$	333.
	ECC Prod	ECC 6	Production	Application Servers	Standard_D4s_v3 (4CPU, 16GB)	1	\$	411.7	\$ 35	5.5	\$	321.
	ECC Prod	ECC 6	Production	Storage	1 TB (1 X P30)	1	\$	179.6	\$ 17	9.6	\$	179
	ECC Non Pro	ECC 6	Non Production	Database	Standard_E2s_v3 (2CPU, 16GB)	1	\$	238.0	\$ 19	1.1	\$	166
	ECC Non Pro	ECC 6	Non Production	Database	Standard_D2s_v3 (2 CPU, 8 GB)	2	\$	411.7	\$ 35	5.5	\$	320
	ECC Non Pro	ECC 6	Non Production	Storage	1.5 TB (1 E30 + 1 E20)	1	\$	149.2	\$ 14	9.2	\$	149
	ECC Prod	ECC 6	HA DR	Database	Standard_E4s_v3(4 CPU, 32GB)	1	\$	544.3	\$ 38	2.1	\$	333
	ECC Prod	ECC 6	HA DR	Application Servers	Standard_D4s_v3 (4CPU, 16GB)	1	\$	460.6	\$ 35	5.5	\$	321
	ECC Prod	ECC 6	HA DR	Storage	1 TB (1 X P30)	1	\$	179.6	\$ 17	9.6	\$	179
GHI	ECC Prod	ECC 6	Production	Database	Standard_E4s_v3(4 CPU, 32GB)	1	\$	476.0	\$ 38	2.1	\$	333
	ECC Prod	ECC 6	Production	Application Servers	Standard_D4s_v3 (4CPU, 16GB)	1	\$	411.7	\$ 35	5.5	\$	321
	ECC Prod	ECC 6	Production	Storage	400 GB (1 P20)	1	\$	104.6	\$ 10	4.6	\$	104
	ECC Non Pro	ECC 6	Non Production	Database	Standard_E2s_v3 (2CPU, 16GB)	1	\$	238.0	\$ 19	1.1	\$	166
	ECC Non Pro	ECC 7	Non Production	Database	Standard_D2s_v3 (2 CPU, 8 GB)	2	\$	411.7	\$ 35	5.5	\$	320
	ECC Non Pro	ECC 8	Non Production	Storage	1 TB (1 E30)	1	\$	83.4	\$ 8	3.4	\$	83
	ECC Prod	ECC 6	HA DR	Database	Standard_E4s_v3(4 CPU, 32GB)	1	\$	544.3	\$ 38	2.1	\$	333
	ECC Prod	ECC 6	HA DR	Application Servers	Standard_D4s_v3 (4CPU, 16GB)	1	\$	460.6	\$ 35	5.5	\$	321
	ECC Prod	ECC 6	HA DR	Storage	400 GB (1 P20)	1	\$	104.6	\$ 10	4.6	\$	104
JKT	ECC Prod	BW	Production	Database	Standard_E8s_v3(8 CPU, 64GB)	1	\$	754.8	\$ 56	7.1	\$	470
	ECC Prod	BW	Production	Application Servers	Standard_E2s_v3 (2CPU, 16GB)	1	\$	238.0	\$ 19	1.1	\$	166
	ECC Prod	BW	Production	Storage	2 TB (2 X P30)	1	\$	343.1	\$ 34	3.1	\$	343
	ECC Non Pro	BW	Non Production	Database	Standard_DS12_v2 (4 CPU, 28 GB)	1	\$	590.6	\$ 40	8.9	\$	351
	ECC Non Pro	BW	Non Production	Storage	2 TB (2 X E30)	1	\$	121.8	\$ 12	1.8	\$	121
	ECC Prod	BW	HA DR	Database	Standard_E8s_v3(8 CPU, 64GB)	1	\$	891.5	\$ 56	7.1	\$	470
	ECC Prod	BW	HA DR	Application Servers	Standard_E2s_v3 (2CPU, 16GB)	1	\$	272.1	\$ 19	1.1	\$	166
	ECC Prod	BW	HA DR	Storage	2 TB (2 X P30)	1	\$	343.1	\$ 34	3.1	\$	343
MNO	GRC Prod	GRC	Production	Database	Standard_D2s_v3 (2 CPU, 8 GB)	1	\$	205.9	\$ 17	7.8	\$	160
	GRC Prod	GRC	Production	Storage	300 GB (1 P20)	1	\$	104.6	\$ 10	4.6	\$	104
	GRC Non Pro	GRC	Non Production	Database	Standard_D2s_v3 (2 CPU, 8 GB)	1	\$	205.9	\$ 17	7.8	\$	160
	GRC Non Pro	GRC	Non Production	Storage	300 GB (1 E20)	1	\$	65.8	\$ 6	5.8	\$	65
PJ1	GRC Prod	Ent Portal	Production	Database	Standard_D2s_v3 (2 CPU, 8 GB)	1	S	205.9	\$ 17	7.8	ė	160.



HANA Node 1

hdb1-0 -10.100.1.10

VM:E4s v3

DISK 155G: /hana/shared 25G /hana/data 75G /hana/log 35G /usr/sap 15G /sapmnt 5G



10.100.2.4



HNW\_scs-alb

10.100.3.5

Support Pricing Summary

ASCS

hnwscs00 -10.100.3.10

VM:B2s

DISK 64G: usr/sap 15G /sapmnt 5G /install 35G

= APP0

hnwapp00 -10.100,3.14

VM:B2ms

DISK 64G: /usr/sap 15G /sapmnt 5G /install 35 G

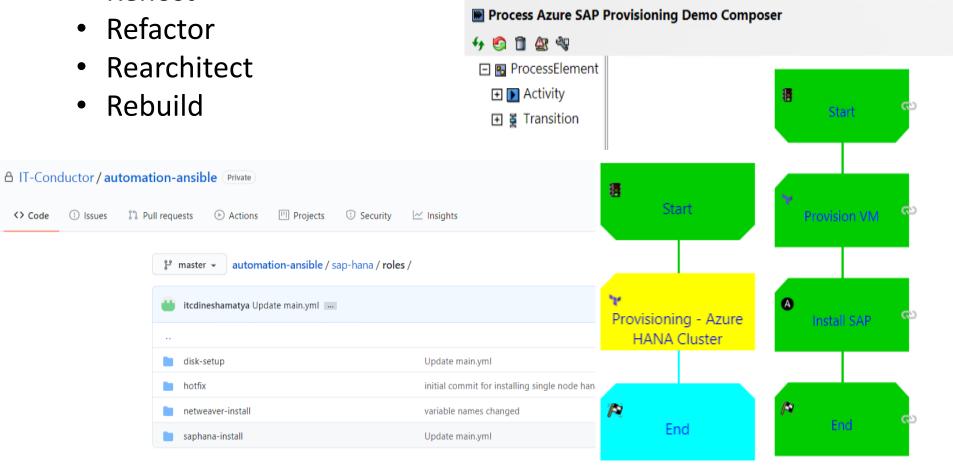


## > SAP to Cloud Migration - Develop

## Develop

- **Deployment** plan - phase approach based on priority and complexity
- **Customize** automation templates -Infrastructure as Code
- **Technical** validation plans





IT-Conductor 6.55

Configuration Administration

Dashboards

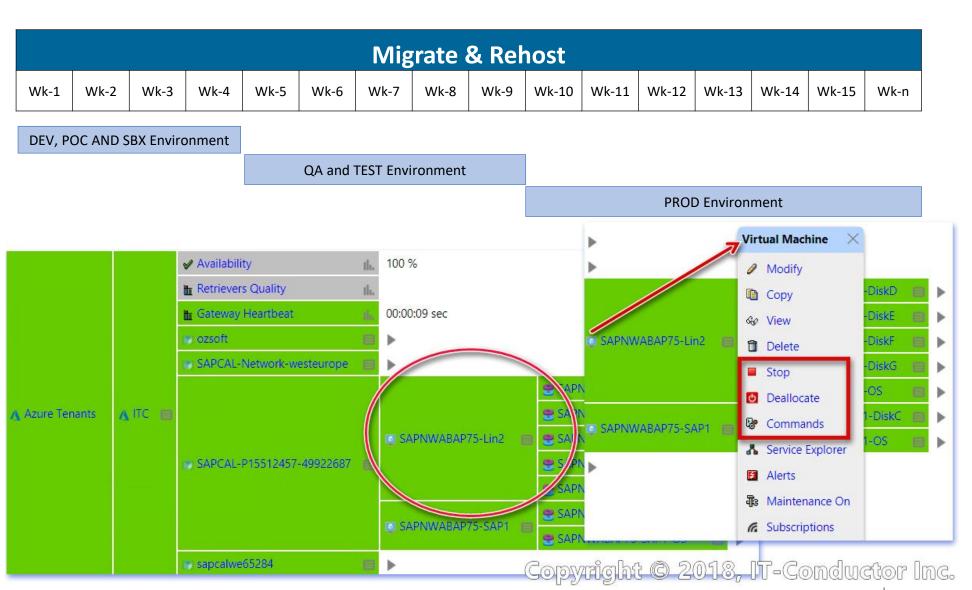
Management



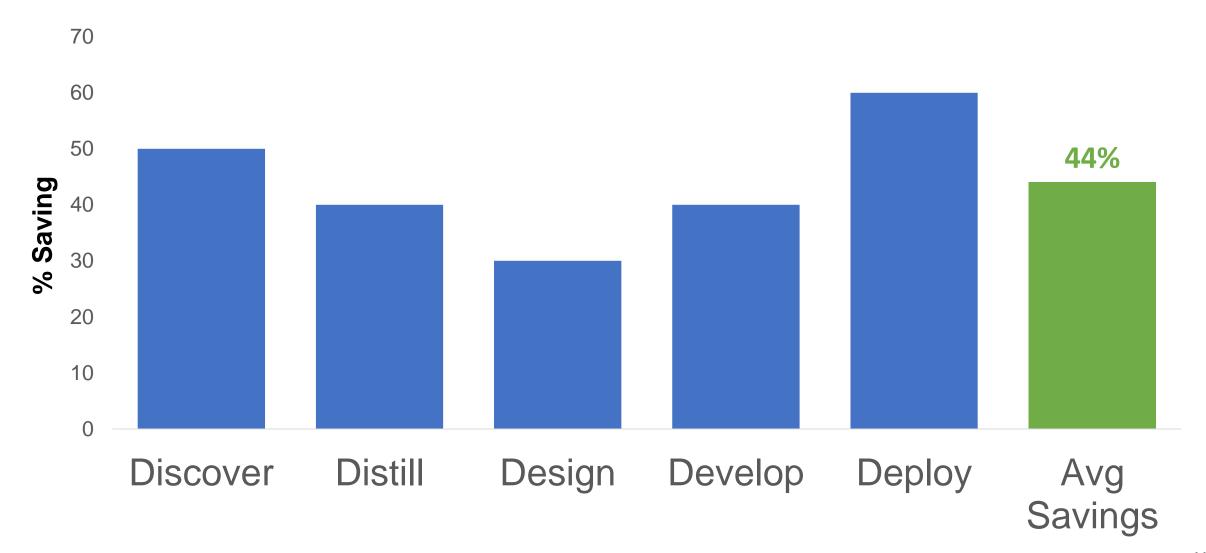
## > SAP to Cloud Migration - Deploy

## **Deploy**

- **Provisioning -DevOps**
- **Migration**
- **Testing**
- Lifecycle Management
- **Operations** automation
- **Continuous Optimization** of Workload based on performance data

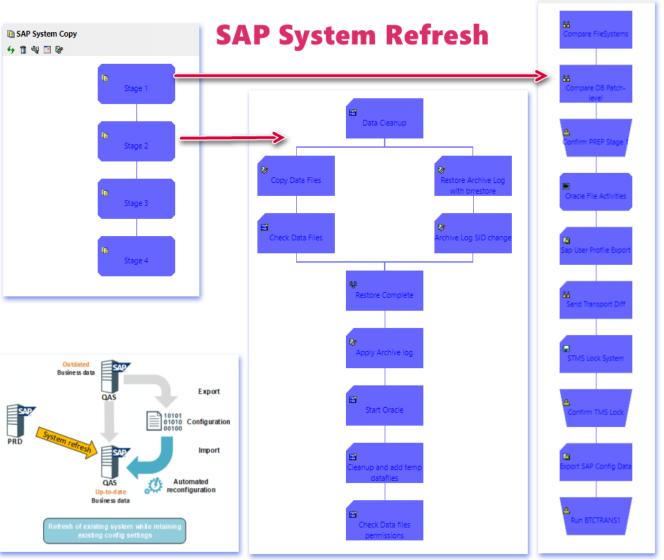


# Time Savings with OZSOFT Expertise and IT-Conductor Automation



## Xey Differentiator for End-to-End IT Enterprise Automation

- Infrastructure as Code Automation
- Migration Assessment (Baseline & Profiling)
- Routine IT Operation Process Automation
- Automate Root-cause Analysis
- Proactive Performance Management & ITSM Integration
- Global Trusted Advisor Network



## Delivering Unique Capabilities for SAP on Cloud that other Competitors Wished they Have

- Agentless platform works with any customer environment in minutes
- Accelerate remote delivery globally, agile framework, highly scalable
- 24x7 continuous access to data to validate sizing, utilization and configuration throughout PoC and migration effort, leads to more accurate and efficient target environment
- Engage customers in any steps along their cloud journey starting with remote management of their on-prem environment. Leads to future opportunity pipeline even for customers not yet ready to migrate.
- Performance validation assurance as a service
- Automate Intelligently with integration into open standards such as Git,
   Terraform, Ansible, Azure API, REST API, JSON, native application protocols
- IT process orchestration can tackle highly complex tasks like system refresh and long running migrations.

















## Leverage IT-Conductor automation and ensure client success by aligning with SAP, Cloud, and OZSOFT

**User Friendly** Lower Cost of Operation

Fully Configurable Low Risk Implementation

**Environment Versatility** Accelerate with Automation



## > SAP Basis Experts in Operations and Automation

#### Plan

#### **Business case**

- SAP Sizing
- **TCO Calculation**
- **Azure Architecture** Blueprint
- **Platform Availability Matrix**
- **Installation Planning**
- **OS/DB Migration** Window
- **Interface Integration Planning**
- Service Level **Management Design**
- **Proof of Concept (POC) Specification**

#### **Proof**

- Installation & Landscape Configuration
- Sample OS,DB & **Interface Migration**
- **Performance Load Testing**
- **Optimization based on Load Testing findings**
- **Operation readiness** training and testing
- Dry run (Mock go-live)
- **Business Validation**

## **Perform**

- **Monitoring &** Automation **Implementation**
- Acceptance **Performance Load Testing**
- **Go-live/DB Migration**
- **Optimization based** on Load Testing findings
- Security Optimization / **Hardening**
- **Final Business** Validation
- Cutover

### **Perfect**

- Lifecycle Management
- Continuous Monitoring & **Automation Optimization**
- Continuous **Performance Optimization**

## **SAP on Cloud Customer Successes**

#### ServiceNow

- Environment ECC, HANA, BPC, GRC, Solman, BOBJ/DataServices, PO
- Azure Site Recovery (ASR)
- Replication Migration

#### Chevron

- S/4HANA Brownfield 30 systems with S/4, MDG, SLT, SAP DS, Smart Data Integration
- Legacy SAP migration 70 systems
- Infrastructure as Code automation with Ansible
- Azure Netapp Filesystem (ANF) for Oracle and HANA, snapshot backups
- HA with Pacemaker Clustering on RHEL
- DR with ASR and Replication
- BYOK Encryption with Thales VTE and SAP Data Custodian

#### T-Systems / ZuelligPharma

- On-prem 40 systems migration of SAP on DB2/Linux to HANA/Linux SLES
- Application Performance Management

#### Brillio / Coats

SAP on HANA complete migration, optimization and life cycle management

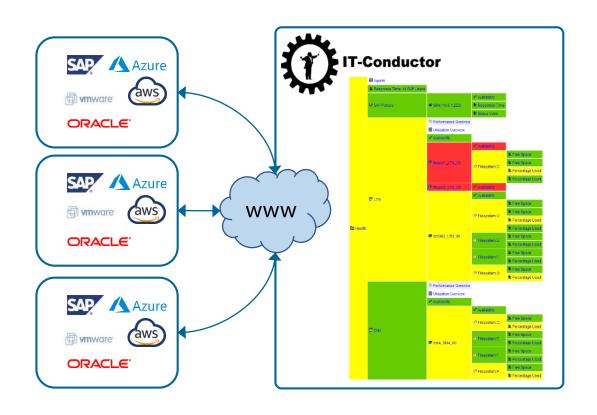
## > Automated IT Service Management

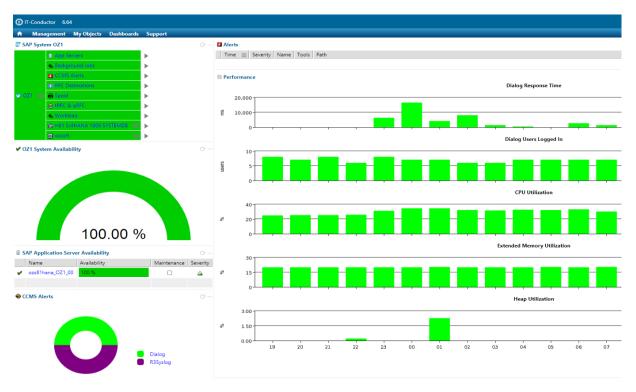
**Public Cloud** 

MANAGE **M**ONITOR **O**PTIMIZE **A**UTOMATE **IT Process Application & Application** Reporting & **Automation &** Infrastructure Service **Analytics** Infrastructure as Monitoring Management Code **Managed APM Smart IT Services Monthly Subscription** for the **On-Premise** per Managed System **Private Cloud** 

Enterprise

## > SaaS Platform to Reduce TCO by up to 70%





- Enterprise Grade Service Delivery
- End-User Experience Monitoring
- App & Infrastructure Monitoring
- Impact Analysis

- Root Cause Analysis
- Notification
- Automation
- Provisioning

## **The Executive Team**



#### Linh Nguyen: Co-Founder IT-Conductor, CEO

- Royal Melbourne Institute of Technology (RMIT) Double degree in Computer Engineering & Computer Science
- 25+ years of international IT consulting experience
- Founder of OZSoft Consulting in 1996, specializing in SAP Performance & Automation software and consulting



#### David Stavisski: Co-Founder IT-Conductor, President/CTO

- 30+ years in computer software and solutions development specializing in Enterprise Systems and IT Service Management, and Software Architecture design
- Held R&D management and Architect positions at leading Systems Management Vendors such as BMC and Quest
- Long track record of successful product delivery and innovation at various companies

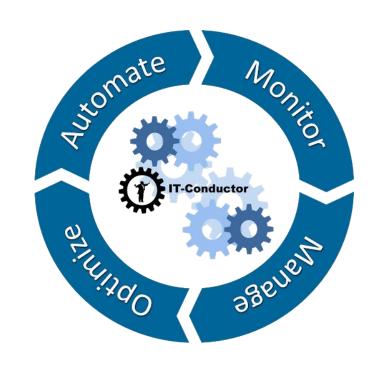
#### We're experienced leaders:

- 28+ years of SAP and Systems Management Expertise
- Global track record of innovation of software and services

## **Customer Success**

Customer	Value
ADP	Very large scale SAP ECC Basis Upgrade & Migration
AMGEN	Large scale SAP ECC & BW Upgrade & Migration
IBM	Partner in delivering years of Turnkey SAP Migrations for IBM customers
MEDTRONIC	SAP Availability & Performance Management
CHEVRON	SAP on Azure S/4HANA Digital Core Architecture and Deployment. HA/DR. BYOK Encryption. Compliance.
T-SYSTEMS	SAP on Azure Cloud Migration, Monitoring and Application Performance Management

<sup>\*</sup> Reference checks are welcome but need to be coordinated through Linh Nguyen



## Automated for









itconductor.com ozsoft-consulting.com



Linh Nguyen

David Stavisski

<u>linh.nguyen@itconductor.com</u>

david.stavisski@itconductor.com

(408) 982-7797

(949) 639-9416