

# How to Accelerate Your End-to-End SAP on AWS Migration Journey?

08/15/2023

Linh Nguyen, CEO at IT-Conductor, Inc

Antonio Santana, Migrations SA at AWS

# Agenda

- Introduction
- Benefits of IT-Conductor Automated Migration Services
- Features of IT-Conductor Automated Migration Services
- Demo
- Call to Action
- Customer Success Stories
- Survey

## Who We Are

IT-Conductor is a Software-as-a-Service automation platform for remote agentless monitoring, performance management, and IT operations.

IT-Conductor was officially founded in 2014 after more than ten years of building a cloud-based automation platform. The Mission is to enable customers to **“Minimize Noise > Maximize Performance”** with the ability to monitor, manage, and orchestrate enterprise IT through Intelligent Automation.

Migration and Modernization ISV Competency



# Introduction to IT-Conductor Automated Migration Services

- **Patented** cloud-based automation platform offers a comprehensive integrated suite of tools and services designed to migrate SAP to AWS and manage it end-to-end.
- Our **team of experts** has years of experience in cloud migration, and we understand the challenges that come with moving your business to the cloud. That's why we've developed a platform that simplifies the process and makes it easier than ever to get started with AWS.
- **World class customer service** and close collaboration with our customers and partners to ensure their success. Whether you are an enterprise, managed service provider, or system integrator, IT-Conductor has the service platform to help you achieve your cloud journey to AWS with automation



# Why SAP Customers Prefer AWS & IT-Conductor

## Scalability and Flexibility:

- Ability to easily scale computing resources up or down based on demand.
- Flexible infrastructure that accommodates varying workloads and growth.

## Global Availability:

- Extensive global infrastructure with data centers in multiple regions.
- Enables deploying SAP applications closer to users for reduced latency and improved performance.

## Integration Capabilities:

- Seamless integration with SAP applications, enhancing functionality.
- Leverage additional AWS services such as data analytics, machine learning, and IoT.

## Cost Optimization:

- Flexible pricing models, including pay-as-you-go, reserved instances, and spot instances.
- Cost optimization options based on usage patterns, reducing infrastructure expenses.

## High Availability and Reliability:

- AWS's reliable infrastructure ensures minimal downtime and high availability.
- Ensures uninterrupted operation of critical SAP applications.

## Performance and Efficiency:

- Advanced compute and storage capabilities to handle large amounts of data efficiently.
- Enhanced performance through AWS's optimized infrastructure.

# Most Common Challenges in Cloud Migration

## Data assessment

- Identifying and classifying the data that needs to be migrated and **assessing** the **compatibility** of existing applications with cloud environments and identifying any dependencies that might need to be addressed.

## APM

- **Application performance** may degrade during the migration process due to factors such as network latency, increased data transfer, or differences in infrastructure configurations between on-premises and cloud environments. Ensuring optimal performance throughout the migration can be demanding.

## Architecture design

- Designing a **cloud architecture** that meets your organization's scalability, availability, and performance needs. Adapting existing on-premises architecture to a cloud-native or cloud-compatible architecture can be challenging.

## Data migration

- Moving large volumes of data from on-premises systems to the cloud while **minimizing downtime**, ensuring data integrity, and maintaining data consistency.

## Validation



- Ensuring smooth integration of migrated applications and services with existing systems, as well as performing thorough testing to identify and resolve any compatibility or **performance issues**.

# Benefits of IT-Conductor Automated Migration Services

- **Accelerate your SAP migration journey** with IT-Conductor's automated migration platform, certified as AWS Migration and Modernization Competency solution
- Our **seamless integration** of automated migration tools and AWS cloud infrastructure brings numerous benefits to your organization. Experience reduced downtime, increased speed, cost savings, enhanced security, scalability, simplified management, and streamlined testing and validation.
- With IT-Conductor and AWS, achieve a **smooth, efficient, and repeatable SAP migrations**, ensuring reduced risks, downtime, and unlocking the full potential of the cloud.



Scalability



Cost



Increased Agility and Flexibility



Lower Cost & Effort  
Disaster Recovery

# Features of IT-Conductor Automated Migration Services

- **Integrated platform:** a wide range of features designed to make cloud migration as easy as possible. These include automated discovery and assessment of your current environment, automated provisioning of AWS resources, and automatic configuration of your applications and data migration.
- **Life-cycle management:** monitoring, SLA management, and IT operations automation of your AWS environment to ensure optimal systems availability and performance.



Our automation approach reduces the cost of IT Infrastructure, application management systems, upgrade, and migration.



Easy deployment of applications in our tool for monitoring insights

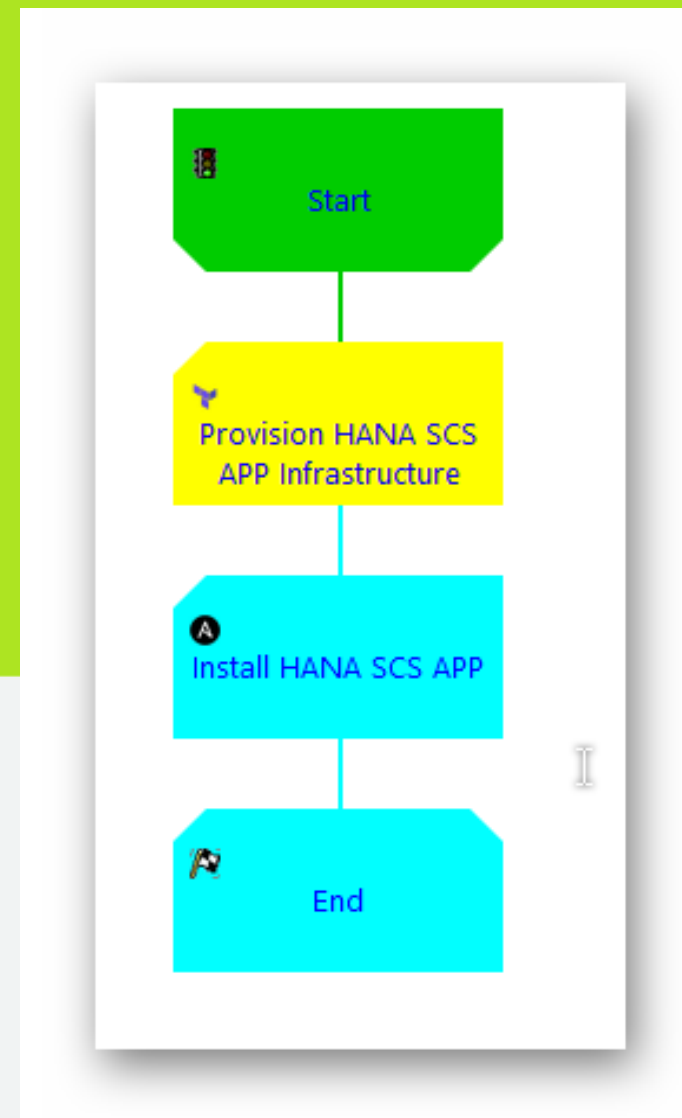


Greater agility and compliance in the delivery of the company's strategy and scalability to quickly manage the growth plan



# End-to-End Automated Migration to Cloud

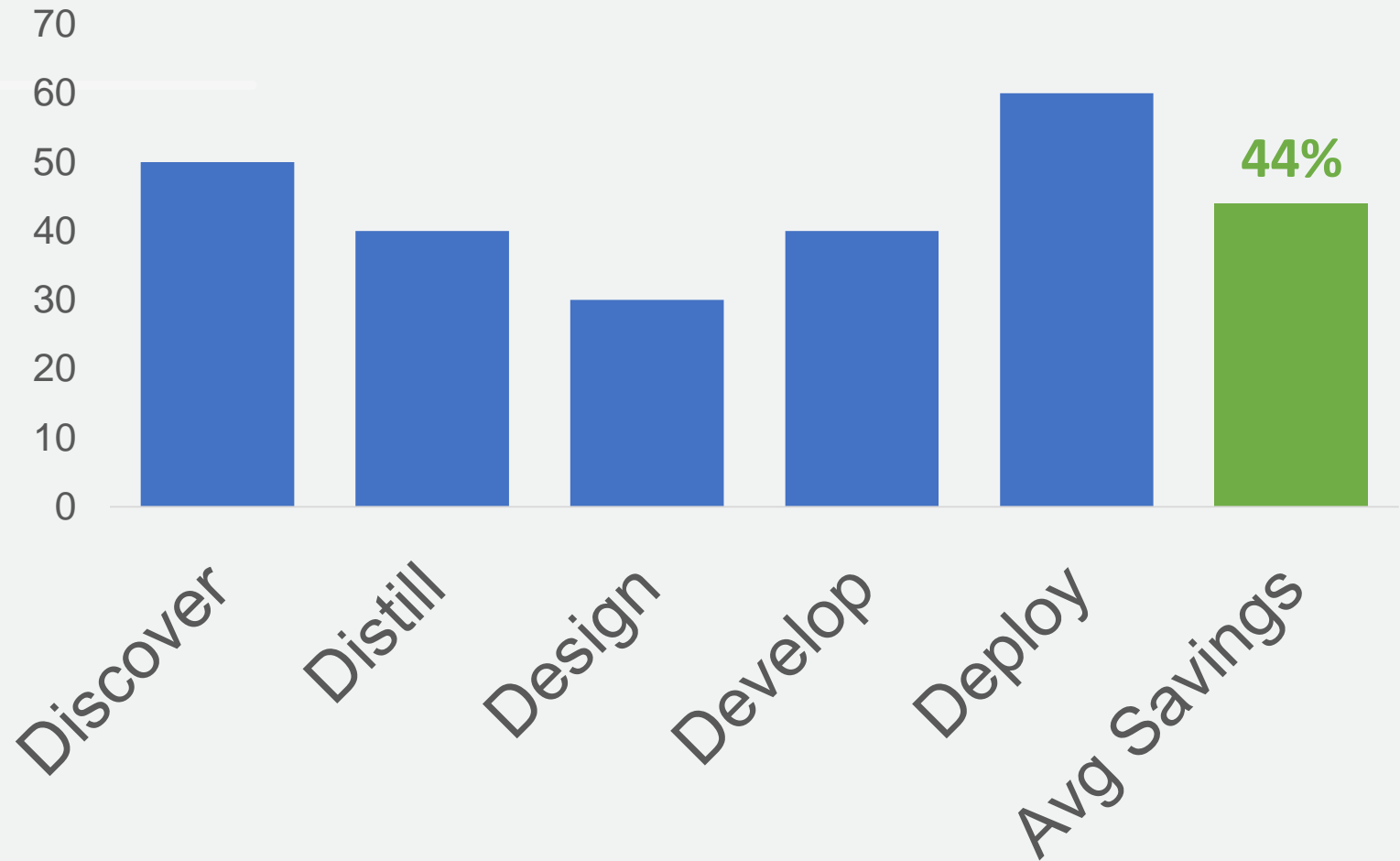
- For best practices, we provide **process definitions that can be used as standard automation workflows** for migrating databases to the cloud.
- **Minimize dependency on scarce resources**, eliminate the need for technical expertise or training people to manually perform the migration activities step-by-step.
- Go from Assessment to Go-live **40% faster** on average.



# How it Works

- **Discovery** of source systems leveraged automation through our LMBD tool
- **Distilling** the source environment to the on-premises baseline
- **Design** of the target environment and migration approach
- **Developing** the customization of best-practices automation templates for provisioning via Terraform and Ansible playbooks
- **Deploying** the automation to create target systems and migrating data from on-premises to Cloud

## % Time & Effort Savings with IT-Conductor



# LMDB Discovery

**IT-Conductor 6.72**

Actions Configuration Administration Management

IT-Conductor Inc > Tenants > OZSoft > SAP Landscape

**SAP Landscape**

Health  
Event Schedule  
Landscape Overview

**System: S4H (ABAP)**

Hosts

FQDN Host	Number of CPUs	CPU Rate	Virtual RAM, MB
ozs4nana.ozsoftcorp.com	8	2,200	166,111

DB Component

**System: S72 (ABAP)**

Hosts

FQDN Host	Number of CPUs	CPU Rate	Virtual RAM, MB
ozsolman72.ozsoftcorp.com	8	2,494	34,927

DB Component

S72 type: SYB, version: 16.0.02.05

DB Host

FQDN Host	Number of CPUs	CPU Rate	Virtual RAM, MB

**System: CR2 (ABAP)**

Hosts

FQDN Host	Number of CPUs	CPU Rate	Virtual RAM, MB

**IT-Conductor 6.16**

Management Dashboards My Objects Support

Test > SAP Landscape

**C73 Software Components**

Name ↑	Tools	Patch Level	Creation Date
ADOBE DOCUMENT SERVICES 7.50		0	06/08/2017 09:09:17 PM
AJAX RUNTIME 7.50		0	06/08/2017 09:04:33 PM
BI BASE EXPORT SERVICES 7.50		0	06/08/2017 09:04:02 PM
BI BASE FOUNDATION 7.50		0	06/08/2017 09:09:30 PM
BI BASE SERVICES 7.50		0	06/08/2017 09:04:58 PM
BI UDI 7.50		0	06/08/2017 09:04:35 PM
BI WEBDYNPRO ALV 7.50		0	06/08/2017 09:06:21 PM
BI WEB DYNPRO EXTENSIONS 7.50		0	06/08/2017 09:10:10 PM
BPEM ACCELERATED 7.50		0	06/08/2017 09:09:22 PM
BPEM BASE 7.50		0	06/08/2017 09:09:09 PM
BPEM BUILT 7.50		0	06/08/2017 09:04:59 PM
BPEM COLLABORATION 7.50		0	06/08/2017 09:10:15 PM
BPEM CONTENT 7.50		0	06/08/2017 09:07:35 PM
BPEM CORE 7.50		0	06/08/2017 09:09:45 PM
BPEM FACADE 7.50		0	06/08/2017 09:09:44 PM
BPEM HUMAN INTERFACE MGMT 7.50		0	06/08/2017 09:06:36 PM
BPEM METAMODEL BASIC LIB 7.50		0	06/08/2017 09:05:33 PM
BPEM NWA PLUG INS 7.50		0	06/08/2017 09:04:07 PM
BPEM PORTAL CONTENT 7.50		0	06/08/2017 09:04:59 PM
BPEM WEBDYNPRO UIS 7.50		0	06/08/2017 09:08:36 PM
BPM CU UI 7.50		0	06/08/2017 09:04:53 PM
BRMS BASE 7.50		0	06/08/2017 09:04:02 PM

139 records

Discover - Distill - Design - Develop - Deploy

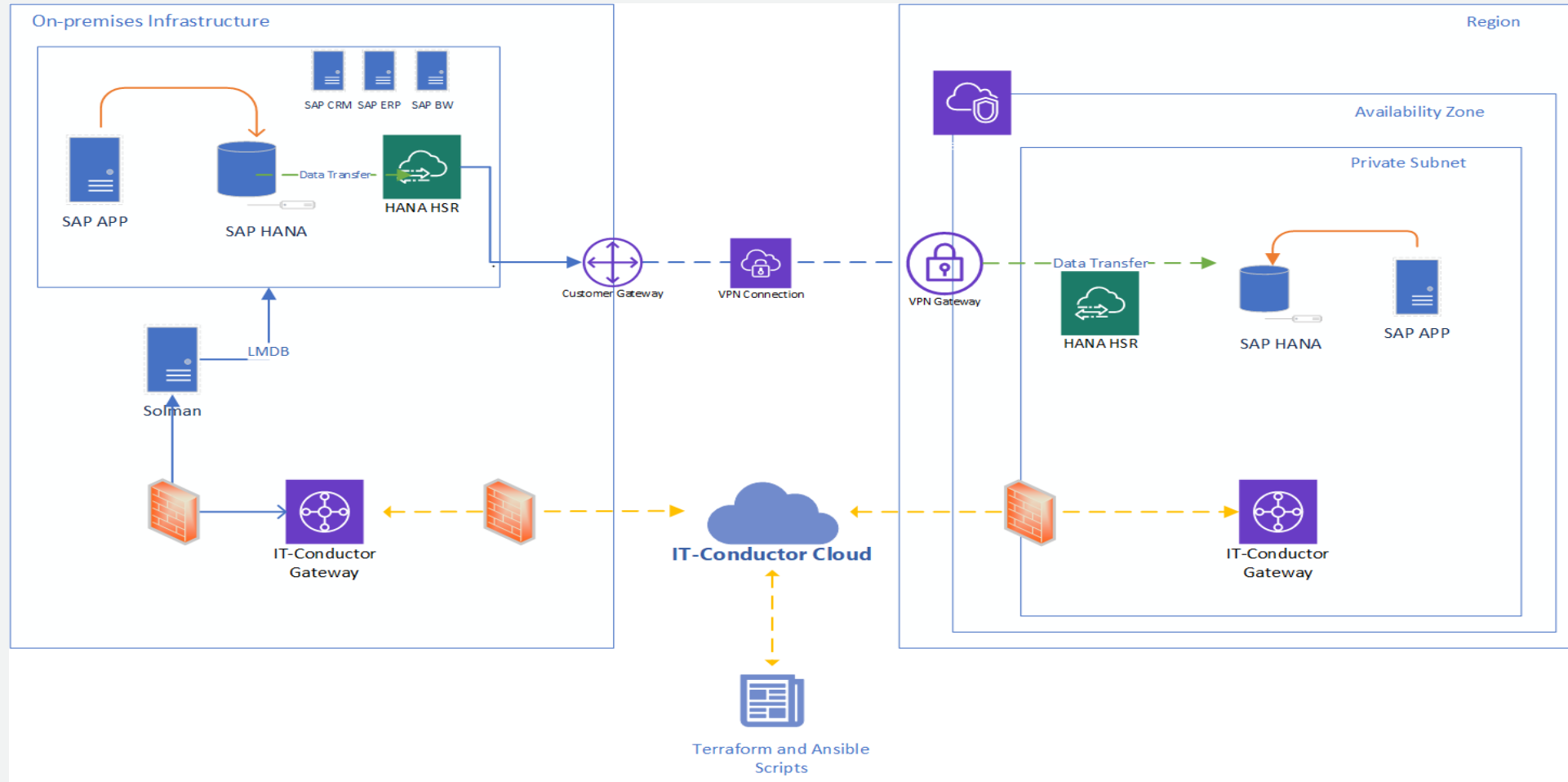
# Application Performance Management



IT-Conductor provides Application Performance Management to guarantee that your applications are in good health and high performance when running applications on the cloud.

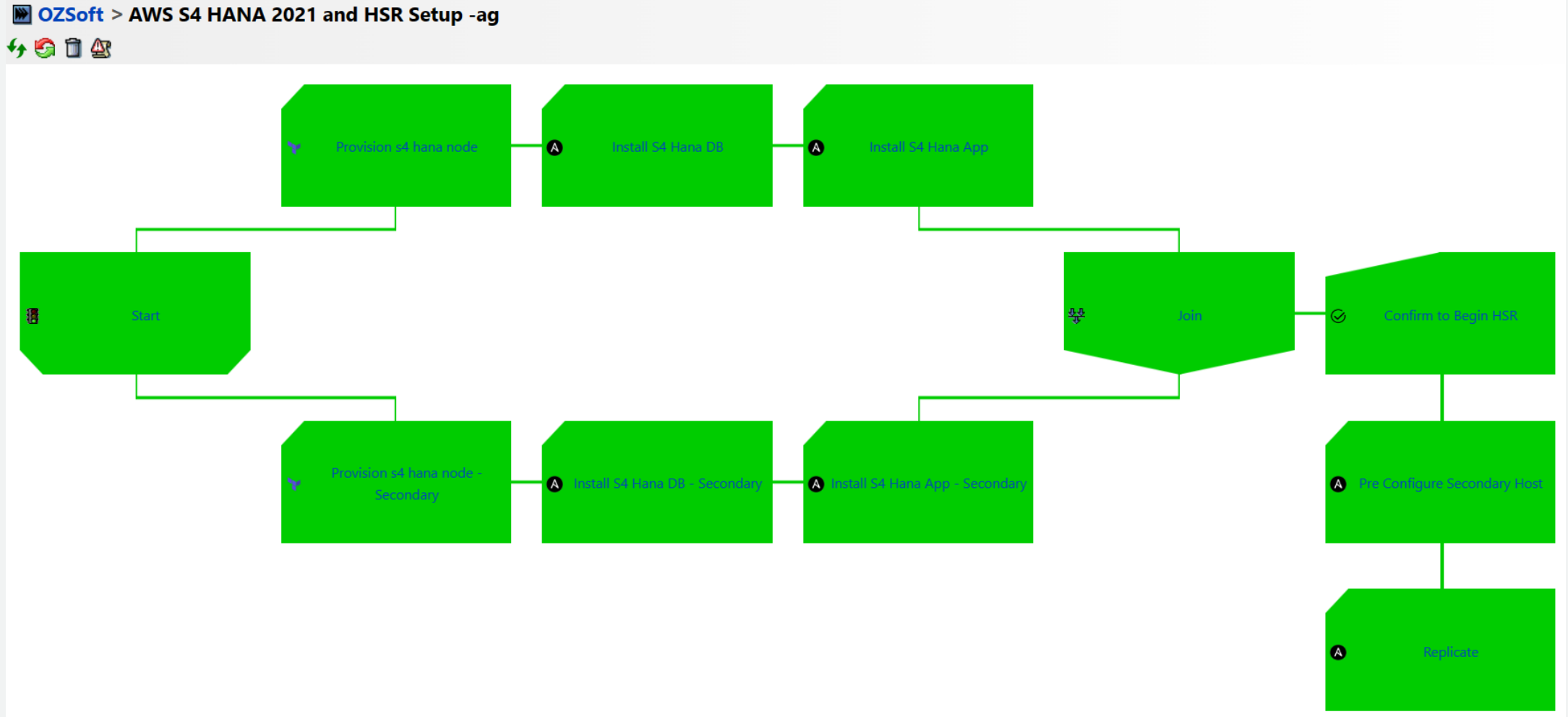
Discover - **Distill** - Design - Develop - Deploy

# Reference Architecture



Discover - Distill - Design - Develop - Deploy

# Execution workflow using IT-Conductor Tool



Discover - Distill - Design - **Develop** - Deploy

# Migration Dashboard

### OZSOFT On-Premise Site

- S/4HANA
  - Ansible Nodes
    - Ansible@OnPre
    - Ansible@OZSoft
  - ASL Servers
    - ozsapcm2.4901
  - BusinessObjects Systems
    - OZBI43.6400
  - Git Servers
    - GitHub
  - Linux Systems
    - ozjavaas74
    - oznwdb2
    - oz000
    - ozsapcm2
    - ozsappo74
    - ozsappo75
  - MaxDB Servers
    - CT3
  - Oracle Databases
    - OOO
    - OZO
    - POZ
  - SAP Systems
    - CT3
    - CR2
    - J72
    - MS1

### Site's Computers

Name	Application	Maintenance	Severity
ozjavaas74	ozjavaas74	<input type="checkbox"/>	<span style="color: green;">▲</span>
OZMSSQL01	OZMSSQL01	<input checked="" type="checkbox"/>	<span style="color: green;">▲</span>
ozsappo75	ozsappo75	<input type="checkbox"/>	<span style="color: green;">▲</span>

### AWS SAP Wizards

HANA 2021 migration to AWS

Configure HANA 2021 and HSR setup on AWS

Oracle Migration to AWS

MSSQL Migration to AWS

Configure MSSQL Backup on AWS

Provision S4 HANA (AWS)

Configure S4 HANA on AWS through Terraform/Ansible

New AWS Region

Create New AWS Region

### Provisioning Jobs

Name	Tools	Work Queue	Start Time
Provision s4 hana node		Terraform-AWS-DEMO	08/12/2023 11
Provision Windows VM on AWS		Terraform-AWS-DEMO	08/11/2023 08
Provision Windows VM on AWS		Terraform-AWS-DEMO	08/11/2023 08
Provision Cloud VM		Terraform-AWS-DEMO	08/08/2023 06
Provision s4 hana node - Secondary		Terraform-AWS-DEMO	06/16/2023 05
Provision s4 hana node		Terraform-AWS-DEMO	06/16/2023 05
Provision AWS VM		Terraform-AWS-DEMO	04/23/2023 09
test terraform demo		Terraform-AWS-DEMO	04/09/2021 08
Provision AWS VM		Terraform-AWS-DEMO	
Provision Windows VM on AWS		Terraform-AWS-DEMO	





### ec2 @ us-east-1

- AWS-DEMO
  - Gateways
  - Volumes
  - VPCs
  - AWS-Gateway
- AWS Account VMs (EC2 Machines)
 

Name	Tools	ID	State	Instance
hana-vm		i-06218c9fa96c1948a	running	r4.4xlarge
oz000-dg		i-010d02772319c36ab	stopped	t3.xlarge
LAB-Gateway-Service-Spot-Unlimited		i-0cc5c102d389c7f85	stopped	t3a.medium
oraclevm2		i-0ba4a14b98d9da644	stopped	r4.4xlarge
DEV_development_environment_Cloud		i-0008b04e9d69855ce	stopped	t2.xlarge
demo2prd-oz3		i-085d95858a1cdd565	stopped	r4.4xlarge
Backup_Gateway		i-0620ae1544218089e	running	t2.medium
demo2prd-oz3		i-0bcbada2bdbbf01b4	stopped	r4.4xlarge
demo2qa-oz2		i-005f8dd38b80cb2b1	stopped	r4.4xlarge
SUSE_15SP3_SAPORACLE		i-03144e81cadcd3d8d	stopped	t3.micro
LAB-Gateway-Service		i-0c4685e47e4cf31e3	stopped	t3a.medium

Discover - Distill - Design - Develop - **Deploy**

# Supported Migration Databases

-  SQL Server 2012 and upper level
-  SAP HANA
-  Oracle Database 12c and upper level
-  SAP Sybase ASE



# Testimonials:

*“As part of Under Armour’s SAP migration to AWS, automation was identified as a top priority to ensure we leverage best practices in standardized deployment and use industry-leading tools to automate SAP IT Operation processes. IT-Conductor fits nicely into the solution mix being an AWS SaaS Marketplace platform and a deep automation specialist”.*

**- Eric Peterson, Under Armour Director (Enterprise Applications - SAP Technology IT)**

*“Thanks to IT-Conductor, we were able to realize a migration POC of an SAP system for our customer (from On-prem to AWS) in a fast, safe, repeatable way; obtaining a single-step redesign of the SAP environment, OS and DB upgrades, and savings in infrastructure costs”.*

**- Pierfrancesco Cocco, Delivery Team Leader, BGP**

*For several years now, IT-Conductor has been a proven solution for system monitoring, reporting, and automation of SAP IT operations at IDEXX. The team and platform have been a valuable part of our SAP journey to the cloud.*

**- Prabhat Sharma, Associate Director - SAP Application, IDEXX Laboratories**

<Demo>

Cloud Migration

[https://www](https://www.it-conductor.com)

IT-Conductor  
Cloud Managed Application Management

# Automated S/4 HANA Migration

Demo Video

IT-Conductor Knowledge Base

Stop Guessing, Start Managing →

ductor

# Subscribe to IT-Conductor Automated Migration Services

Visit IT-Conductor AWS Micro Site:

[IT-Conductor AWS](#)



<https://www.itconductor.com/sap-on-aws-migration-survey>

[Request a Demo](#)

support@itconductor.com

Are you struggling with the complexities of migrating your IT infrastructure to the AWS Marketplace?

- Look no further than IT-Conductor's automated migration services.
- Our cutting-edge technology streamlines the migration process, reducing downtime and ensuring a smooth transition.
- By subscribing to IT-Conductor, you'll gain access to our team of expert engineers who will work with you every step of the way. Our personalized approach means that we'll tailor our services to fit your specific needs, ensuring that your migration is successful and stress-free.

# IT-Conductor AWS Marketplace

IT-Conductor in AWS Marketplace has many benefits for your business.

Our platform simplifies monitoring, automation, and cost optimization, saving you time and money. With IT-Conductor, you can easily monitor your AWS environment and identify issues before they become critical.

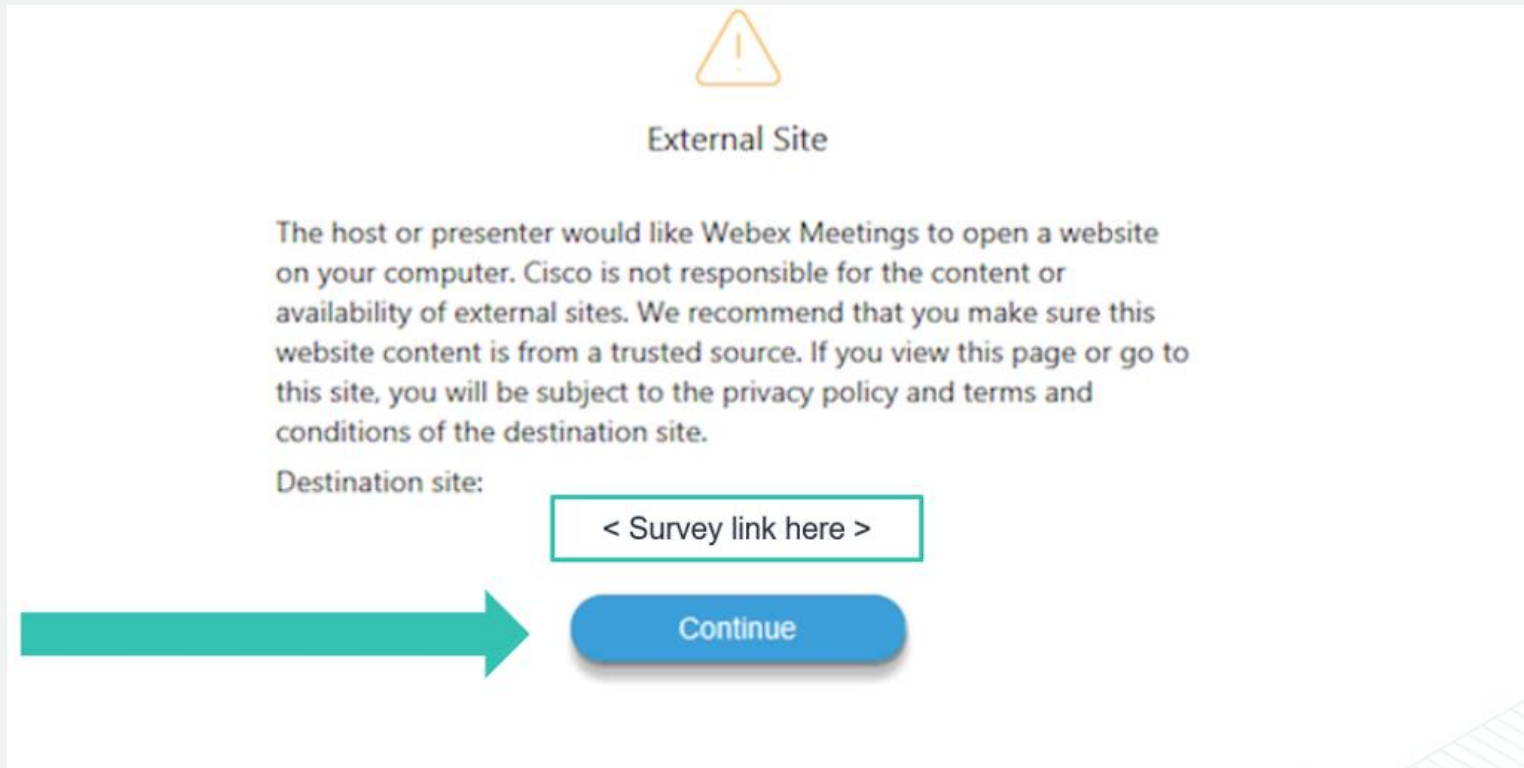
In addition, our platform offers advanced analytics and reporting capabilities, allowing you to make data-driven decisions about your AWS environment. By using IT-Conductor, you can optimize your AWS investment and improve overall performance.

[AWS Amazon Marketplace](#)



# Exit Survey

We appreciate your feedback! Please complete the survey at the end of this session. You will be automatically redirected via this screen:



# Shape the future of AWS Partner learning!

Follow this code to see how you can become an AWS Partner Training Feedback Contributor?



# Thank you!

Please join us again for another PartnerCast session

<https://aws.amazon.com/partners/training/partnercast/>