

CenterPoint Energy automates SAP operations with SAP Landscape Management

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Agenda

- Introduction
- SAP Landscape
- Our Challenges
- Our Goals
- Why SAP LaMa?
- Overview of CNP's System Refresh
- System Refreshes with SAP Landscape Management (LaMa)

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- Benefits of SAP LaMa
- Summary
- Further Information
- Q&A

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CenterPoint Energy: An Electric and Natural Gas Utility



Electric Transmission & Distribution and Power Generation

- Maintain wires, poles and electric infrastructure serving more than 2.5 million metered customers in the greater Houston area and in southwestern Indiana
- Own and operate nearly 1,300 megawatts of electric generation capacity in Indiana

Natural Gas Distribution

- Sell and deliver natural gas to 4.5 million homes and businesses in eight states: Arkansas, Indiana, Louisiana, Minnesota, Mississippi, Ohio, Oklahoma and Texas
- Invest in modernizing natural gas infrastructure and are committed to eliminate cast-iron pipe in all our territories

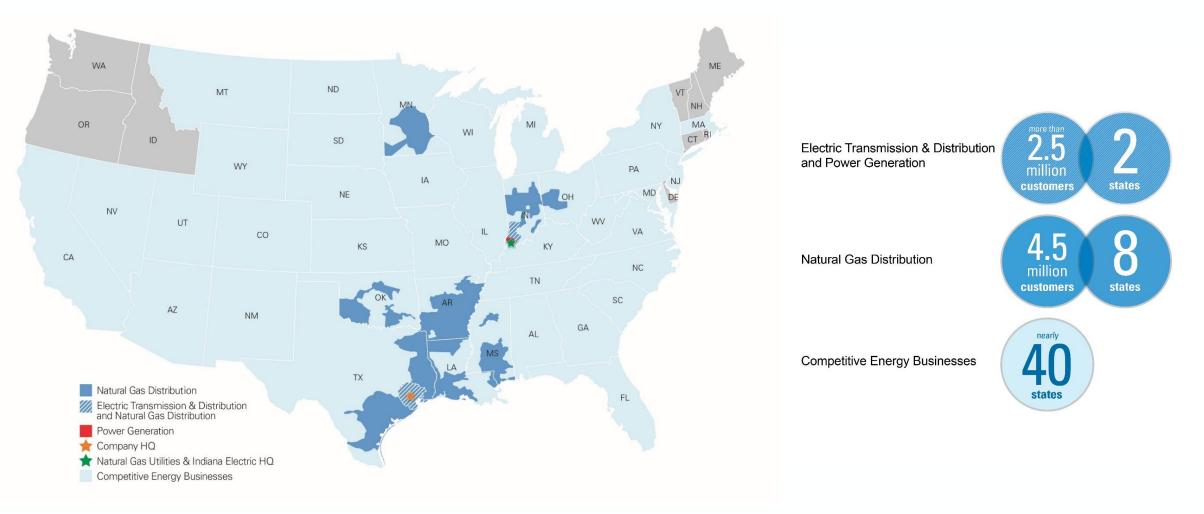
Competitive Energy Businesses

- Natural gas marketing and energy-related services
- Energy efficiency, sustainability and infrastructure modernization solutions
- Construction and repair services for pipeline systems, primarily natural gas
- Footprint spans nearly 40 states

Midstream Investments

- Own 54.0 percent of the common units representing limited partner interests in Enable Midstream Partners
- Enable operates and develops natural gas and crude oil infrastructure assets

CenterPoint Energy: An Electric and Natural Gas Utility



CenterPoint Energy SAP Landscape

- 12 SAP NetWeaver systems Landscape consisting of SAP ECC, SAP CRM, SAP BPC, SAP BW, SAP SRM, SAP SCM, SAP PO, SAP GRC, SAP Solution Manager, SAP SLT, SAP Enterprise Portal, SAP S/4 HANA
- Each landscape has 4 systems with Sandbox, Development, Pre-Production & Production
- N+8 SAP NetWeaver systems to support concurrent projects on SAP ECC and SAP CRM
- SAP ECC Production size ~15TB (compressed) ~22TB (uncompressed)
- Total 170 SAP Systems



Our Challenges

- Multiple Projects with high demand for latest production system copy
- Pre-production data quality is not close to production. 250GB growth every month
- System refreshes taking 5 days with multiple resources
- System restart takes 45 minutes due to number dependent systems and application servers
- CenterPoint is in middle of migrating entire SAP and few non-SAP applications to HANA, need a central tool to manage HANA from operation perspective
- Updating SAP kernel requires downtime

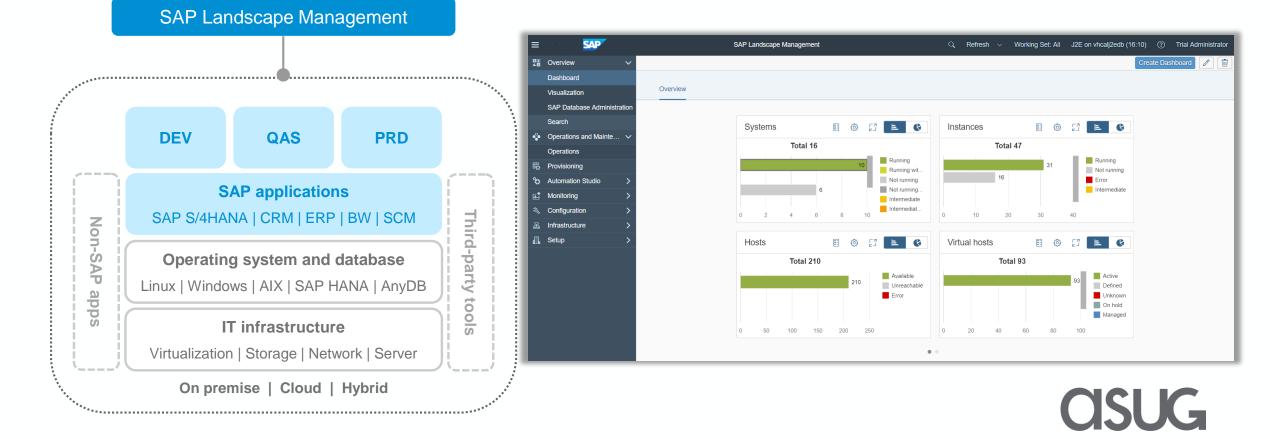
Goals

- Reduce the system refresh time from 5 days to under a day
- Reduce manual tasks & eliminate mistakes by automation
- Reduce the O&M cost
- Improve System Reliability
- Improve efficiency of Basis Resources
- Consistent and high quality in finished system copy
- Automate the system refresh by click of button
- Complete the whole system refresh over the weekend and turnover to business by Monday morning



What is SAP Landscape Management (LaMa) ?

SAP Landscape Management (LaMa) is an orchestration solution to <u>simplify, automate</u>, <u>and centralize the management and operations of your SAP landscapes</u> running onpremise, in the public or private cloud as well as in hybrid environments.



What are the Key Capabilities of LaMa?

Automate and standardize SAP operations

- Automate clone, copy, and refresh activities including BDLS and post-copy tasks
- Perform single and mass operations like start/stop on systems and hosts with built-in support for intersystem dependencies
- Get landscape-wide visibility utilizing dashboards and visualization features



Simplified management of SAP HANA and SAP S/4HANA systems

- Reduce time spent on routine move and copy tasks, visualization, and mass operations for SAP HANA systems
- Automate critical tasks such as takeover and failback operations
- Achieve near-zero downtime maintenance on activities such as automated HANA and OS updates



Management of hybrid SAP landscapes

- Use adapters for easy management of SAP systems deployed on Microsoft Azure, Amazon Web Services, and OpenStack cloud platforms
- Gain full visibility of your SAP systems, both on premise and in the cloud
- Coordinate systems management tasks across cloud-based and on-premise environments

Tailor to your precise requirements

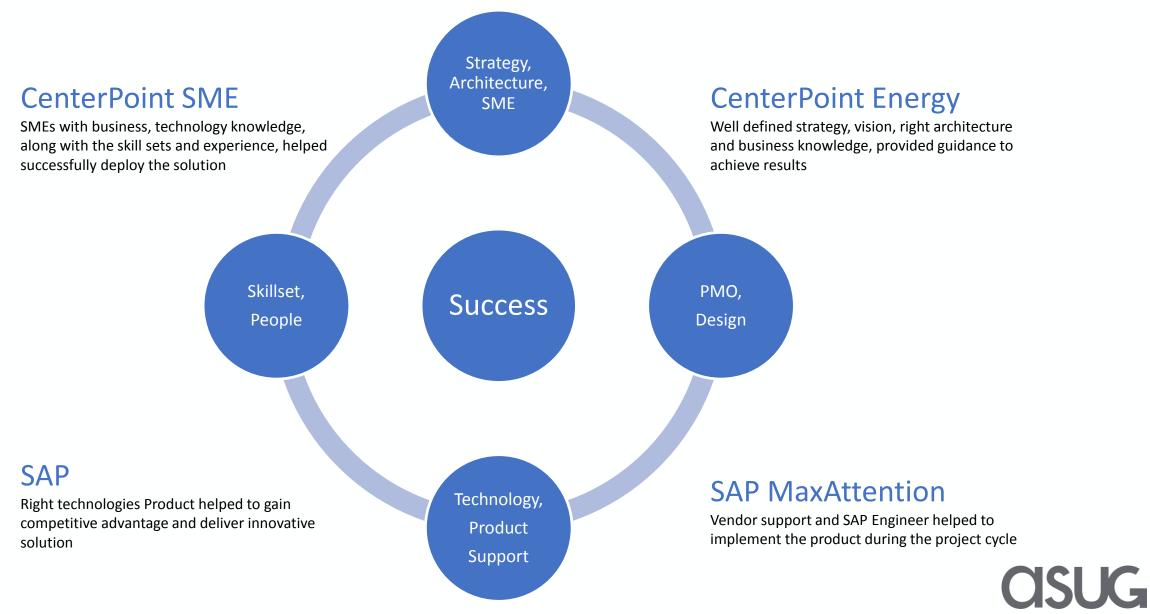
- Integrate existing scripts and best practices into workflows supported by SAP Landscape Management
- Create custom processes, and build your own operational templates and provisioning blueprints with the automation studio
- Leverage REST-APIs to connect to your SAP systems and perform tasks

Why SAP LaMa ?

- CenterPoint has strategic partnership with SAP
- LaMa simplifies the system refresh and automates the SAP landscape management
- Centralize operations of SAP systems
- Rolling Kernel Switch (RKS) upgrade minimize the downtime to call centers
- Easy HANA Operations



Strategic Partnership



Overview of CNP'S LaMa Implementation

Post Copy Automation

- Streamlined manual tasks to LaMa Export & Import tasks
- Customized LaMa Export & Import tasks to suit the SAP ECC/CRM/SRM/EWM & BW landscape
- Developed custom programs to lock/unlock users and to export/import custom tables data
- Streamlined BDLS for the best performances

System Recycle

• Implemented custom start/stop operation for IBM Power High Availability (HA) systems

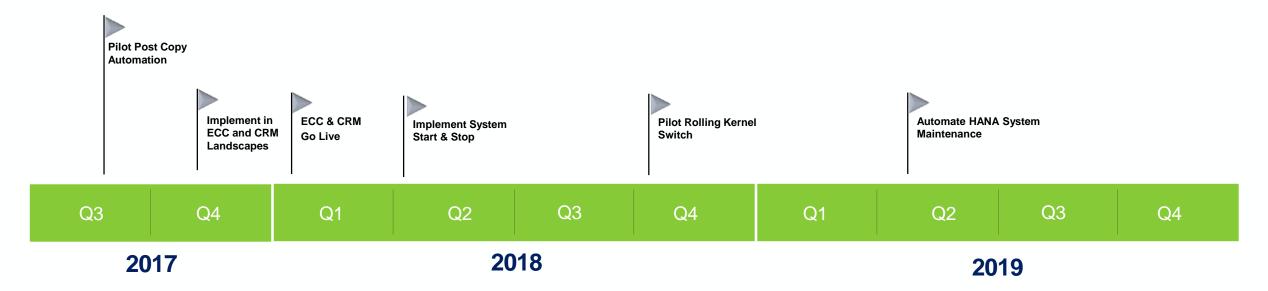
Rolling Kernel Switch

• Rolling Kernel Switch upgrade (RKS) is in POC and plan to implement in Production by Q3 2019

HANA Operation

- Planned HANA System replication setup and operation
- Planned to implement additional SAP Application server via provisioning

LaMa Implementation Timeline



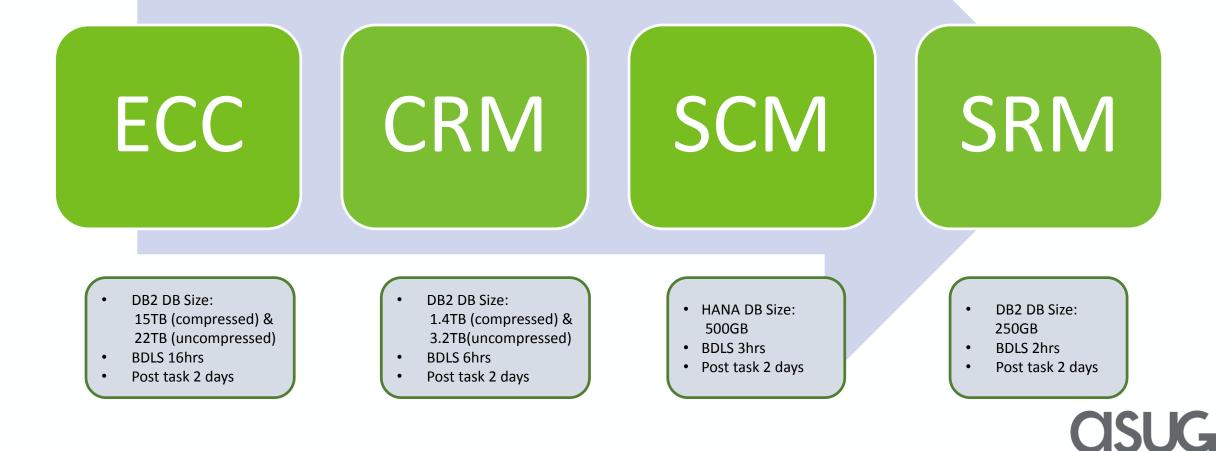


Manual System refresh tasks

System Refresh Activities	Day1	Day2	Day3	Day4	Day5	Day6
 Infrastructure Prep ➢ File system space requirement ➢ sudo access 	4 hours					
 Database Prep Space requirement sudo access 	4 hours					
Basis Prep ≻ Manual export conf tables	8 hours					
Database Restore	10 hours	\rightarrow				
 Post Database Copy Roll forward Cleanup log tables 		4 hours				
 Basis Post Tasks Manual BDLS Manual Import conf tables Manual conf of SOA 			48 hours			
Application Validation				24 hours	\Rightarrow	
Business Validation					8 hours	
Release Systems					*	-

System Combination details refreshes

Total 5 days to complete 4 systems with 4 resources



LaMa - Customized the PCA Export & Import tasks

PCA Export

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k	Phase	Component		Task			Task Description
	Verification	CHECK	•	CL_STCT	_SC_P	REPARE_SICK	Initial Consistency Check (SICK)
	Precheck	CHECK	•	CL_STCT	_SC_P	REPARE_CAPACITY	Prepare PCA Environment Check - File system and Tool
	Cleanup	BW_SAPI	•	CL_RSAPI	_BIW	_DISCONNECT	Disconnect this Source System from Not Copied BW Systems
	Precheck	BW	•	CL_STCT	_SC_E	W_CHECK	Check whether the system is a BW or connected to any BW
	Prepare	PCA	•	CL_STCT	_SC_P	REPARE_PCA_REFRESH	Prepare PCA Refresh Parallel Import Processing
	Export	ALECONFIG	•	CL_STCT	_SC_E	XPORT_ALECONFIG	Export ALE Configuration
	Export	ALECUST	•	CL_STCT	_SC_E	XPORT_ALECUST	Export ALE Customizing
	Export	ARCHIVE_ADK	•	CL_STCT	_SC_E	XPORT_ARCHIVE_ADK	Export Archiving ADK Configuration
	Export	ARCHIVE_CUST	•	CL_STCT	_SC_E	EXPORT_ARCHIVE_CU	Export Archiving Customizing Configuration
	Export	ARCHIVE_OBJ	•	CL_STCT	_SC_E	EXPORT_ARCHIVE_OBJ	Export Archiving Objects Configuration
	Export	BATCHJOBS	•	CL_STCT	_SC_E	XPORT_BATCHJOBS	Export Batch Jobs (SM37)
	Export	BATCHJOBS	•	CL_STCT	_SC_F	REPARE_BATCH2	Set Batch Jobs to Released via BTCTRNS2
	Export	VARIANTS	•	CL_STCT	_SC_E	XPORT_VARIANTS	Export Report Variants
	Export	BATCHSRVGRP	•	CL_STCT	_SC_E	XPORT_BATCHSRVG	Export Batch Server Groups (SM61)
	Export	CCMSCONFIG	•	CL_STCT	_SC_E	XPORT_CCMSCONFIG	Export CCMS Configuration (RZ20, RZ21)
	Export	DBACOCKPIT	•	CL_STCT	_SC_E	EXPORT_DBACOCKPIT	Export DBA Cockpit Configuration (DBACOCKPIT)
	Export	EXTCOMMAND	•	CL_STCT	_SC_E	EXPORT_EXTCOMMAND	Export Operating System Commands (SM69)
	Export	FILE	•	CL_STCT	_SC_E	XPORT_FILE	Export Cross-Client File Names/Paths (FILE)
	Export	LICENSE	•	CL_STCT	_SC_E	XPORT_LICENSE	Export SAP License (SLICENSE)
	Export	LOGONGROUP	•	CL_STCT	_SC_E	XPORT_LOGONGROUP	Export Logon Groups (SMLG)
	Export	OPMODE	•	CL_STCT	_SC_E	XPORT_OPMODE	Export Operation Modes (RZ04)
	Export	PRINTER	•	CL_STCT	_SC_E	XPORT_PRINTER	Export Spool Configuration (SPAD)
	Export	RFC	•	CL_STCT	_SC_E	XPORT_RFC	Export RFC Connections (SM59)
	Export	RFC_IN	•	CL_STCT	_SC_E	XPORT_RFCIN	Export RFC Inbound Queue Configuration (SMQ2)
	Export	RFC_OUT	•	CL_STCT	_SC_E	XPORT_RFCOUT	Export RFC Outbound Queue Configuration (SM58, SMQ1)
	Export	BGRFC	•	CL_STCT	_SC_E	EXPORT_BGRFC	Export Background RFC (SBGRFCMON)
	Export	SLD_RZ70	•	CL_STCT	_SC_E	EXPORT_RZ70	Export SLD Data Supplier Configuration (RZ70)
	Export	SCOT	•	CL_STCT	_SC_E	XPORT_SCOT	Export SAPconnect Configuration (SCOT)
	Export	SICF	•	CL_STCT	_SC_E	EXPORT_SICF	Export HTTP Service Configuration (SICF)
	Export	SLD_APICUST	•	CL_STCT	_SC_E	EXPORT_SLDAPICUST	Export SLD Access Data Configuration (SLDAPICUST)
	Export	SM14	9	CL_STCT	_SC_E	EXPORT_SM14	Export Update Program Administration (SM14)
	Export	SM19	9	CL_STCT	_SC_E	EXPORT_SM19	Export Security Audit Profile Configuration (SM19)
	Export	STRUST	9	CL_STCT	_SC_E	EXPORT_STRUST	Export Trust Manager Configuration (STRUST)
	Export	SNC	9	CL_STCT	_SC_E	EXPORT_SNC	Export SNC Access Control List (STRUSTSSO2)

PCA Import

Display Task List ZCNP_SAP_BASIS_COPY_REF_IMPORT, Build 00000

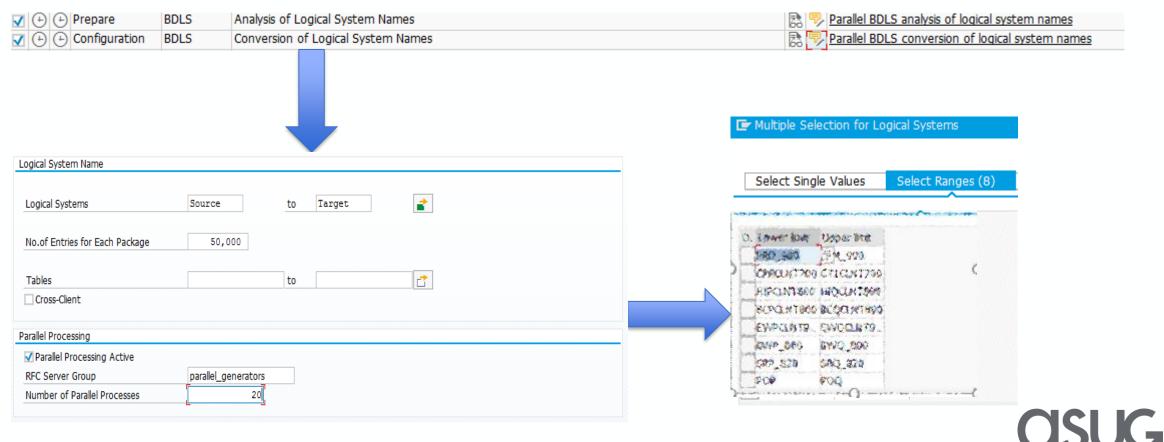
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Custom tasks

Postprocessing		ZLAMA_UNLOCK_USERS	Report ZLAMA_UNLOCK_USERS - Program to unlock all users a	UJUG
Verification	CUSTOMER	CL_STCT_SC_MANUAL_STEP	Customer: Manual action; Confirmation required	OSUG
Postprocessing		ZLAMA_UNLOCK_SWATTEAM	Report ZLAMA_UNLOCK_SWATTEAM - Program to unlock Swa	
Postprocessing		ZLAMA_UNLOCK_CLIENT_000	Report ZLAMA_UNLOCK_CLIENT_000 - Program to unlock Clie	
Configuration	BDLS	CL_STCT_SC_CONV_BDLS	Conversion of Logical System Names	
Prepare	BDLS	CL_STCT_SC_PREPARE_BDLS	Analysis of Logical System Names	

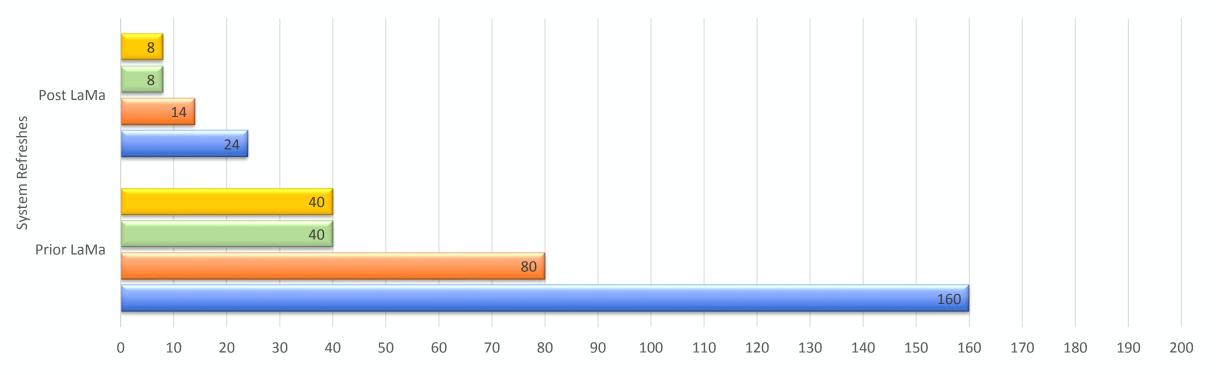
LaMa – BDLS Improvement

- Added Parallel BDLS analysis
- Added multiple logical systems in parallel conversion



Using LaMa system refresh

System Combination of Refreshes



SRM EWM CRM ECC

Time in Hours

CISUG

Cost Saving

		Before		After			Savings	Amount
System Combination	No. of refreshes in 2018	Resources	Hours	Resources	Hours	Total Hours	Hours	<u>1 FTE</u> <u>@126/hr.</u>
ECC/CRM/SCM/SRM	1	4	160	1	8	8	152	\$19,152.00
ECC / CRM (project landscape)	40	2	3200	1	8	320	2880	\$362,880.00
BW	8	2	640	1	8	64	576	\$72,576.00
GRC	2	2	160	1	8	16	144	\$18,144.00
BPC	2	2	160	1	8	16	144	\$18,144.00
EWM	1	1	40	1	8	8	32	\$4,032.00
SRM	1	1	40	1	8	8	32	\$4,032.00
Total Saving	55						3960	\$498,960.00



LaMa – Benefits for System Refresh

- SAP ECC/CRM/SRM & EWM Refreshes completes in 24 hours compared to 5 days
- Automated the User lock/unlock during the system refresh and during the support package implementation avoiding the need for SAP security team to be available
- Enhancements to manage customer specific tables during system refreshes
- Consistent and high quality of system refresh process
- Saved over 3960 man hours in 2018, saving ~\$500,000.00

LaMa – Benefits of Automated Operation

- Mass Operations of SAP systems start/stop
- Customized Unix scripts and integrated in LaMa to suspend & resume IBM Power High Availability (HA) cluster
- Production systems recycle time reduced from 45 minutes to less than 10 minutes with Mass Operation
- Automating the Cloud systems start/stop reduces the cost of maintenance
- Notification of system maintenance via emails

Summary

- SAP LaMa has provided us with the ability to improve the system refresh process and achieve the goals.
- SAP LaMa helped to eliminate the repetitive tasks of managing the landscape from operation to system refreshes, RKS etc.
- SAP LaMa helps to keep up with an increasingly complex landscape operation
- Use an implementation partner to help you get it setup correctly



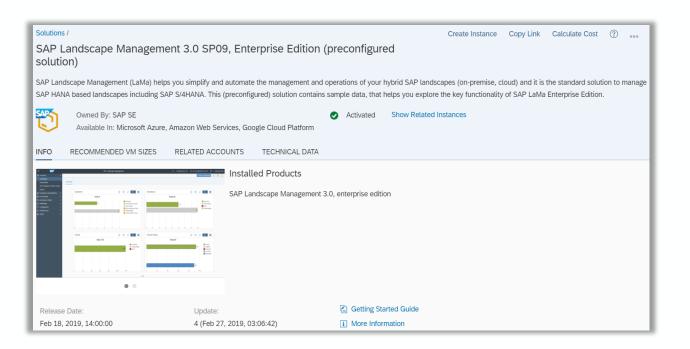
Test drive SAP Landscape Management in the cloud with SAP CAL



Test drive LaMa in the cloud with SAP Cloud Appliance Library (CAL)

- + Get quick hands-on experience with LaMa in the cloud (deploy & use within minutes...)
- + Comes with pre-configured demo scenarios and descriptions to get you started
- + This blog provides more information on how-to get started with LaMa solution using SAP CAL

https://blogs.sap.com/2018/09/18/get-your-free-trial-forsap-landscape-management/



https://cal.sap.com



Additional Product Information



Product Page including Customer <u>https://www.sap.com/lama</u> Success Stories

Community Network

Official Documentation

Product FAQs

Training

Partner Integrations

https://www.sap.com/community/topics/landscape-management.html https://help.sap.com/lama https://blogs.sap.com/2016/10/21/sap-landscape-management-faq-lvmlama/ https://blogs.sap.com/2016/11/02/summary-of-sap-partner-integrations-with-saplandscape-virtualization-management-2.x/ https://blogs.sap.com/2016/10/19/customer-presentations-conferences-sap-lvm-lama/

Customer Presentations

https://blogs.sap.com/2018/03/12/lama.gettraining/

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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here: http://info.asug.com/2019-ac-slides





For questions after this session, contact us at <u>sunil.jain@centerpointenergy.com</u> <u>Jens.rolke@sap.com</u> <u>surendra.j@sap.com</u>



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