



Managing the SAP Application and Infrastructure Lifecycle Using SAP Landscape Management and VMware

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About the Speakers

David Gallant

- Product Manager, VMware, Inc.
- VMware on SAP Thought Leader

Dirk Karjack

- Architect, VMware, Inc
- Early Virtualization Adopter, Automation Expert

Key Outcomes/Objectives

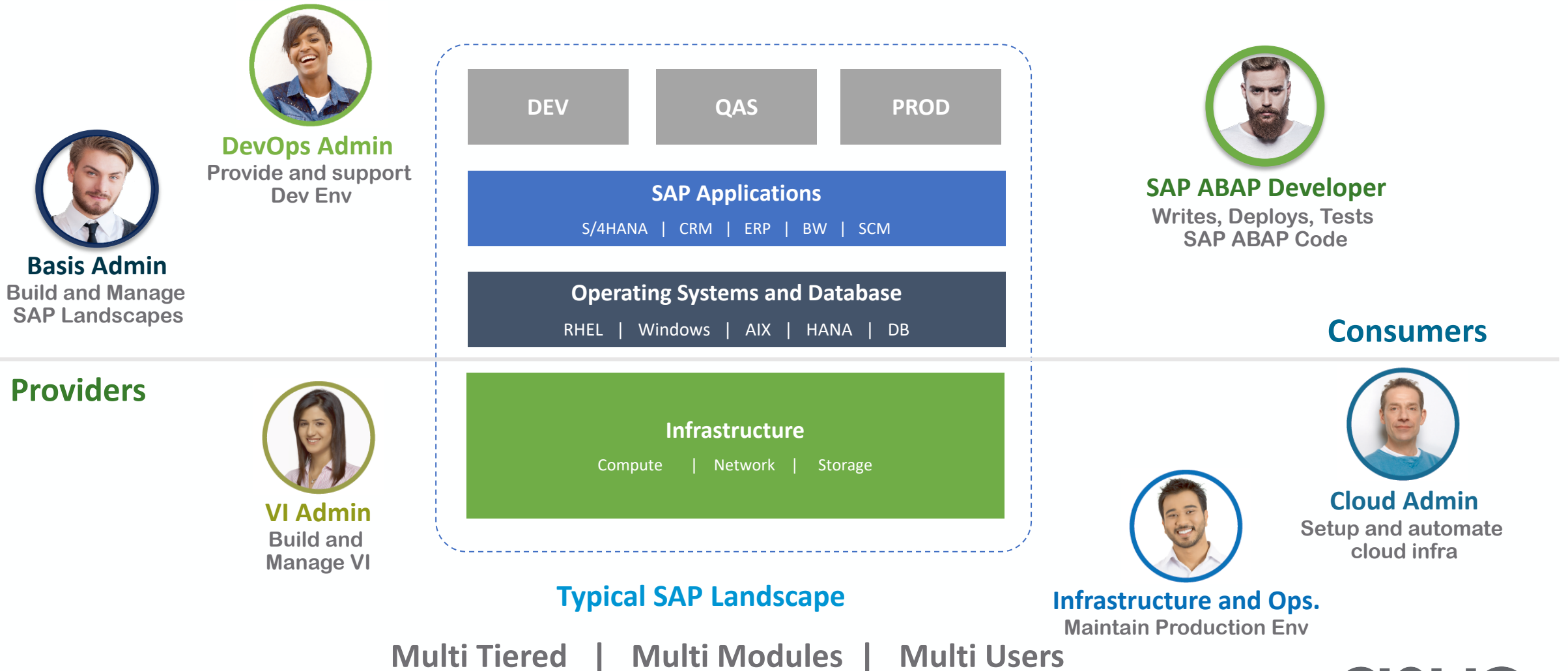
1. Learn How-To integrate SAP LaMa with VMware's SDDC
2. Understand the benefits of the integration
3. Walk away with tips on keeping SAP up and running with minimal downtime using automation

Agenda

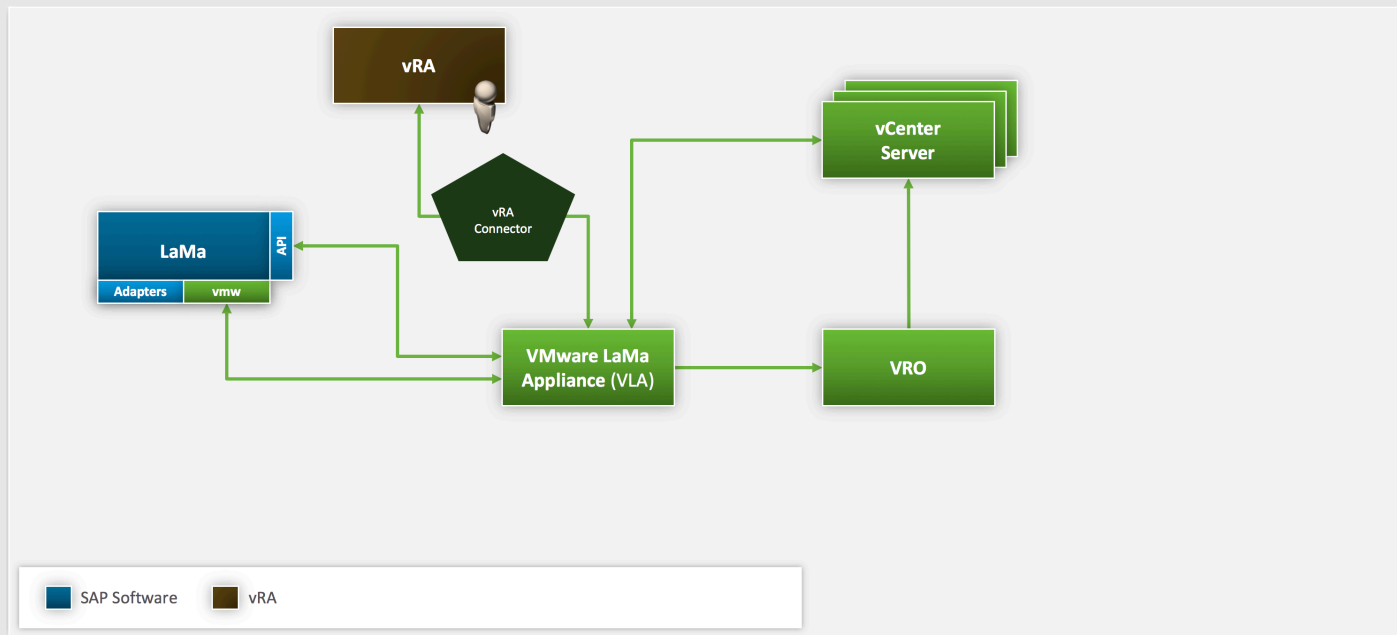
- Key components of the SAP on VMware SDDC automation solution
- Optimize lifecycle management using SAP LaMa and VMware Adapter for SAP LaMa
- SAP system refresh on a Tuesday afternoon...
- Benefits and Takeaways

KEY COMPONENTS

SAP Landscape Management Challenges



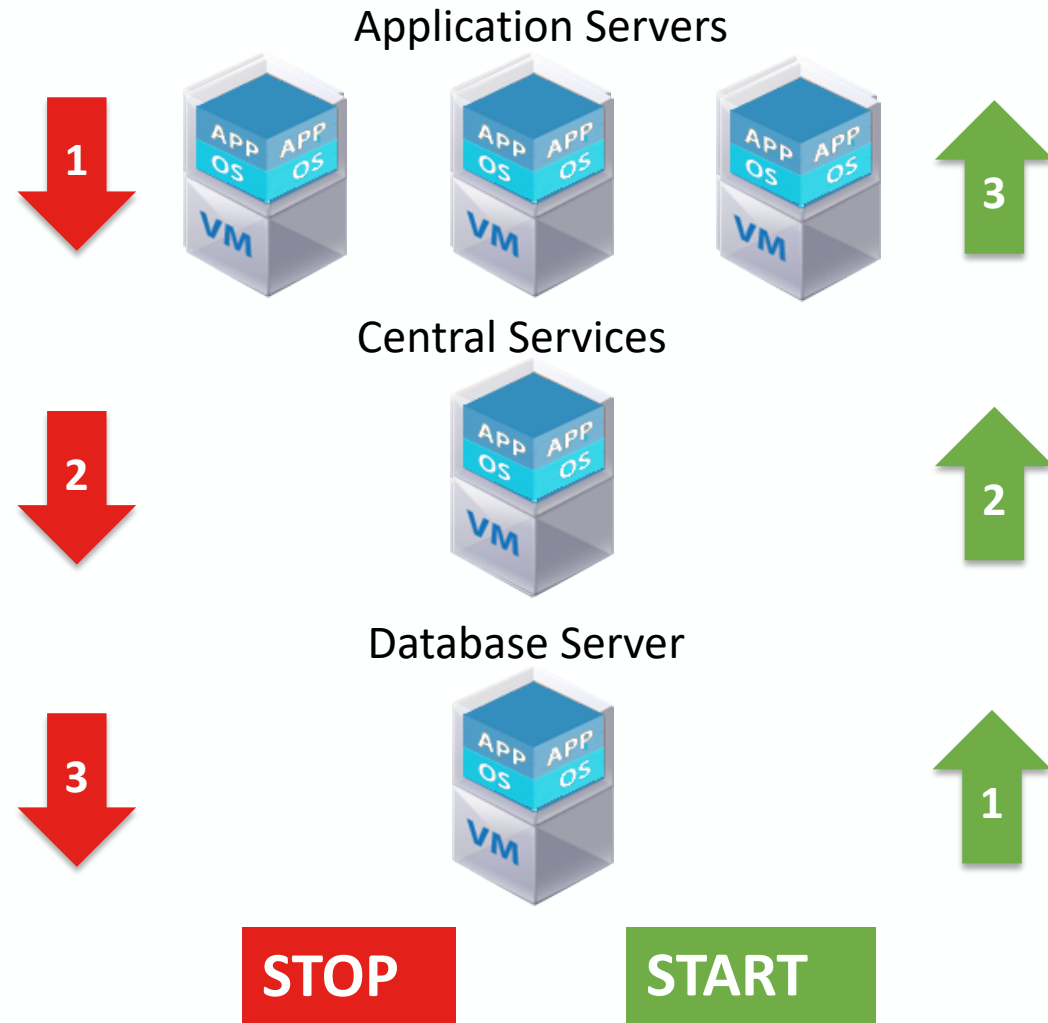
Key Components of the SAP Automation on VMware SDDC Solution



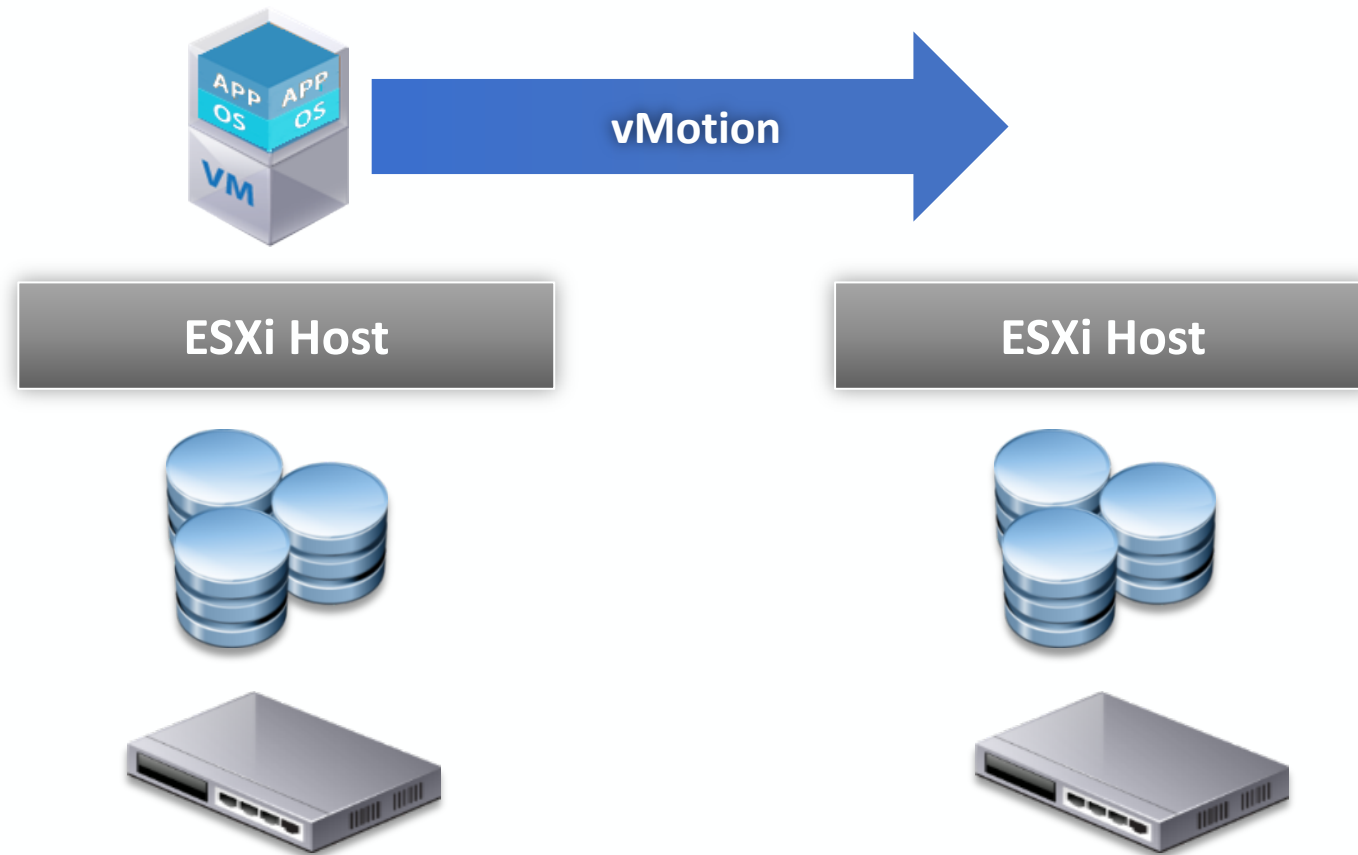
- 5 Key Components make up the complete Automation Solution
 - SAP Landscape Management (LaMa)
 - vCenter Server (VC)
 - vRealize Orchestrator (VRO)
 - VMware LaMa Appliance (VLA)
 - vRA Connector
 - vRealize Automation
- When the customer wants to use vRA we extend VLA using a connector we developed to allow vRA to become the user interface, similar to LaMa.
 - SAP BASIS Admins have the ability to publish templates and blueprints for SAP systems to vRA, where any project users can request those systems automatically, without the need for BASIS admins to set anything up.
 - BASIS admins no longer need to handle provisioning and management tasks.

OPTIMIZING LIFECYCLE MANAGEMENT

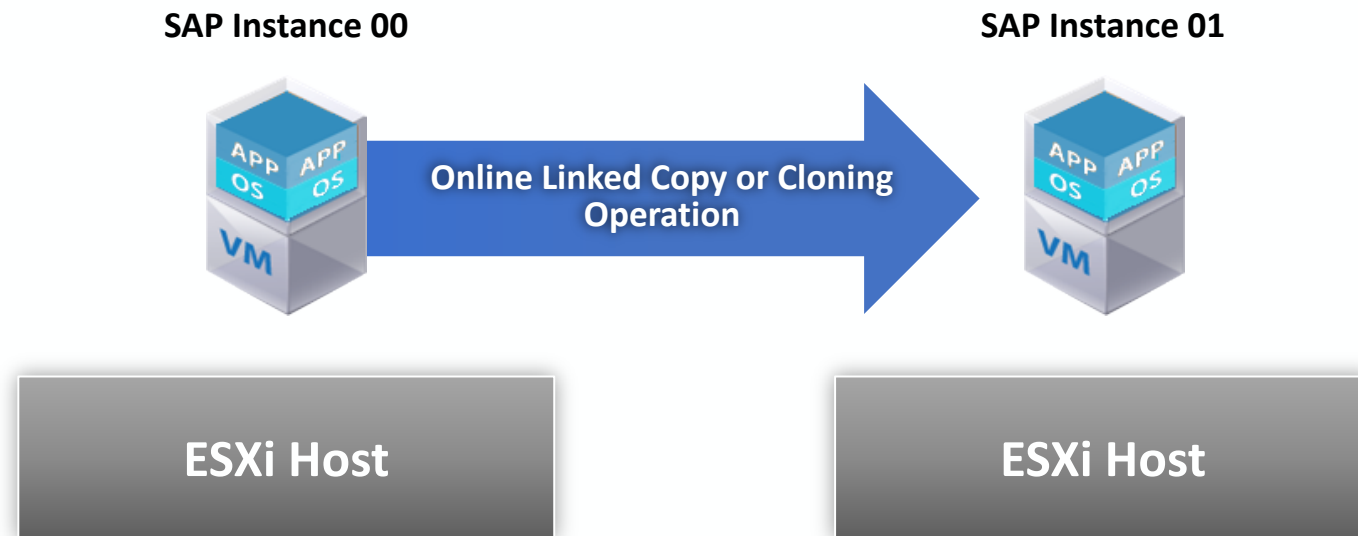
Mass Stop and Start for SAP Landscapes



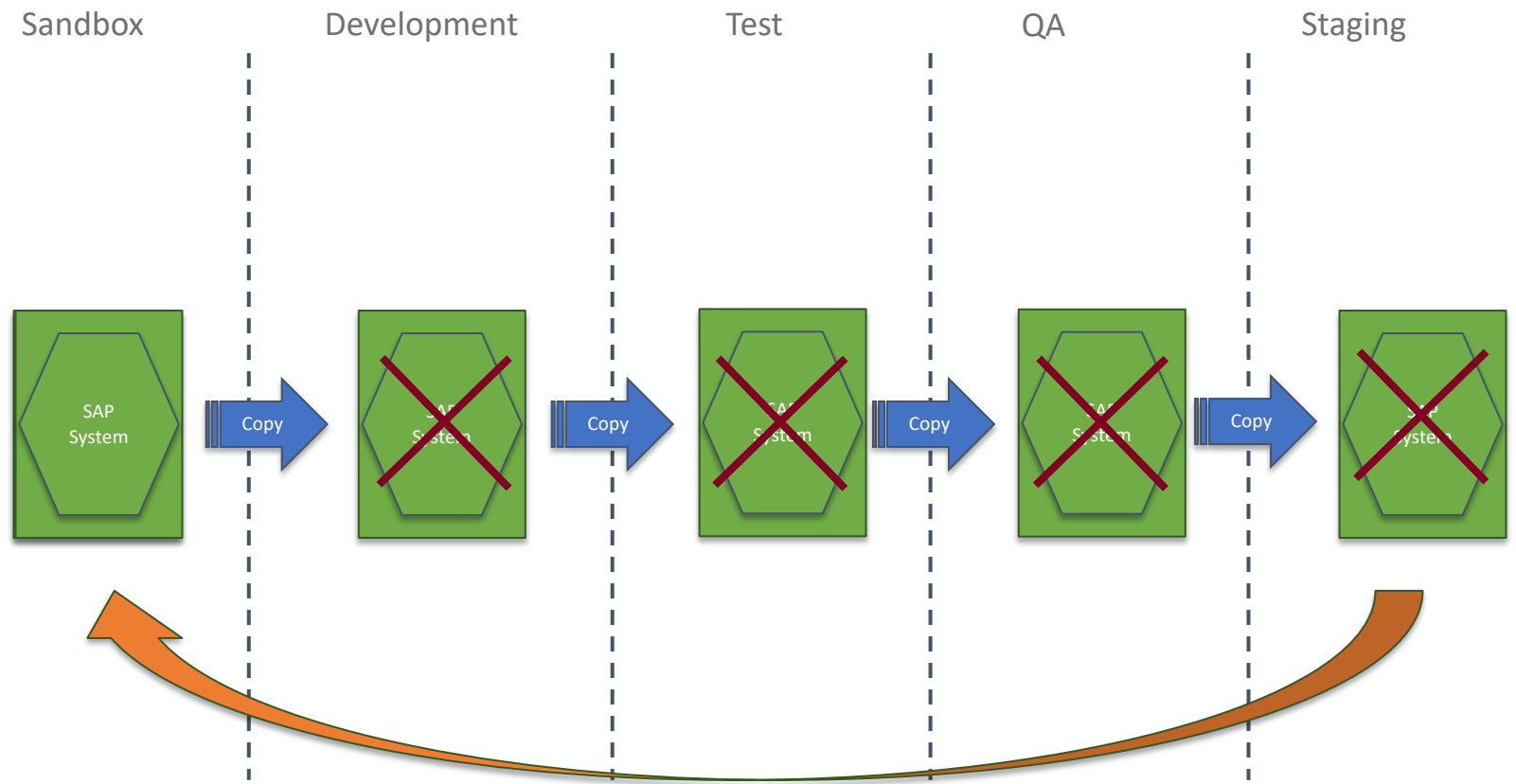
Host, Storage and Network Migration



Copy or Clone an SAP System

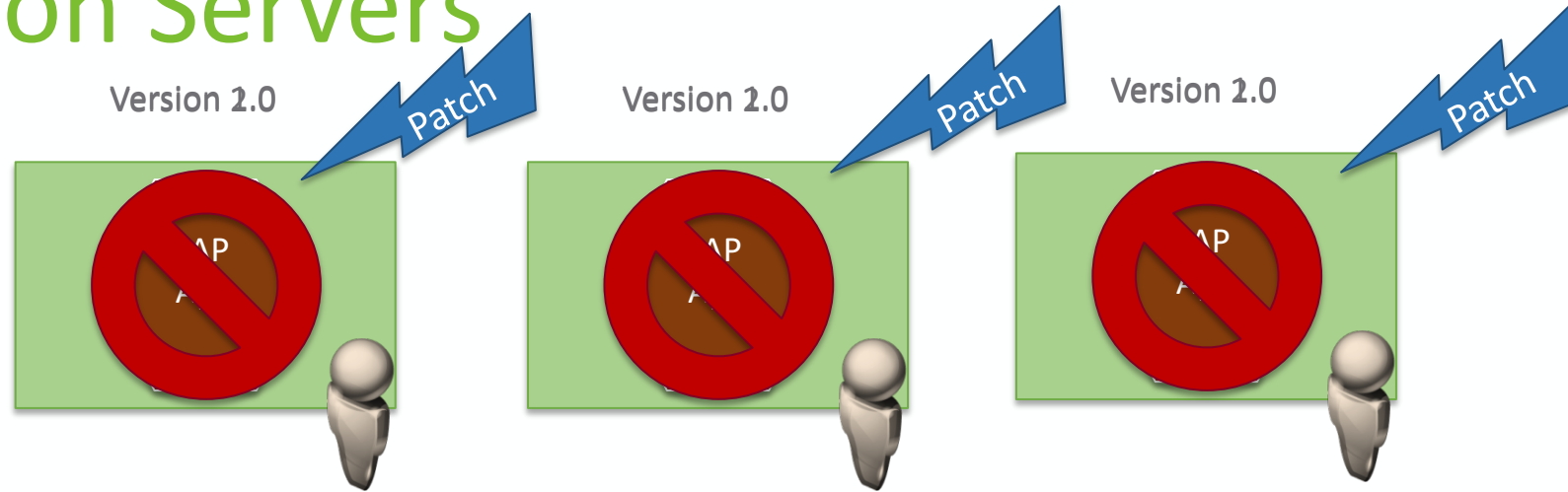


Copy/Clone Based Software Defined Lifecycle Management



Cycle Starts Over Again

SAP LaMa Automated Rolling Patching SAP Application Servers

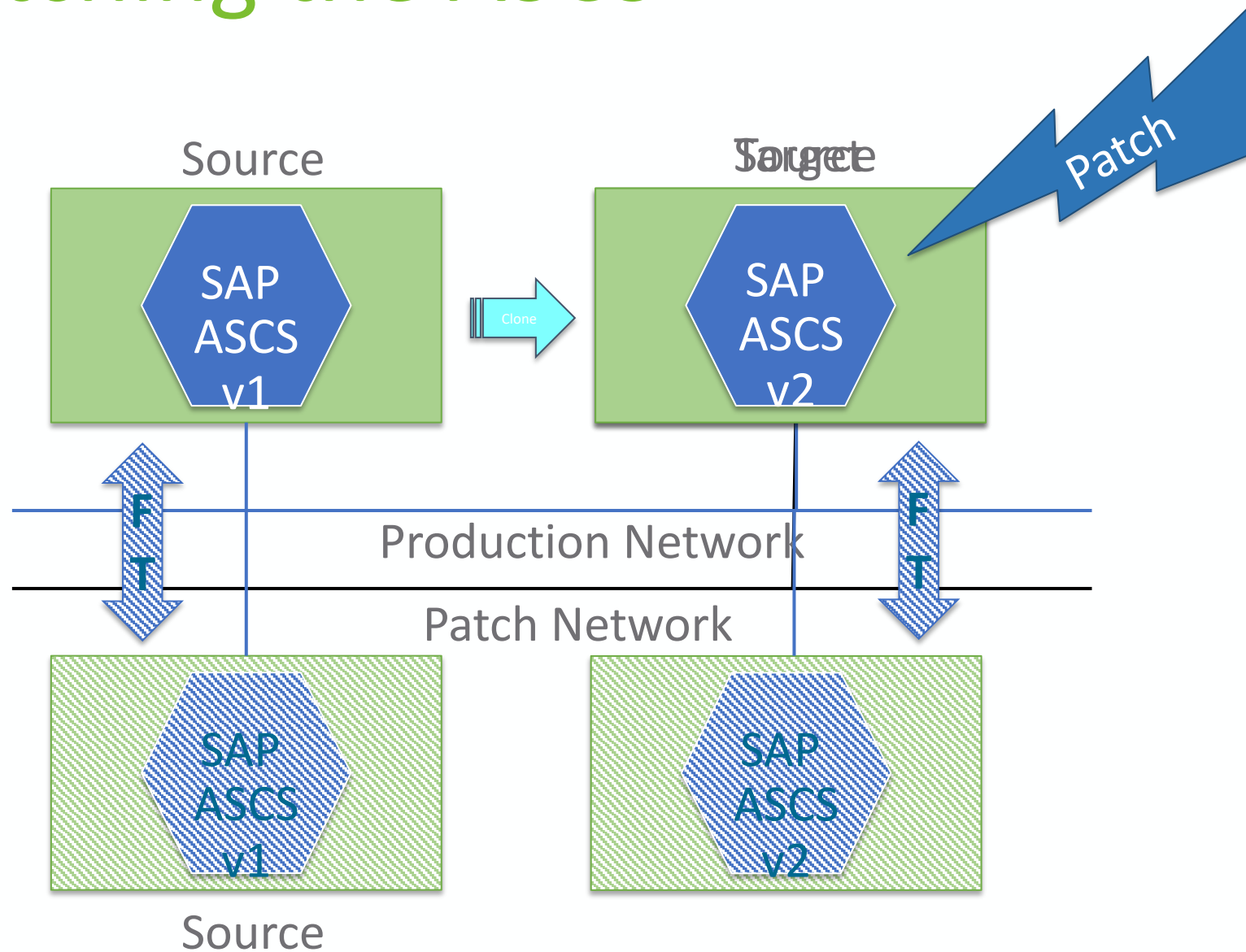


SAP LaMa executes rolling kernel patching SAP applications:

1. Soft Shutdown, automatically closes the logon group to any future user sessions
2. The last session finishes and the SAP system closes all connections
3. Shut down the version 1 app server and deploy version 2
4. registers the new app server with the central instance
5. Starts the SAP services
6. Opens the app server for user logons
7. Repeat for every app server

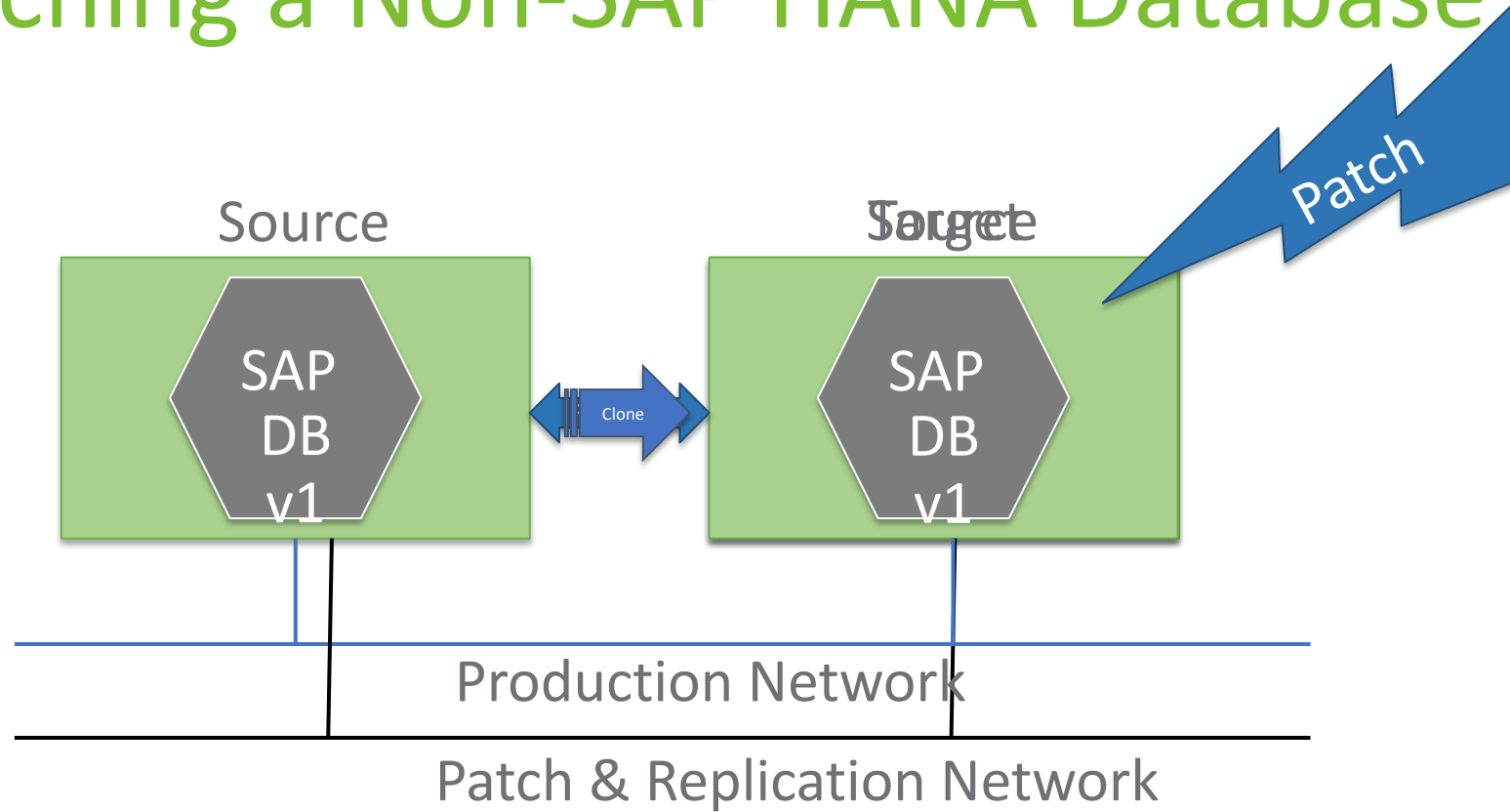
NZD Patching the ASCS

Procedure



NZD Patching a Non-SAP HANA Database Server

Procedure



BENEFITS AND TAKEAWAYS

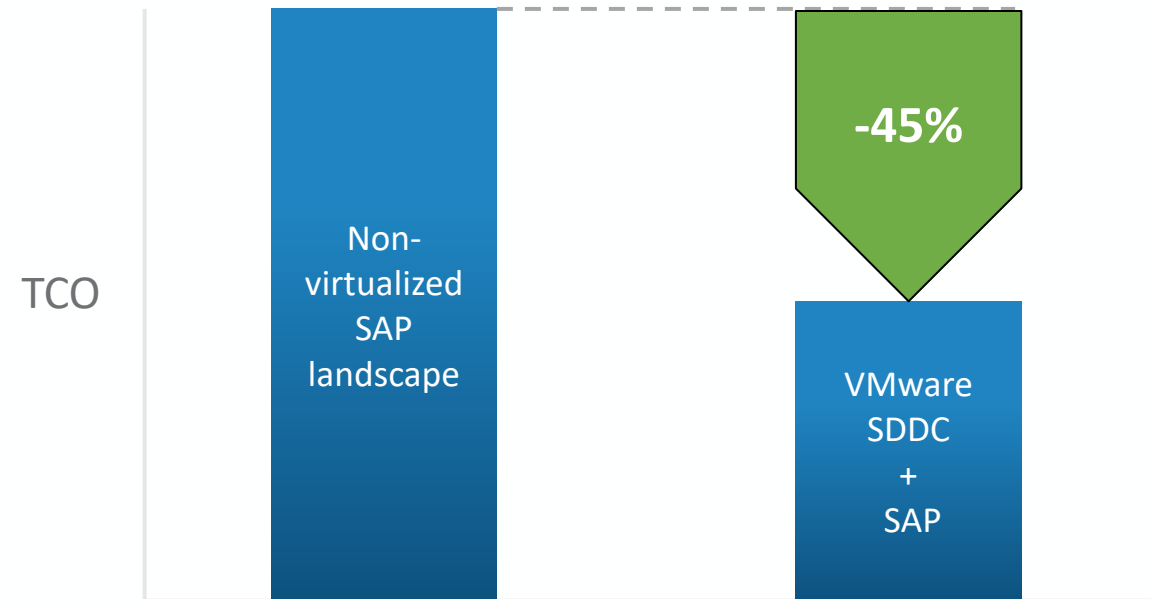
Reduce Downtime, Save Money Time and Resources Managing SAP

Days to Minutes in time reduction for provisioning of SAP system

Up to 40% labor savings

On Average Up to 45-50% in TCO savings

Most use cases can be executed during normal business hours with no impact or downtime to production systems



Data based on current SAP/VMware customer deployments and internal analysis and testing

SAP & VMware

Why VMware and SAP

Together with SAP, we make cloud run better by simplifying infrastructure for your SAP landscape.

Allow existing SAP customers to easily leverage Hybrid Cloud and Hyper-Converged Architecture, without transformation in technology, by just using our vSphere platform



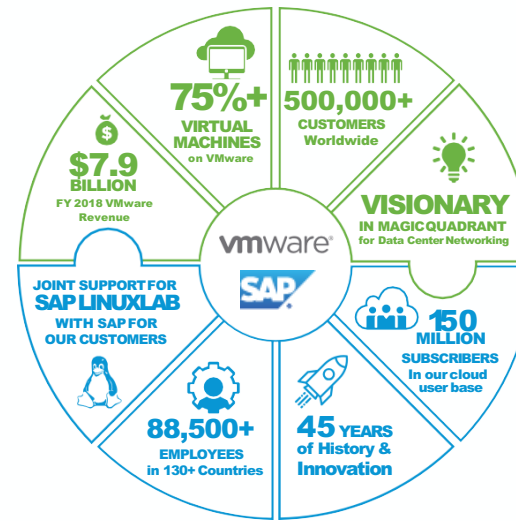
Any App. Any Cloud. Any Device.



Seamless Hybrid Architecture



Hyper-converged platform for SAP



Joint Customer Wins*

TECHNOLOGY

SAP Applications powered by HANA are rapidly provisioned in minutes using templates

85%

Reduction in total delivery cost

2.5x

Reduction of SAP HANA infrastructure costs

96%

Reduction in power requirements

GLOBAL MANUFACTURING

Accelerate innovation and business transformation

23%

TCO Reduction

Decrease in provisioning time from 6 weeks to

90 minutes

Overall savings of **\$210M**

VMware Solutions for SAP



VMware Cloud on AWS, certified for SAP S/4 HANA
Multi and Hybrid cloud deployment



HCI platform certification available to all OEM



VMware Digital Workspace Test Drive available on SAP AppCenter



SAP Automation powered by vRealize Suite



VMWare IoT and Leonardo Integration



SAP Blockchain-as-a-Service Accelerator

PLATFORM MODERNIZATION SERVICE FOR SAP

CUSTOMIZE YOUR SAP LANDSCAPES WITH OUR PROVEN PATH



STRATEGY

- SAP Advisory Workshop
- Validate business /IT objectives
- Knowledge transfer
- Virtualization use cases
- High-level virtualization roadmap



ASSESSMENT

- SAP Replatforming Assessment
- Current state analysis
- Readiness check for virtualization
- Validate future state requirements for running SAP on VMware



DESIGN

- SAP Plan and Design
- SAP Design Review
- Technical architecture design
- Detailed implementation plan
- High Level Migration Plan



IMPLEMENTATION AND MIGRATION

- Virtual Infrastructure Implementation
- Migration of SAP landscape
- Implementation of management solutions
- Testing
- Go-Live support



OPTIMIZATION

- Post-Go-Live Services
- Optimization
- Operational readiness
- Performance Tuning
- SAP Automation

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Presentation Materials

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<http://info.asug.com/2019-ac-slides>

Q&A

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