

# SAP Landscape Management Cloud

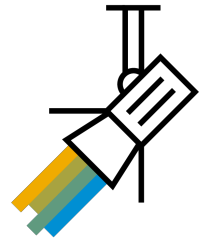
## Live in Action

**Solution Overview**  
January, 2023

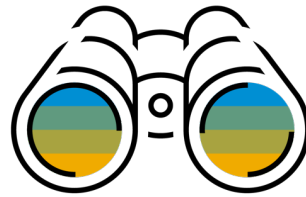
Adarsh Kapoor | Product Manager

PUBLIC

THE BEST RUN 



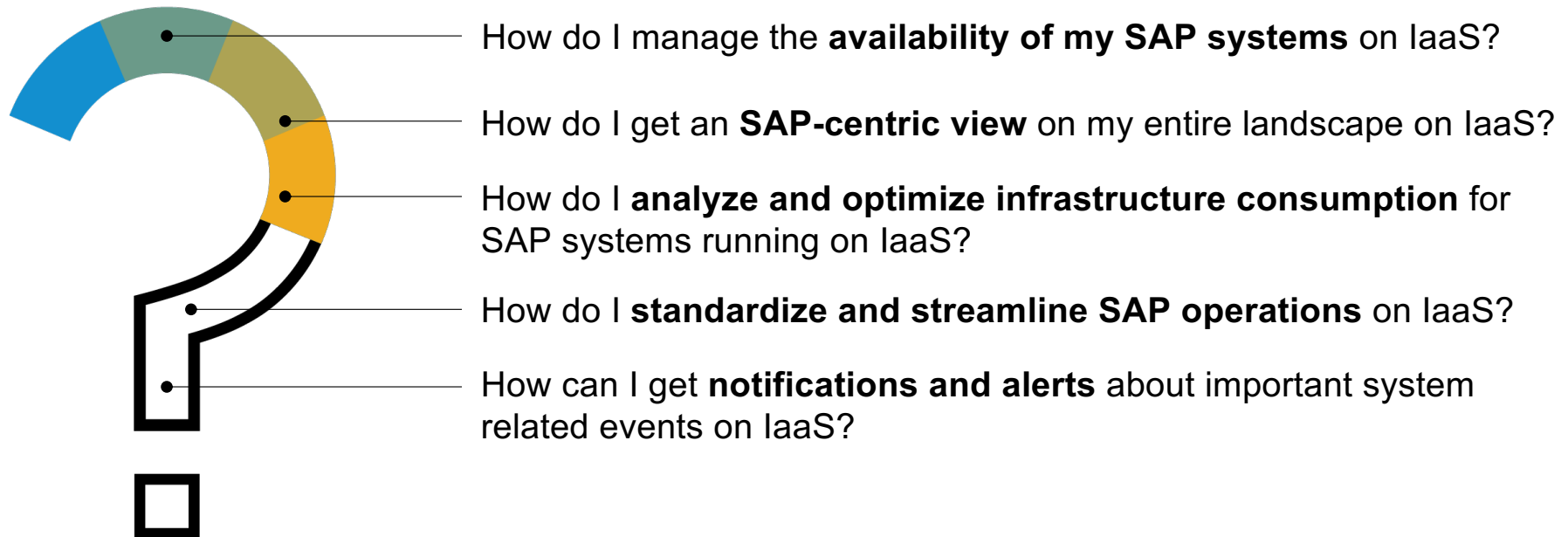
- Introduction (key use-cases)
- What's new
- Live demos
- Q&A



# What is SAP Landscape Management Cloud

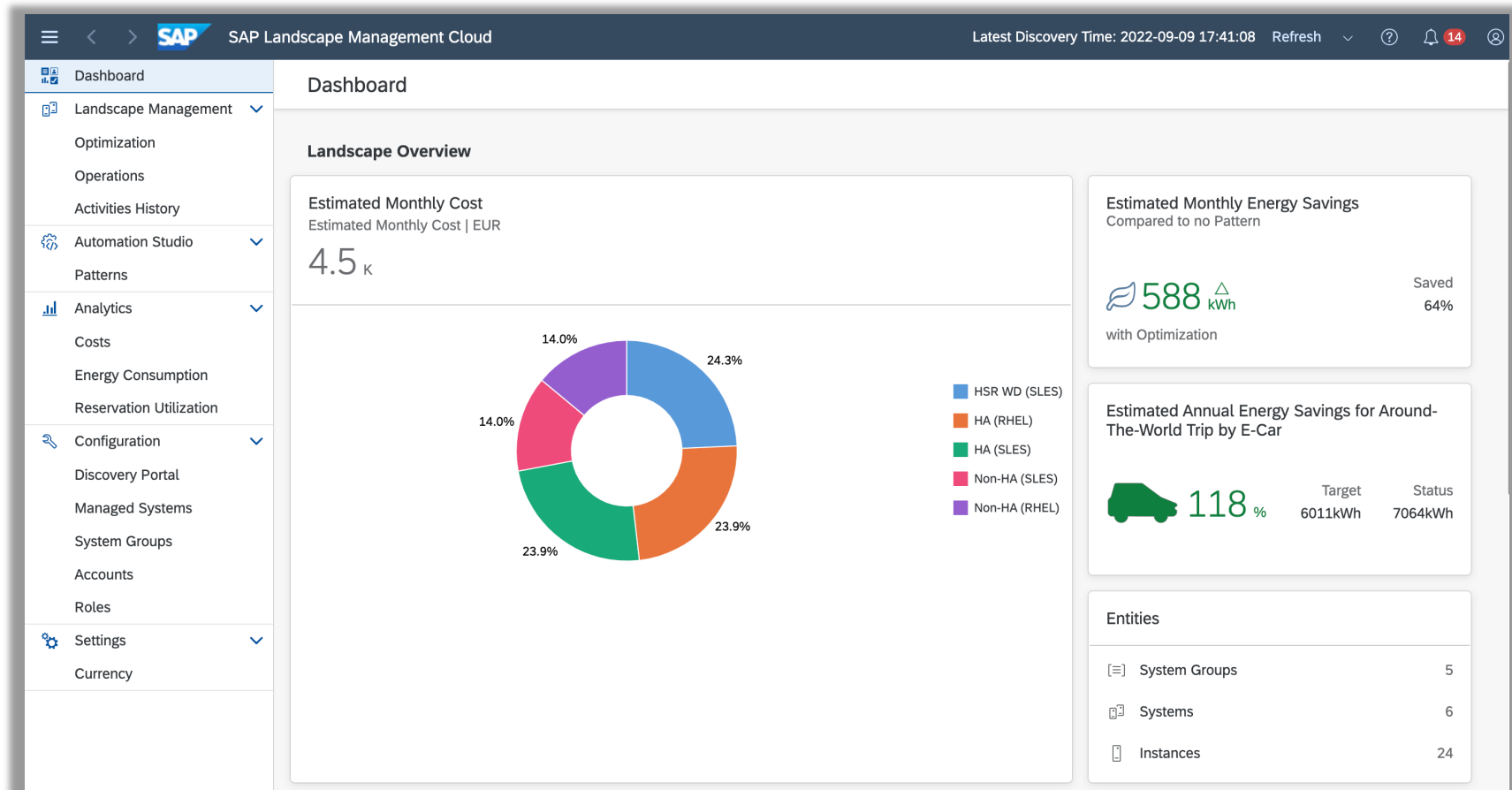
# SAP Landscape Management Cloud (LaMa Cloud)

Challenges: How do I efficiently run my SAP systems on IaaS ?



# SAP Landscape Management Cloud (LaMa Cloud)

Simplify the management of SAP systems running on public cloud infrastructures



# SAP Landscape Management Cloud (LaMa Cloud)

## Key use cases

### Get insights into your IaaS consumption

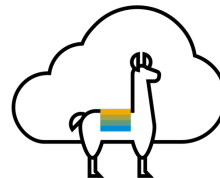


Analyze your IaaS costs and energy consumption across your entire system landscape and get an SAP system-centric view on actual costs vs. estimations

### Optimize costs and energy consumption



Apply built-in or customized availability patterns and optimizations to reduce the overall costs and energy consumption for running your systems on IaaS



**SAP Landscape  
Management Cloud**

### Simplify and centralize system management

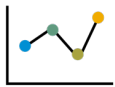


Simplify the management and operations of your SAP landscapes running on IaaS including advanced system operations such as, automating SAP system refreshes

# SAP Landscape Management Cloud (LaMa Cloud)

## Key use cases

### Get insights into your IaaS consumption



Spending Overview



Region View



System View



Analyse cost and energy consumption



Actual vs. estimated costs

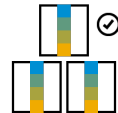
### Optimize costs and energy consumption



Built-in and custom schedules



Scale-in / scale-out application servers

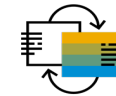


Management of reserved instances



Snooze and awake systems

### Simplify and centralize system management



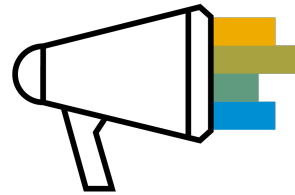
Automated SAP system refreshes



Single and mass operations (start, stop)



Dashboards and system visualization



What's new



# SAP Landscape Management Cloud (LaMa Cloud)

## What's new

### Perform SAP system refresh based on file-based backup in SAP HANA

automate and simplify your SAP system refresh activities on IaaS including post-copy automation steps (available for SAP HANA based systems using a file-based backup procedure)

### Management of SAP systems based on non-SAP HANA databases

Support for SAP systems based on MS SQL server and Oracle DB (deployed on IaaS)

### Support for SAP systems on Google Cloud Platform (GCP)

basic management of SAP systems running on GCP to analyze cost/energy consumption – additional management features planned for 2023 (start, stop, snooze...)

***... and more***



[Link to detailed  
release notes](#)



Live demos



# SAP Landscape Management Cloud

## Find out more

### Learn more

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Check out our website to learn more about SAP Landscape Management, read customer references and get technical information on the product



[Learn how to use the solution](#)



[Check out our product page](#)

### Get engaged

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Visit our SAP community page to engage with SAP experts, catch the latest news, ask questions and access valuable resources to fast-track your knowledge



[Join the community](#)



[Try it out](#)

# Thank you.

Contact information:

**Adarsh S. Kapoor**

SAP SE, Walldorf (Germany)

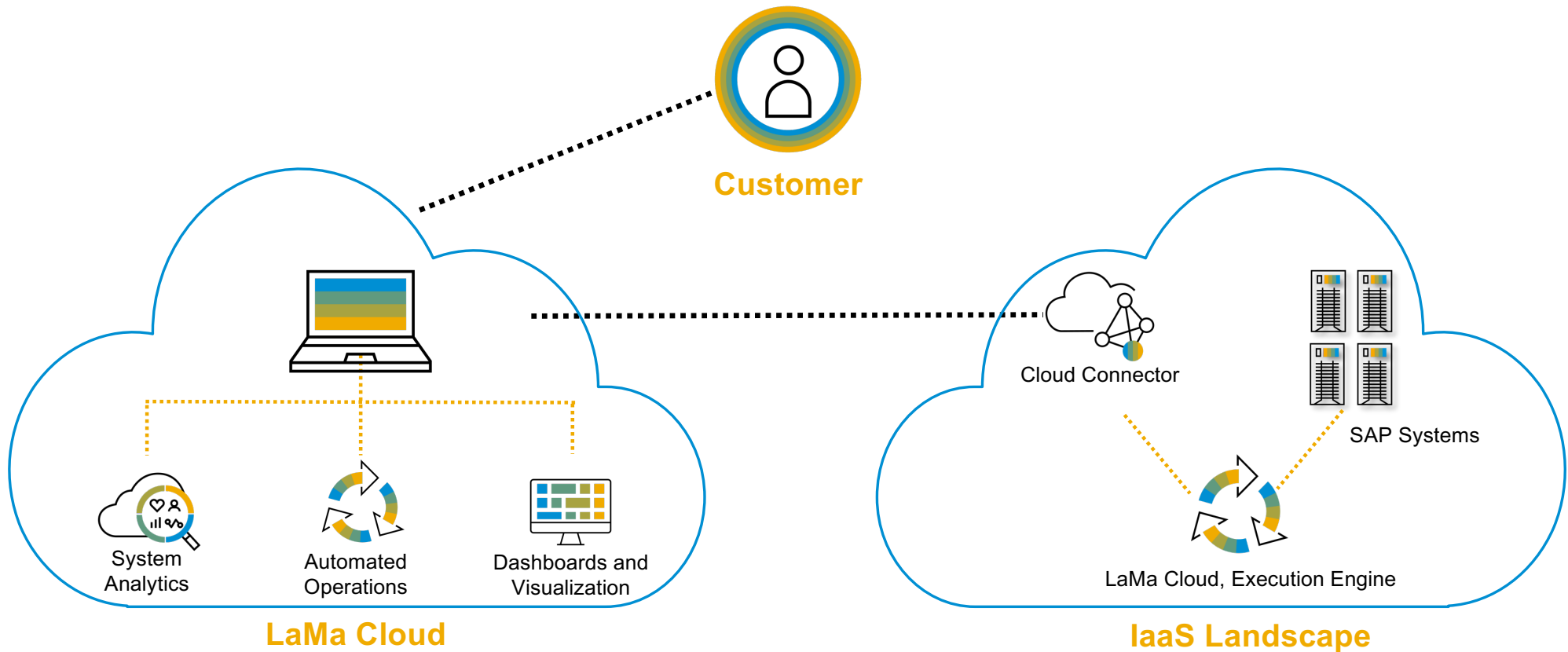
Lead Product Manager, SAP Cloud & Lifecycle Management Products

[adarsh.s.kapoor@sap.com](mailto:adarsh.s.kapoor@sap.com)



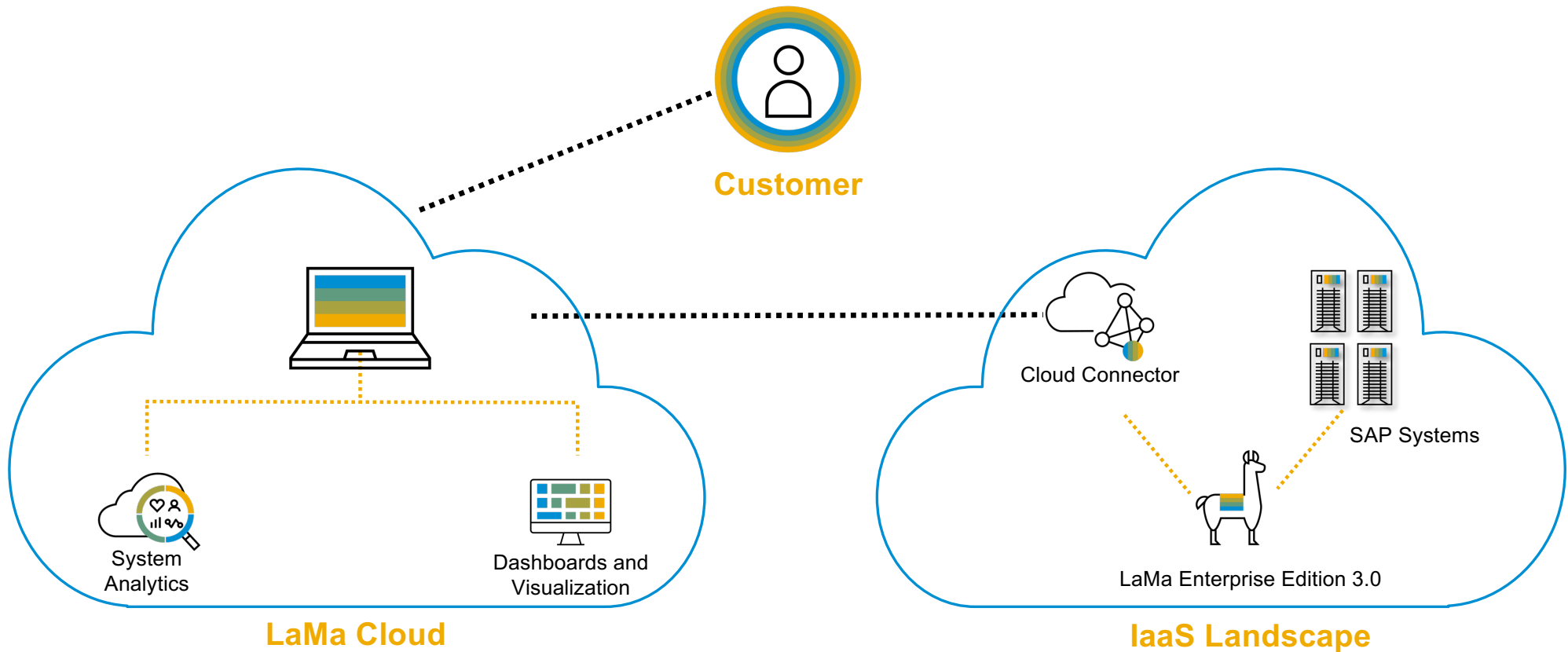
# SAP Landscape Management Cloud (LaMa Cloud)

High level landscape setup – using LaMa Cloud Execution Engine as landscape agent



# SAP Landscape Management Cloud (LaMa Cloud)

High level landscape setup – using LaMa Enterprise Edition 3.0 as landscape agent



## Create new availability patterns

SAP

SAP Landscape Management Cloud TRIAL

Trial Ends in 4 weeks Buy now Latest Discovery Time: 2022-01-20 11:51:00 Refresh ? ? ?

Dashboard

Landscape Management

Optimization

Operations

Automation Studio

Availability Patterns

Analytics

Configuration

Systems

System Groups

Settings

Currency

Development Group Pattern

Pattern

Pattern Details

Summary

Pattern Type:

☒ Ongoing ☐ Time-Limited

Pattern Name:

\* Development Group Pattern

Created:

today

Last Modified:

today

Created By:

Customer

Time Slots

Add Collapse All

Time Slot 1: 16:00-22:00 (Saturday, Sunday)

Scaled In

Status:

☐ Running ☒ Scaled In

Start/End Time:

16:00 22:00

Occurrence:

M T W T F S S

Description

Group pattern for development systems including scaled-in

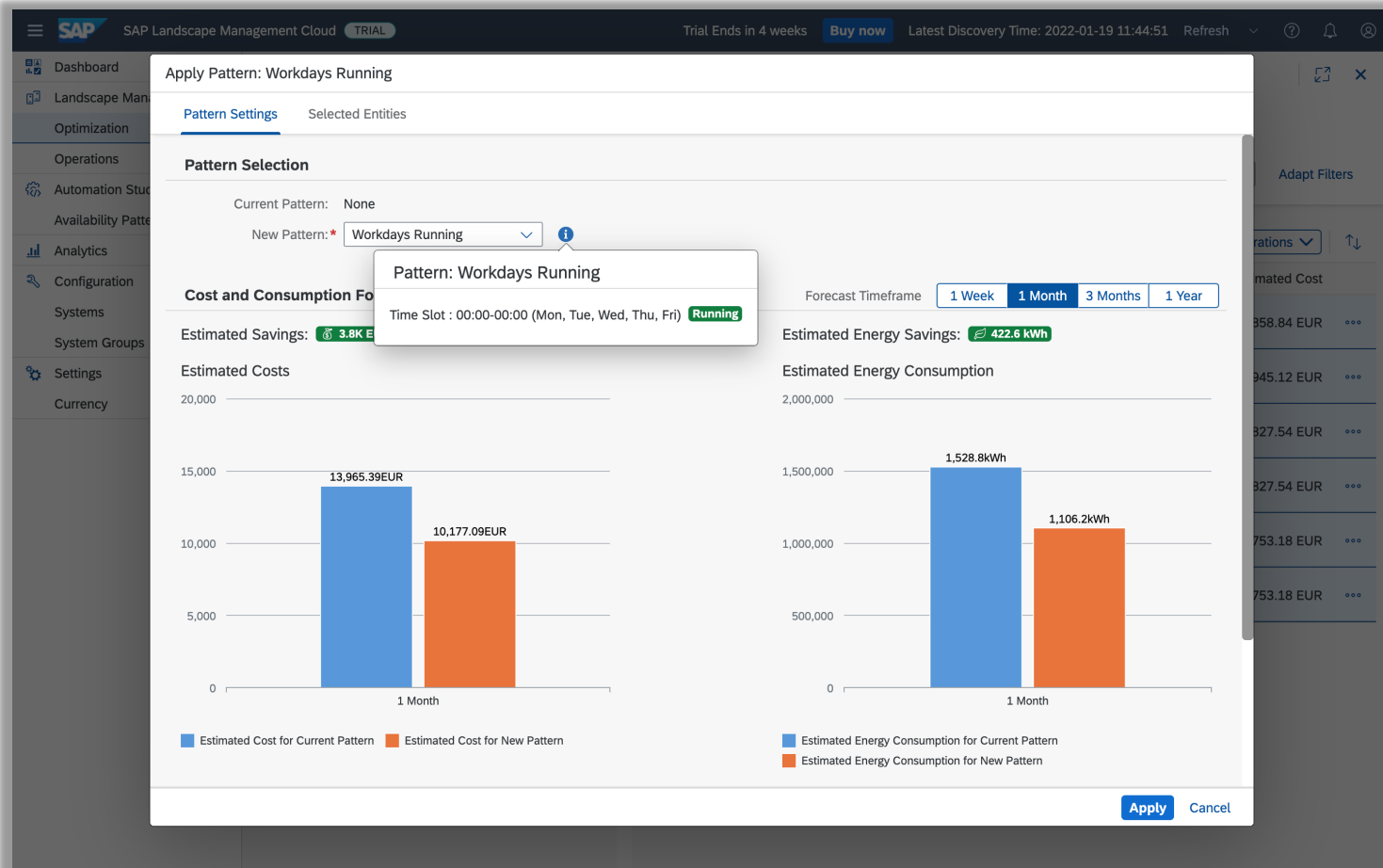
193 characters remaining

Save Cancel



# SAP Landscape Management Cloud (LaMa Cloud)

Apply a default pattern, or a customized pattern



# SAP Landscape Management Cloud (LaMa Cloud)

Systems and cost overview with active pattern

The screenshot displays the SAP Landscape Management Cloud (LaMa Cloud) interface. The top navigation bar includes the SAP logo, the text "SAP Landscape Management Cloud TRIAL", and a "Buy now" button. It also shows "Trial Ends in 4 weeks", "Latest Discovery Time: 2022-01-20 11:51:00", and a "Refresh" button. The left sidebar contains a menu with options: Dashboard, Landscape Management, Optimization (selected), Operations, Automation Studio, Availability Patterns, Analytics, Configuration, Systems, System Groups, Settings, and Currency.

The main content area is divided into two sections. The left section, titled "Optimization", shows "Estimated Cost 19.7K EUR" and "Estimated Savings 4.2K EUR". It includes search fields for "Name:" and "Number of Systems:", and a dropdown for "Estimated Cost:" set to "All". Below this, "System Groups (2)" are listed: "Production (4 Systems)" with an "AWS" tag and "10K EUR Estimated Monthly Cost", and "Non-Production (6 Systems)" with an "AWS" tag and "9.8K EUR Estimated Monthly Cost".

The right section, titled "Non-Production", shows a list of systems. The table has columns: Status/Name, Applied Pattern/Operation, Time Zone, and Estimated Cost. All systems are in "Workdays Running" status and "UTC+01:00" time zone.

Status/Name	Applied Pattern/Operation	Time Zone	Estimated Cost
D01: NetWeaver ABAP 7.50, d01cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,307.08 EUR
D02: NetWeaver ABAP 7.50, d02cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	669.27 EUR
Q00: NetWeaver ABAP 7.50, q00cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,976.64 EUR
Q01: NetWeaver ABAP 7.50, q01cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,976.64 EUR
S00: NetWeaver ABAP 7.50, s00cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,924.67 EUR
S01: NetWeaver ABAP 7.50, s01cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,924.67 EUR

# SAP Landscape Management Cloud (LaMa Cloud)

Refreshing SAP systems deployed on IaaS – system refresh workflow

Operation: Refresh System

Source System >> Database Restore >> Network Isolation >> Post-Copy Automation >> Review

Review your entries and ensure you can restore the target database manually if errors occur.

Source System

Source System: P7A: SAP NetWeaver for ABAP 7.55, vlcqp7acs.lama.cloud  
Target System: TWO: SAP NetWeaver for ABAP 7.81, lcqvtwocs.lama.cloud

Edit

Database Restore

Path to File-Based Data Backup: /mnt/backup/P7H\_LAMA  
Database User for Target System: BACKUP\_ADMIN  
Database User Password for Target System: \*\*\*\*\*  
ABAP Database Schema User: SAPHANADB  
Target ABAP Database Schema User Password: \*\*\*\*\*  
Source ABAP Database Schema User Password: \*\*\*\*\*

Edit

Network Isolation

Allowed Outgoing Traffic on Hosts: localhost  
Allowed Outgoing Traffic on Ports: 2049, 389, 636, 3020, 445  
Remove Network Isolation: Yes

Edit

Post-Copy Automation

Task List Runs: Client: 000 | Task List: SAP\_BASIS\_COPY\_REFRESH  
Client: 001 | Task List: SAP\_BASIS\_COPY\_BDLS

Edit

Perform Operation

Cancel

# SAP Landscape Management Cloud (LaMa Cloud)

Refreshing SAP systems deployed on IaaS – system refresh activity overview

The screenshot displays the SAP Landscape Management Cloud (LaMa Cloud) interface. The left sidebar contains navigation options: Dashboard, Landscape Management, Optimization, Operations, Activities History (selected), Automation Studio, Patterns, Analytics, Costs, Energy Consumption, Reservation Utilization, Configuration, Discovery Portal, Managed Systems, System Groups, Accounts, Roles, Settings, and Currency.

The main area is divided into three sections:

- Activities History:** Includes filters for Name, Status, ID, Start Time, Entity Name, Source Type, and System Group. It shows a list of activities, with 'Refresh System' being the selected activity.
- Refresh System:** Displays the activity details, including a list of steps (17) and their status.
- Steps (17):** A table showing the sequence of steps in the refresh process.

The 'Steps (17)' table is as follows:

Status / Name	Duration	Step Number	Next	Previous	Entity
✓ Run Task List Start Time: 2022-08-25 15:52:40	00:08:34	1	2		TWO AS Instanc lcqwtwopas.lam
✓ Get License Export Path from Task Start Time: 2022-08-25 16:01:14	00:00:11	2	3	1	TWO AS Instanc lcqwtwopas.lam
✓ Export Task List Run Start Time: 2022-08-25 16:01:25	00:00:11	3	4, 5	2	TWO AS Instanc lcqwtwopas.lam
✓ Stop Instance Start Time: 2022-08-25 16:01:36	00:00:41	4	6	3	TWO AS Instanc lcqwtwopas.lam
✓ Stop Instance Start Time: 2022-08-25 16:01:36	00:00:41	5	6	3	TWO AS Instanc lcqwtwoas.lam
✓ Stop Tenant Start Time: 2022-08-25 16:02:17	00:01:02	6	7	4, 5	PAC@PAC SAP Tenant DB: HDB lcqvpacdbp.lam
✓ Restore Tenant Database Start Time: 2022-08-25 16:03:19	00:17:07	7	8	6	PAC@PAC SAP Tenant DB: HDB lcqvpacdbp.lam
✓ Install SAP License Start Time: 2022-08-25 16:20:27	00:00:14	8	9, 10	7	TWO AS Instanc lcqwtwoas.lam
✓ Establish Network Isolation Start Time: 2022-08-25 16:20:41	00:00:01	9	11, 12	8	TWOPACsyste -PAS2

# SAP Landscape Management Cloud (LaMa Cloud)

Management of SAP systems – graceful shutdown of a system

The screenshot displays the SAP Landscape Management Cloud (LaMa Cloud) interface. The top navigation bar includes the SAP logo, the text "SAP Landscape Management Cloud TRIAL", and a "Buy now" button. The trial period is indicated as "Trial Ends in 4 weeks". The latest discovery time is "2022-01-20 11:51:00". The interface is divided into a left sidebar with navigation options and a main content area.

**Left Sidebar Navigation:**

- Dashboard
- Landscape Management
  - Optimization
  - Operations
- Automation Studio
  - Availability Patterns
- Analytics
- Configuration
  - Systems
  - System Groups
- Settings
  - Currency

**Main Content Area:**

**Operations**

Filters: Name:  Status:  System Group:  Execution Status:  [Adapt Filters](#)

**Systems (10)**

<input type="checkbox"/>	System Status/Name	System Group	Execution Status	
<input checked="" type="checkbox"/>	✓ A42: NetWeaver ABAP 7.50, a42cs.example.com	Production		
<input type="checkbox"/>	✓ A4H: NetWeaver ABAP 7.50, a4hcs.example.com	Production		
<input type="checkbox"/>	✓ D01: NetWeaver ABAP 7.50, d01cs.example.com	Non-Production		...
<input type="checkbox"/>	✓ D02: NetWeaver ABAP 7.50, d02cs.example.com	Non-Production		...
<input type="checkbox"/>	✓ P00: NetWeaver ABAP 7.50, p00cs.example.com	Production		...
<input type="checkbox"/>	✓ P01: NetWeaver ABAP 7.50, p01cs.example.com	Production		...
<input type="checkbox"/>	✓ Q00: NetWeaver ABAP 7.50, q00cs.example.com	Non-Production		...
<input type="checkbox"/>	✓ Q01: NetWeaver ABAP 7.50, q01cs.example.com	Non-Production		...
<input type="checkbox"/>	✓ S00: NetWeaver ABAP 7.50, s00cs.example.com	Non-Production		...
<input type="checkbox"/>	✓ S01: NetWeaver ABAP 7.50, s01cs.example.com	Non-Production		...

A context menu is open over the first system (A42), showing the following options:

- Start
- Stop
- Stop Gracefully

# SAP Landscape Management Cloud (LaMa Cloud)

Management of SAP systems – stopping an entire group of systems (mass-stop)

The screenshot displays the SAP Landscape Management Cloud (LaMa Cloud) interface. The top navigation bar includes the SAP logo, the text "SAP Landscape Management Cloud TRIAL", and a "Buy now" button. The trial period is indicated as "Trial Ends in 4 weeks". The latest discovery time is "2022-01-20 11:51:00". The interface is divided into a left sidebar with navigation options and a main content area.

**Left Sidebar:**

- Dashboard
- Landscape Management
  - Optimization
  - Operations
- Automation Studio
  - Availability Patterns
- Analytics
- Configuration
  - Systems
  - System Groups
- Settings
  - Currency

**Main Content Area:**

**Operations**

Filters: Name:  Status:  System Group:  Execution Status:  [Adapt Filters](#)

**Systems (10)**

<input checked="" type="checkbox"/>	System Status/Name	System Group	Execution Status	
<input checked="" type="checkbox"/>	✓ A42: NetWeaver ABAP 7.50, a42cs.example.com	Production		
<input checked="" type="checkbox"/>	✓ A4H: NetWeaver ABAP 7.50, a4hcs.example.com	Production		
<input checked="" type="checkbox"/>	✓ D01: NetWeaver ABAP 7.50, d01cs.example.com	Non-Production		...
<input checked="" type="checkbox"/>	✓ D02: NetWeaver ABAP 7.50, d02cs.example.com	Non-Production		...
<input checked="" type="checkbox"/>	✓ P00: NetWeaver ABAP 7.50, p00cs.example.com	Production		...
<input checked="" type="checkbox"/>	✓ P01: NetWeaver ABAP 7.50, p01cs.example.com	Production		...
<input checked="" type="checkbox"/>	✓ Q00: NetWeaver ABAP 7.50, q00cs.example.com	Non-Production		...
<input checked="" type="checkbox"/>	✓ Q01: NetWeaver ABAP 7.50, q01cs.example.com	Non-Production		...
<input checked="" type="checkbox"/>	✓ S00: NetWeaver ABAP 7.50, s00cs.example.com	Non-Production		...
<input checked="" type="checkbox"/>	✓ S01: NetWeaver ABAP 7.50, s01cs.example.com	Non-Production		...

A context menu is open over the table, showing the following options:

- Start
- Stop
- Stop Gracefully

# SAP Landscape Management Cloud (LaMa Cloud)

Management of SAP systems – snoozing a single system, or an entire group of systems

The screenshot displays the SAP Landscape Management Cloud (LaMa Cloud) interface. The top navigation bar includes the SAP logo, the product name, a 'TRIAL' badge, and a 'Buy now' button. The main content area is divided into three sections: Optimization, System Groups, and Non-Production.

**Optimization Section:**

- Estimated Cost: 19.7K EUR
- Estimated Savings: 4.2K EUR
- Search bar for Name and Number of Systems.
- Estimated Cost dropdown set to 'All'.
- 'Adapt Filters' button.

**System Groups Section:**

- Production (4 Systems) (AWS): 10K EUR Estimated Monthly Cost.
- Non-Production (6 Systems) (AWS): 9.8K EUR Estimated Monthly Cost.

**Non-Production Section:**

- Group Name: Search bar.
- Status: All.
- Target Status: All.
- Applied Pattern/Operation: All.
- 'Adapt Filters' button.
- Systems (6) table with columns: Status/Name, Applied Pattern/Operation, Time Zone, and Cost.

**Systems Table:**

✓	Status/Name	Applied Pattern/Operation	Time Zone	Cost	...
✓	D01: NetWeaver ABAP 7.50, d01cs.example.com Target Status: <span>Running</span>	Workdays Running	(UTC+01:00)		
✓	D02: NetWeaver ABAP 7.50, d02cs.example.com Target Status: <span>Running</span>	Workdays Running	(UTC+01:00)	669.01 EUR	...
✓	Q00: NetWeaver ABAP 7.50, q00cs.example.com Target Status: <span>Running</span>	Workdays Running	(UTC+01:00)	1,975.82 EUR	...
✓	Q01: NetWeaver ABAP 7.50, q01cs.example.com Target Status: <span>Running</span>	Workdays Running	(UTC+01:00)	1,975.82 EUR	...
✓	S00: NetWeaver ABAP 7.50, s00cs.example.com Target Status: <span>Running</span>	Workdays Running	(UTC+01:00)	1,923.87 EUR	...
✓	S01: NetWeaver ABAP 7.50, s01cs.example.com Target Status: <span>Running</span>	Workdays Running	(UTC+01:00)	1,923.87 EUR	...

**Operations Menu:**

- Operations (dropdown)
- + Apply Pattern
- Snooze Systems
- ✕ Remove Pattern

# SAP Landscape Management Cloud (LaMa Cloud)

Management of SAP systems – waking up a snoozed system

The screenshot displays the SAP Landscape Management Cloud (LaMa Cloud) interface. The top navigation bar includes the SAP logo, the text "SAP Landscape Management Cloud TRIAL", and a "Trial Ends in 4 weeks" message with a "Buy now" button. The right side of the header shows the "Latest Discovery Time: 2022-01-20 11:51:00" and a "Refresh" button.

The left sidebar contains a navigation menu with the following items: Dashboard, Landscape Management (expanded), Optimization (selected), Operations, Automation Studio (expanded), Availability Patterns, Analytics, Configuration (expanded), Systems, System Groups, Settings (expanded), and Currency.

The main content area is divided into three sections:

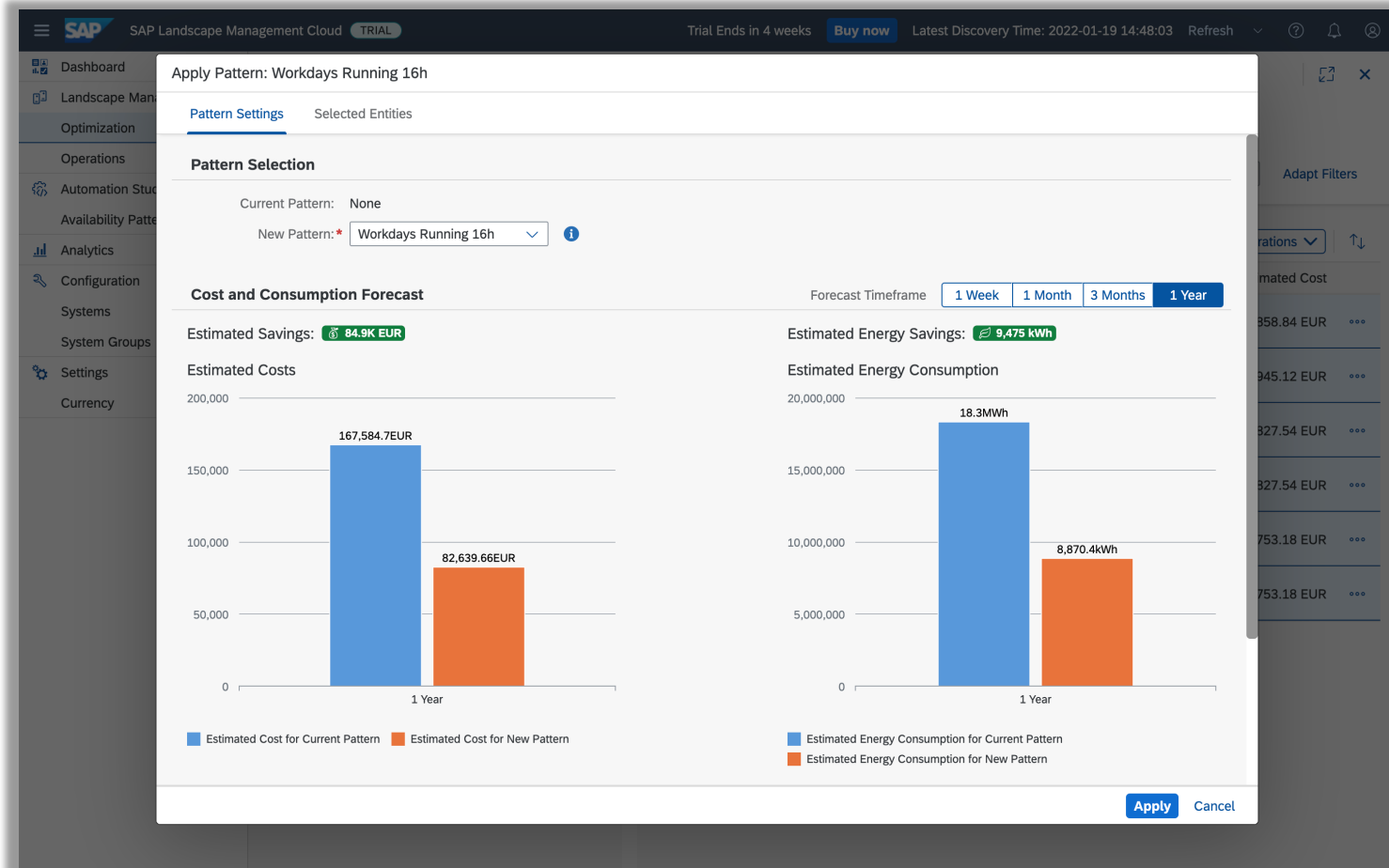
- Optimization:** Displays "Estimated Cost 18.5K EUR" and "Estimated Savings 5.5K EUR". It includes search fields for "Name:" and "Number of Systems:", an "Estimated Cost:" dropdown set to "All", and an "Adapt Filters" button.
- System Groups (2):** Shows two groups: "Production (4 Systems) AWS" with an estimated monthly cost of 10K EUR, and "Non-Production (6 Systems) AWS" with an estimated monthly cost of 8.5K EUR.
- Non-Production Group:** A detailed view of the Non-Production group showing a list of 6 systems. The first system, "D01: NetWeaver ABAP 7.50, d01cs.example.com", is in a "Snoozed" state with a "Target Status: Not Running". A context menu is open for this system, showing options: "Apply Pattern", "Wake Up Systems", and "Remove Snooze". The other five systems are in a "Running" state with a "Target Status: Running".

Status/Name	Applied Pattern/Operation	Time Zone	Cost
<input checked="" type="checkbox"/> D01: NetWeaver ABAP 7.50, d01cs.example.com Target Status: Not Running	Snoozed	(UTC)	
<input type="checkbox"/> D02: NetWeaver ABAP 7.50, d02cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	668.97 EUR
<input type="checkbox"/> Q00: NetWeaver ABAP 7.50, q00cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,975.7 EUR
<input type="checkbox"/> Q01: NetWeaver ABAP 7.50, q01cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,975.7 EUR
<input type="checkbox"/> S00: NetWeaver ABAP 7.50, s00cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,923.75 EUR
<input type="checkbox"/> S01: NetWeaver ABAP 7.50, s01cs.example.com Target Status: Running	Workdays Running	(UTC+01:00)	1,923.75 EUR



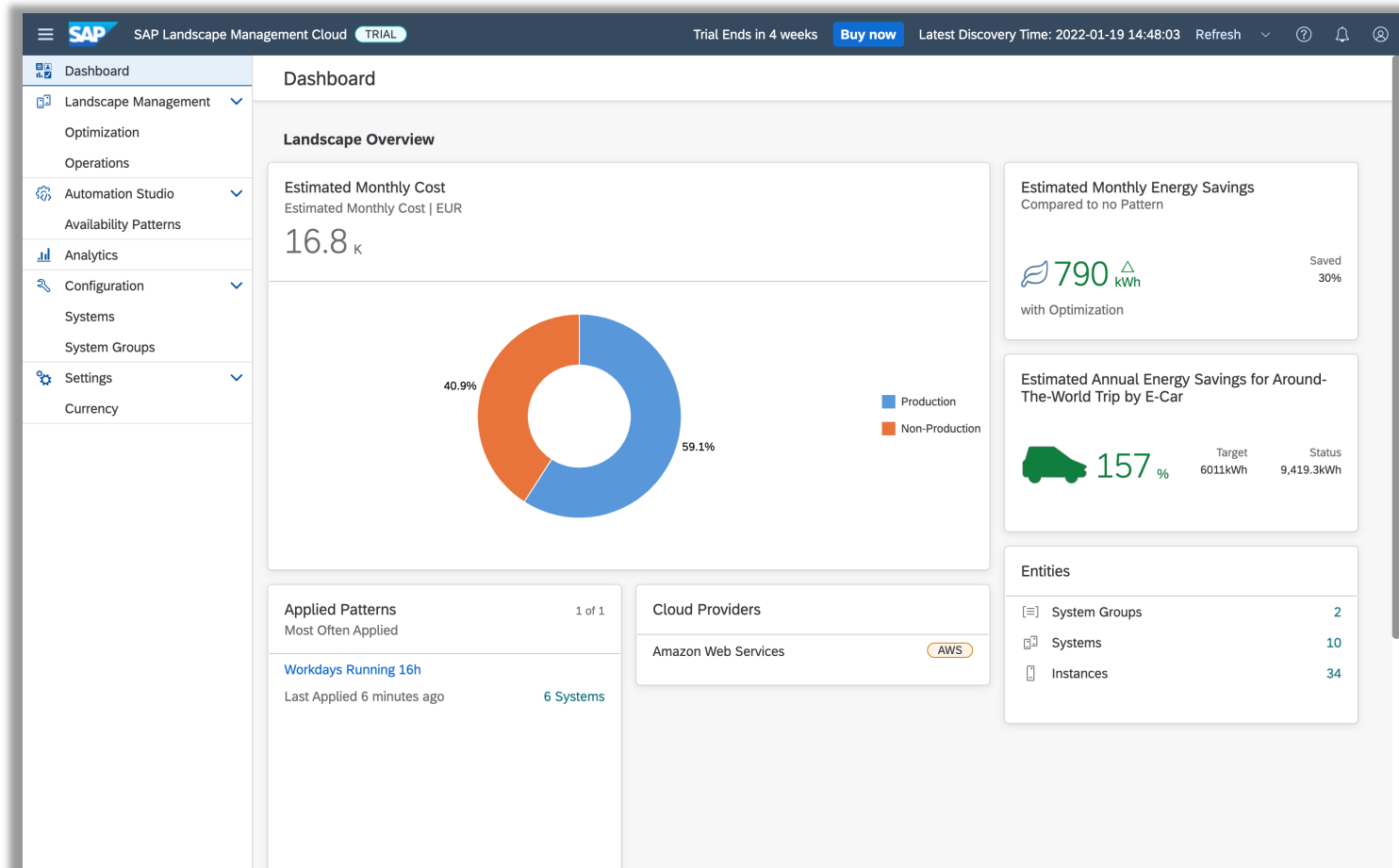
# SAP Landscape Management Cloud (LaMa Cloud)

Sustainable IaaS consumption – analyze and optimize running costs and energy consumption



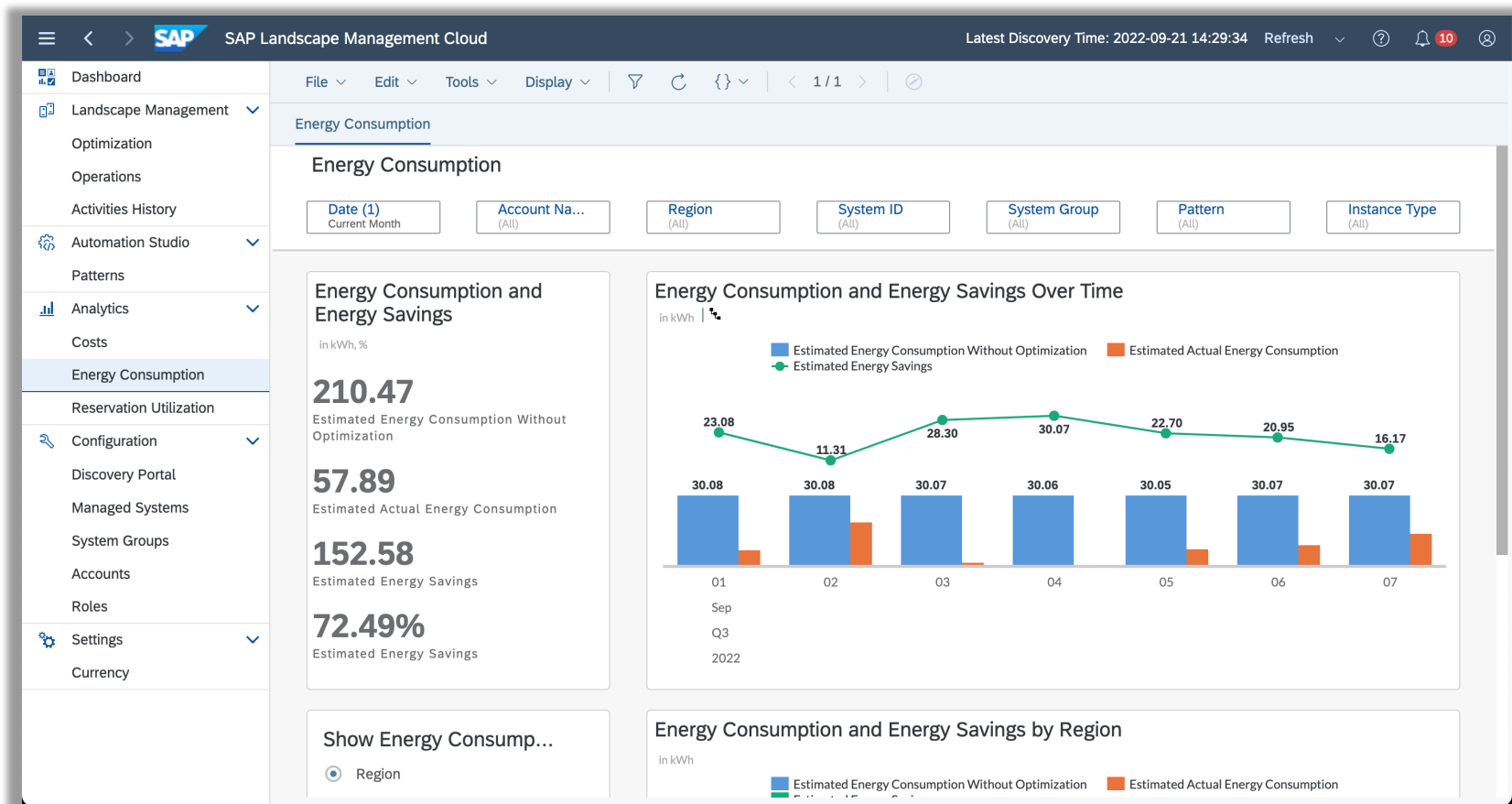
# SAP Landscape Management Cloud (LaMa Cloud)

Sustainable IaaS consumption – get energy savings estimates using optimizations



# SAP Landscape Management Cloud (LaMa Cloud)

Analytics – energy consumption and energy savings view for the current month



# SAP Landscape Management Cloud (LaMa Cloud)

Analytics – system view to analyze costs for each system within your IaaS landscape

