Empowering Efficient SAP System Management With SAP BTP And SAP Landscape Management Cloud

Daniela Schmidt and Michael Jilg, SAP

SAPinsider 2023

Produced by Wellesley Information Services, LLC, publisher of SAPinsider. © 2023 Wellesley Information Services. All rights reserved.

Agenda

What is SAP Landscape Management Cloud

SAP Landscape Management Cloud combinations

Event Driven Automatisation

Live Demonstration

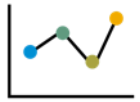
Wrap-Up

What is SAP Landscape Management Cloud

SAP Landscape Management Cloud

Key use cases

Get insights into your IaaS consumption



Spending Overview

Region View

System View

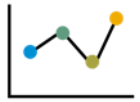
Actual vs. estimated costs

Analyse cost and energy consumption

SAP Landscape Management Cloud

Key use cases

Get insights into your IaaS consumption



Spending Overview

Region View

System View

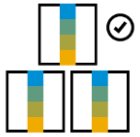
Analyse cost and energy consumption

Actual vs. estimated costs

Optimize costs and energy consumption

Built-in and custom schedules

Scale-in / scale-out application servers



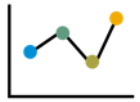
Management of reserved instances

Snooze and awake systems

SAP Landscape Management Cloud

Key use cases

Get insights into your IaaS consumption



Spending Overview

Region View

System View

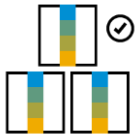
Actual vs. estimated costs

Analyse cost and energy consumption

Optimize costs and energy consumption

Built-in and custom schedules

Scale-in / scale-out application servers



Management of reserved instances

Snooze and awake systems

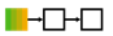
Simplify and centralize system management

Automated SAP system refreshes

Single/mass operations (start, stop)

Dashboards and system visualization

Integration with TDEM for data scrambling/slicing



Event-driven automation

SAP Landscape Management Cloud combination

SAP Landscape Management Cloud combinations

SAP BTP Services

SAP Alert Notification Service

SAP Event Mesh

Audit Log Viewer Service

Kyma Runtime

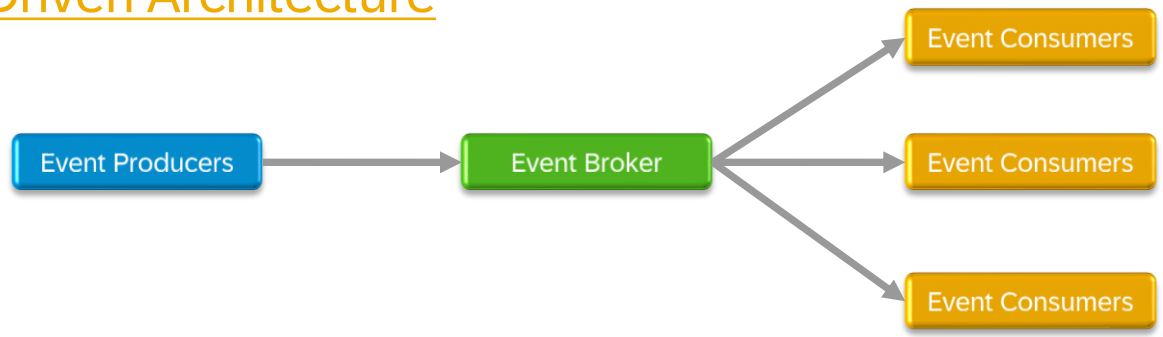
Cloud Foundry Runtime

Other Services

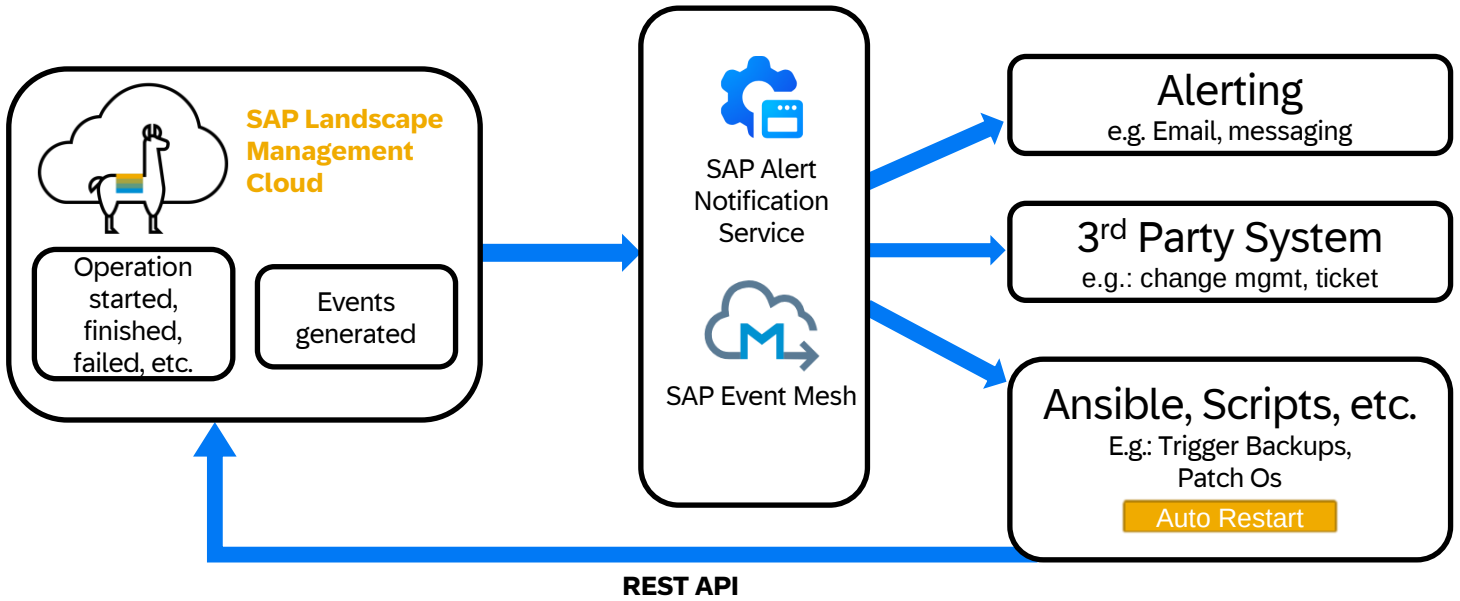
Event Driven Automatisation

Event Driven Automation

Event Driven Architecture

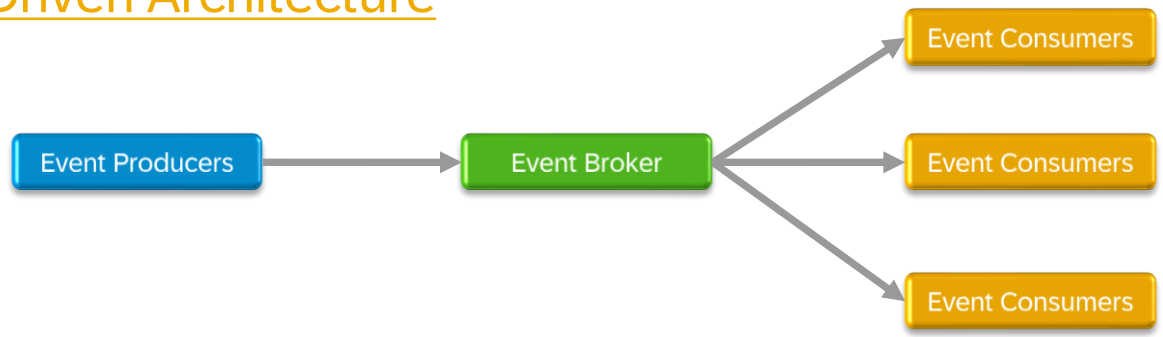


Event Driven Automation

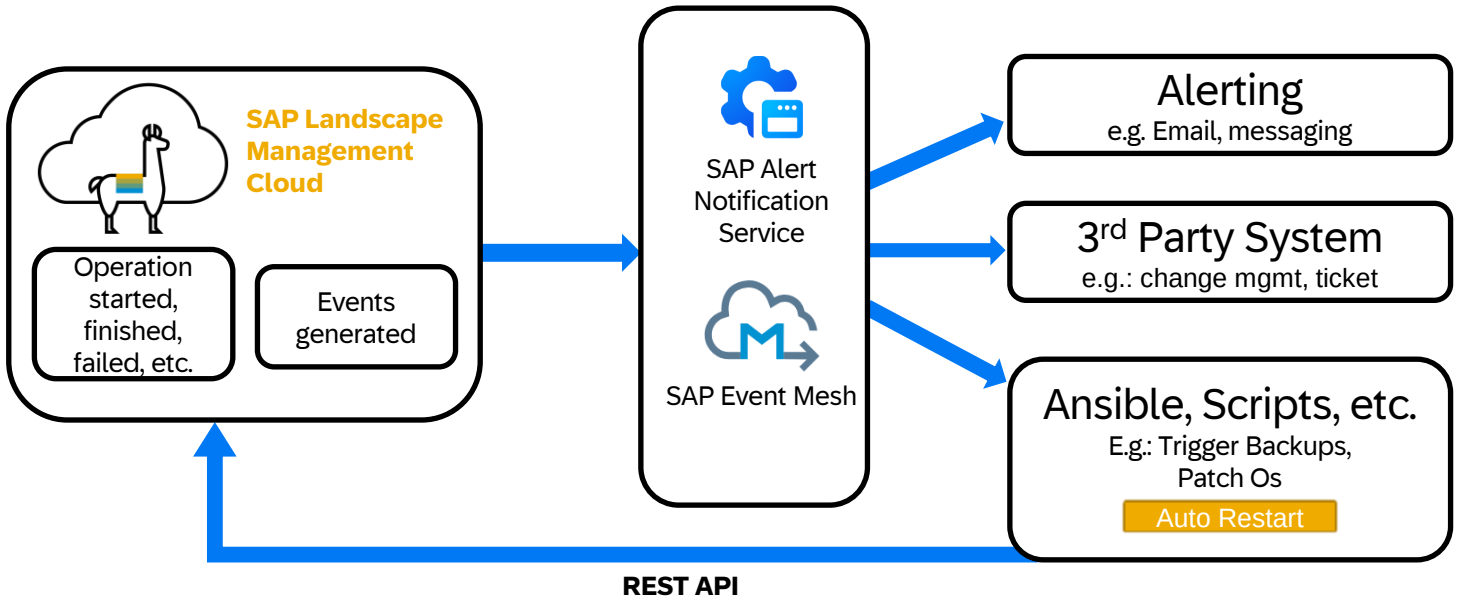


Event Driven Automation

Event Driven Architecture

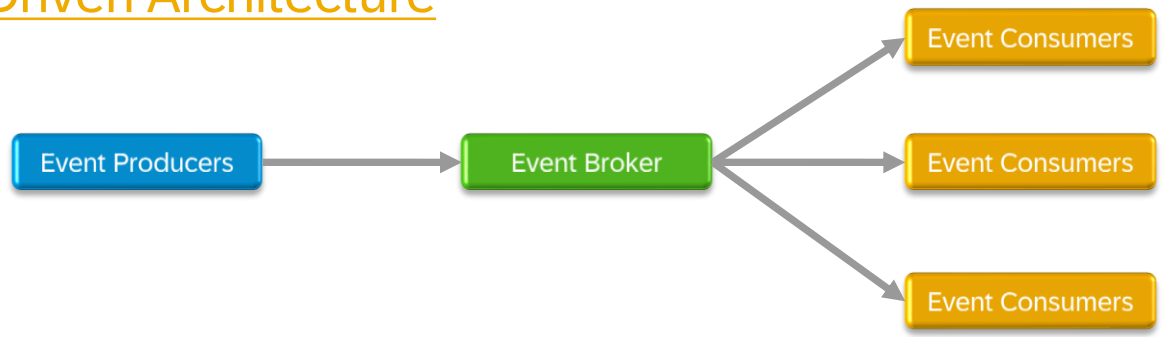


Event Driven Automation



Event Driven Automation

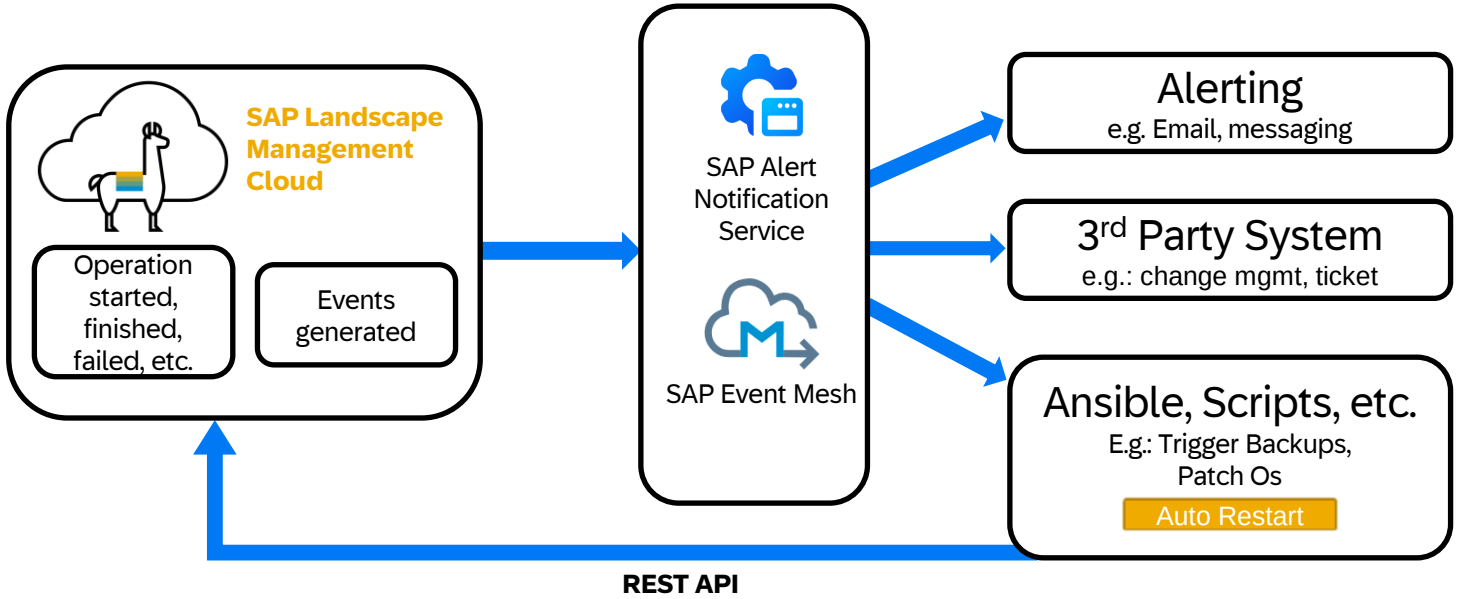
Event Driven Architecture



Increased Agility

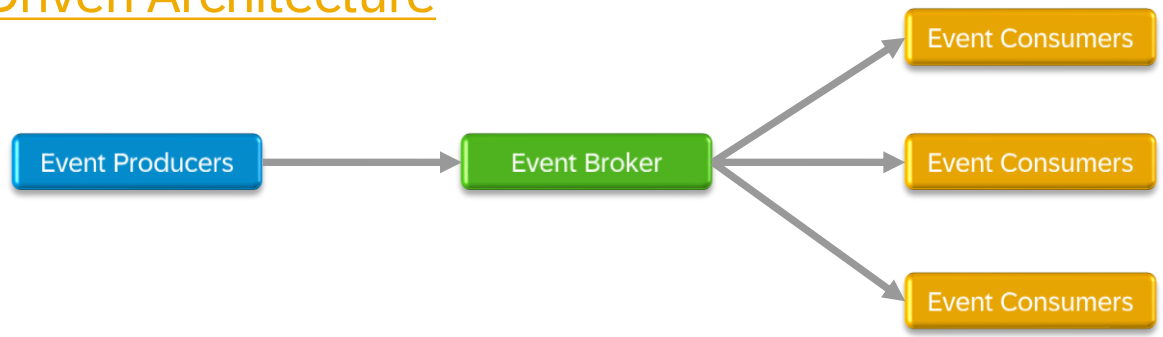
Respond immediately to system alerts or user action using events in real time

Event Driven Automation

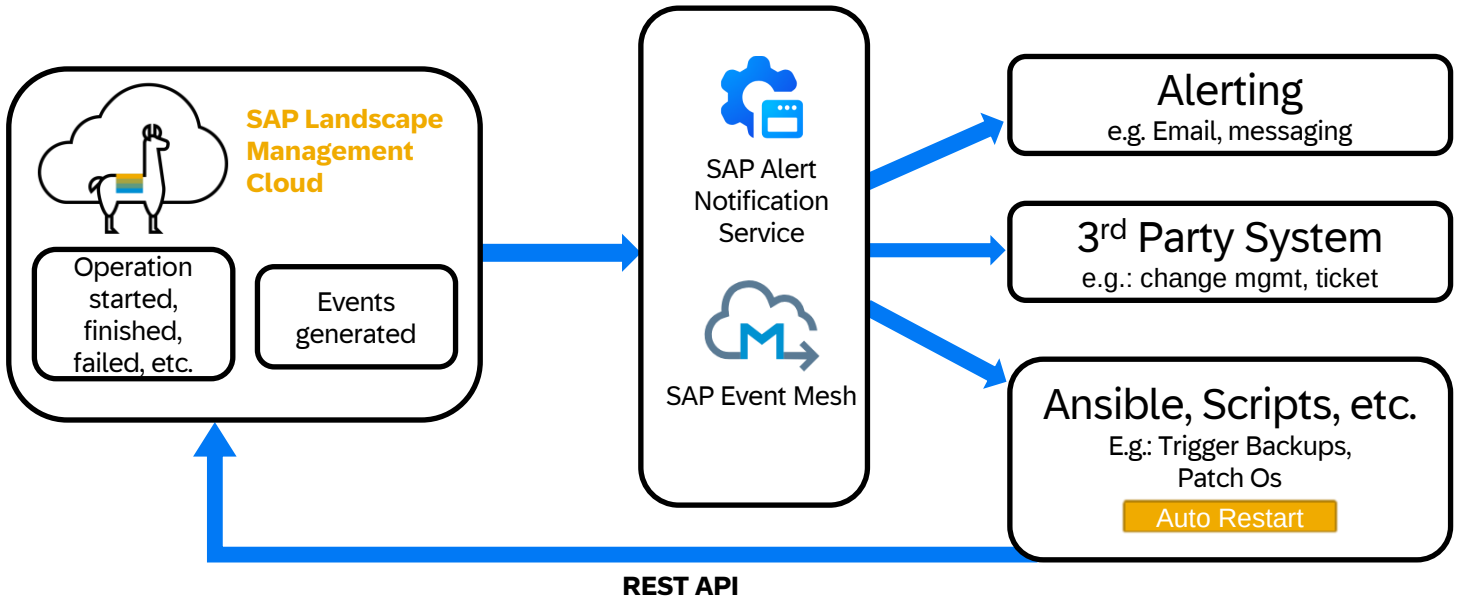


Event Driven Automation

Event Driven Architecture



Event Driven Automation



Increased Agility

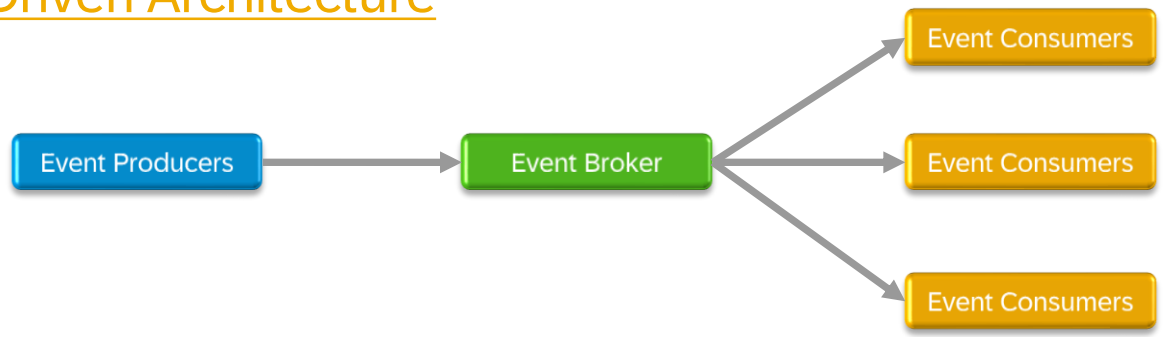
Respond immediately to system alerts or user action using events in real time

Conditional Logic

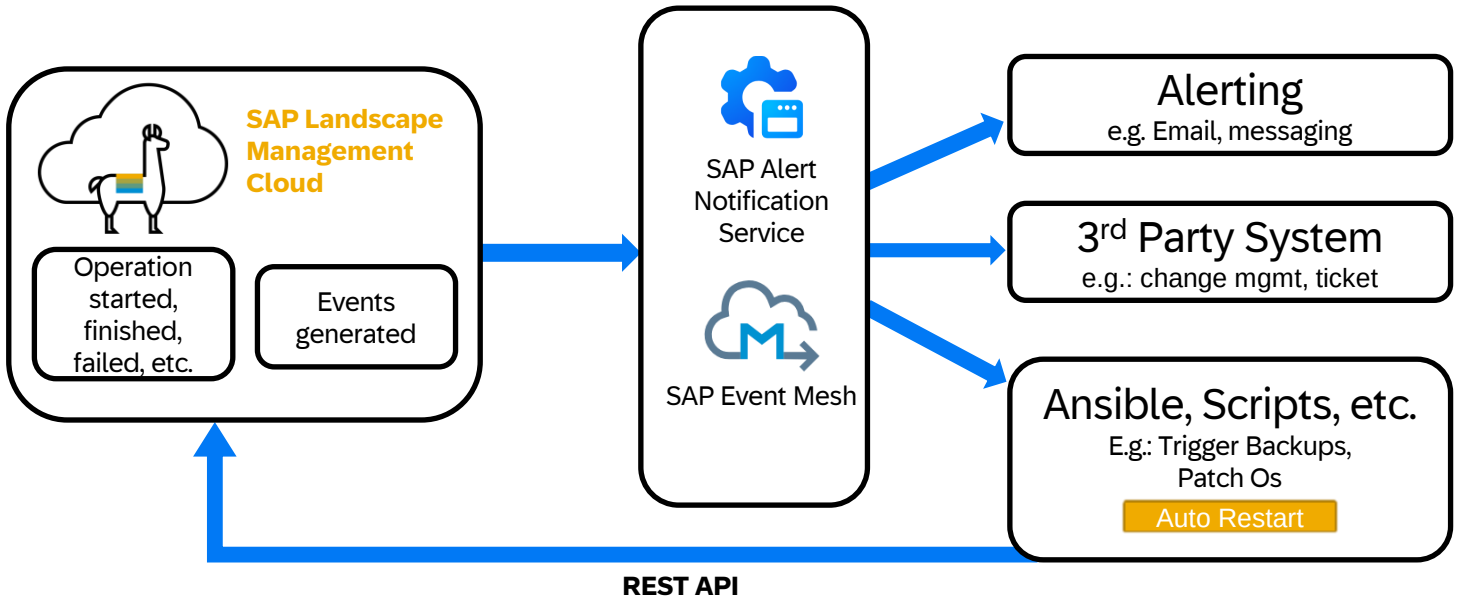
Decisions can be made based on event attributes (e.g. auto restart application server)

Event Driven Automation

Event Driven Architecture



Event Driven Automation



Increased Agility

Respond immediately to system alerts or user action using events in real time

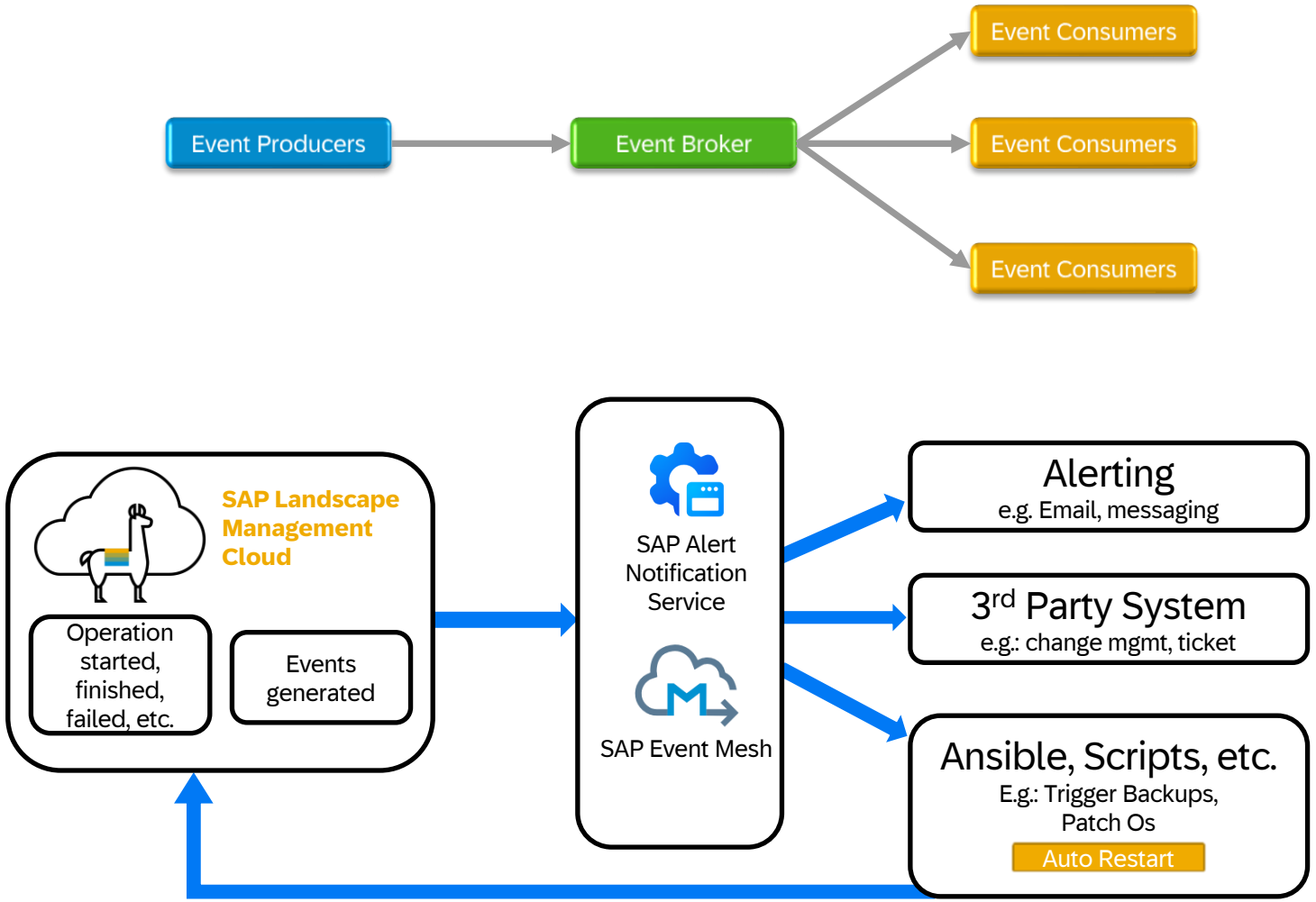
Conditional Logic

Decisions can be made based on event attributes (e.g. auto restart application server)

Easy Integration

SAP and non-SAP systems

Event Driven Automation



Increased Agility

Respond immediately to system alerts or user action using events in real time

Conditional Logic

Decisions can be made based on event attributes (e.g. auto restart application server)

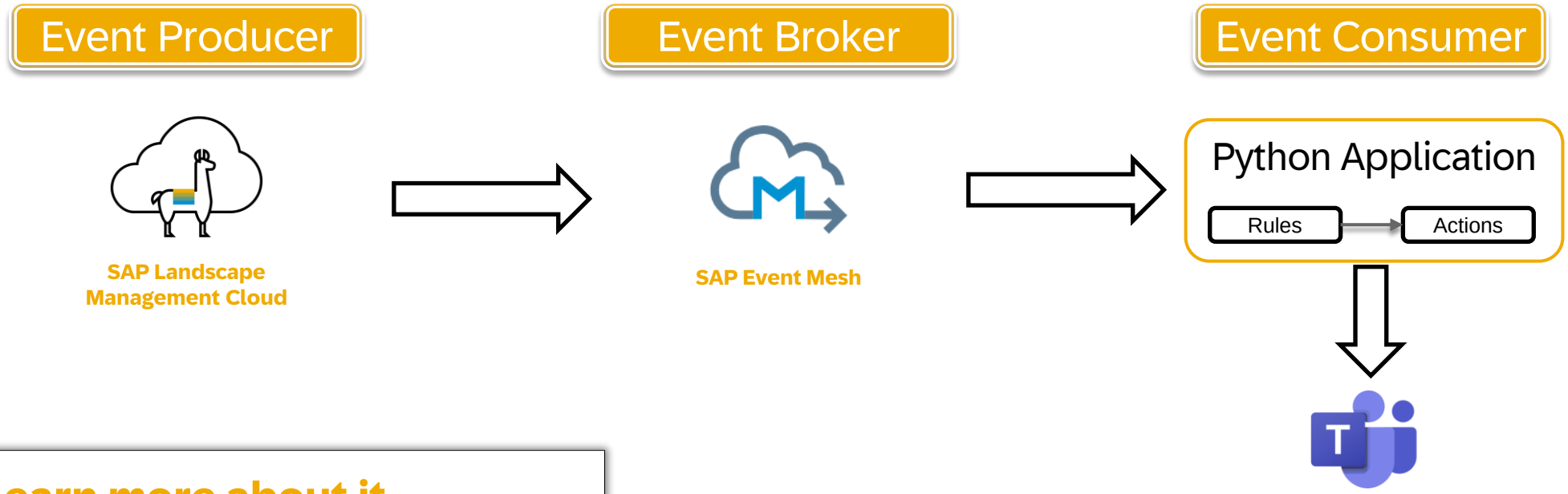
Easy Integration

SAP and non-SAP systems

Work better in Cloud

Leverage the extensive event driven capabilities in public clouds

Event Routing



Learn more about it

SAP Community Blog

SAP GitHub Sample Scripts

TechEd2023-XP287v

Live Demonstration

Cost-optimized SAP operation

Learn more

SAP Cloud Appliance Library

Find out more about the SAP Cloud Appliance Library and how you can use it to start your cloud journey

Documentation

Product Page

Customer Community

SAP Landscape Management

Discover SAP Landscape Management and the possibilities it offers to leave unnecessary ballast behind

Documentation

Product Page

Customer Community

SAP Landscape Management Cloud

Learn more about how SAP Landscape Management Cloud makes operating systems in the cloud easier and more cost-effective

Documentation

Product Page

Customer Community

Get the trial and try the hands on!

Try SAP Landscape Management Cloud with our free trial version

Try SAP Landscape Management Cloud

Discover SAP Landscape Management Cloud Public API

Wrap up

- Key use cases of SAP Landscape Management Cloud
- Possible combination of SAP Landscape Management Cloud
- Event Driven Automation with SAP Landscape Management Cloud
- Demo: Operations (Start, Stop, System Refresh), Optimization, Cost Analyzation, Event Routing, Public API
- Cost-optimized SAP operations

Key Points to Take Home

- Gain an understanding of the features and functionalities of SAP Landscape Management Cloud and SAP system management processes with a focus on SAP S/4HANA landscapes.
- Learn how to integrate SAP Landscape Management Cloud with other SAP BTP services using provided events and REST APIs.
- Discover where SAP Landscape Management Cloud can be leveraged to automate landscape management operations.
- Explore how the integration of SAP Landscape Management Cloud with SAP BTP can lead to enhanced productivity, streamlined operations, and improved system management efficiency.

Public

Thank you.

Contact information:

Daniela Schmidt
daniela.schmidt03@sap.com

Michael Jilg
michael.jilg@sap.com

Please remember to complete your session evaluation.

© 2023 SAP SE or an SAP affiliate company. All rights reserved. See Legal Notice on www.sap.com/legal-notice for use terms, disclaimers, disclosures, or restrictions related to this material.

SAPinsider

SAPinsider.org

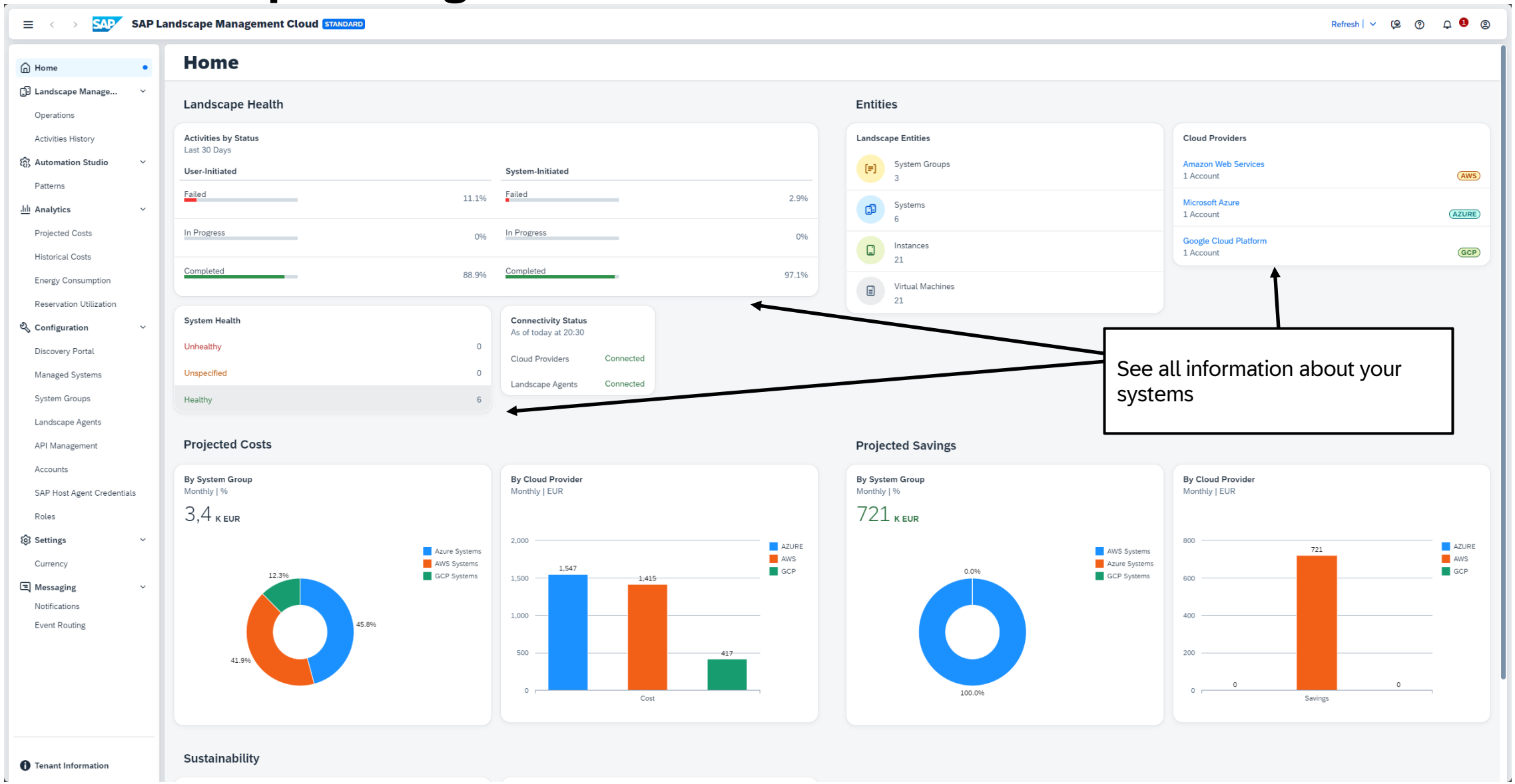
PO Box 982Hampstead, NH 03841
Copyright © 2023 Wellesley Information Services.
All rights reserved.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. Wellesley Information Services is neither owned nor controlled by SAP SE.

SAPinsider comprises the largest and fastest growing SAP membership group worldwide, with more than 750,000 global members.

Appendix

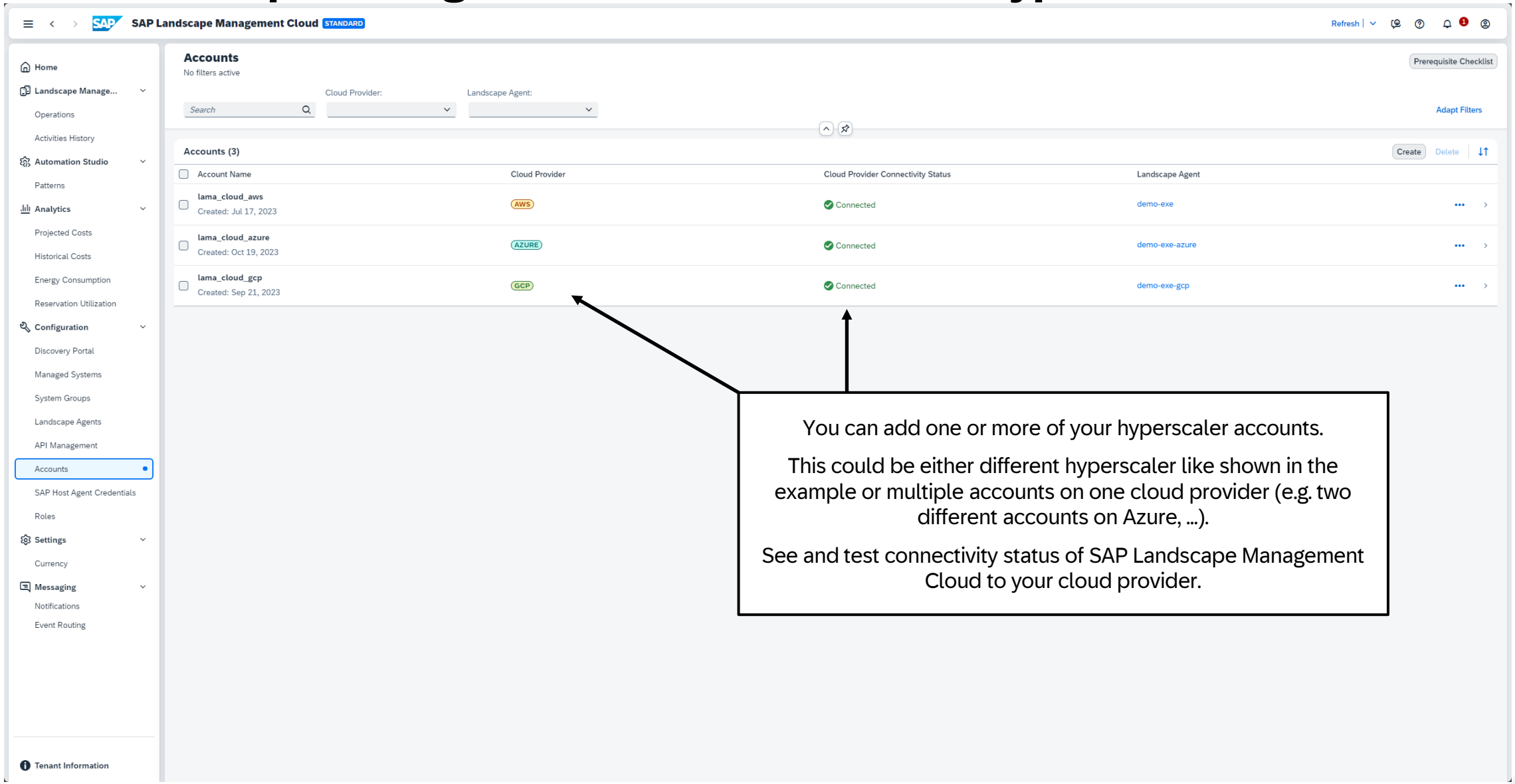
SAP Landscape Management Cloud – Information in One Glance



Public

SAPinsider

SAP Landscape Management Cloud – Add Your Hyperscaler Accounts



You can add one or more of your hyperscaler accounts.

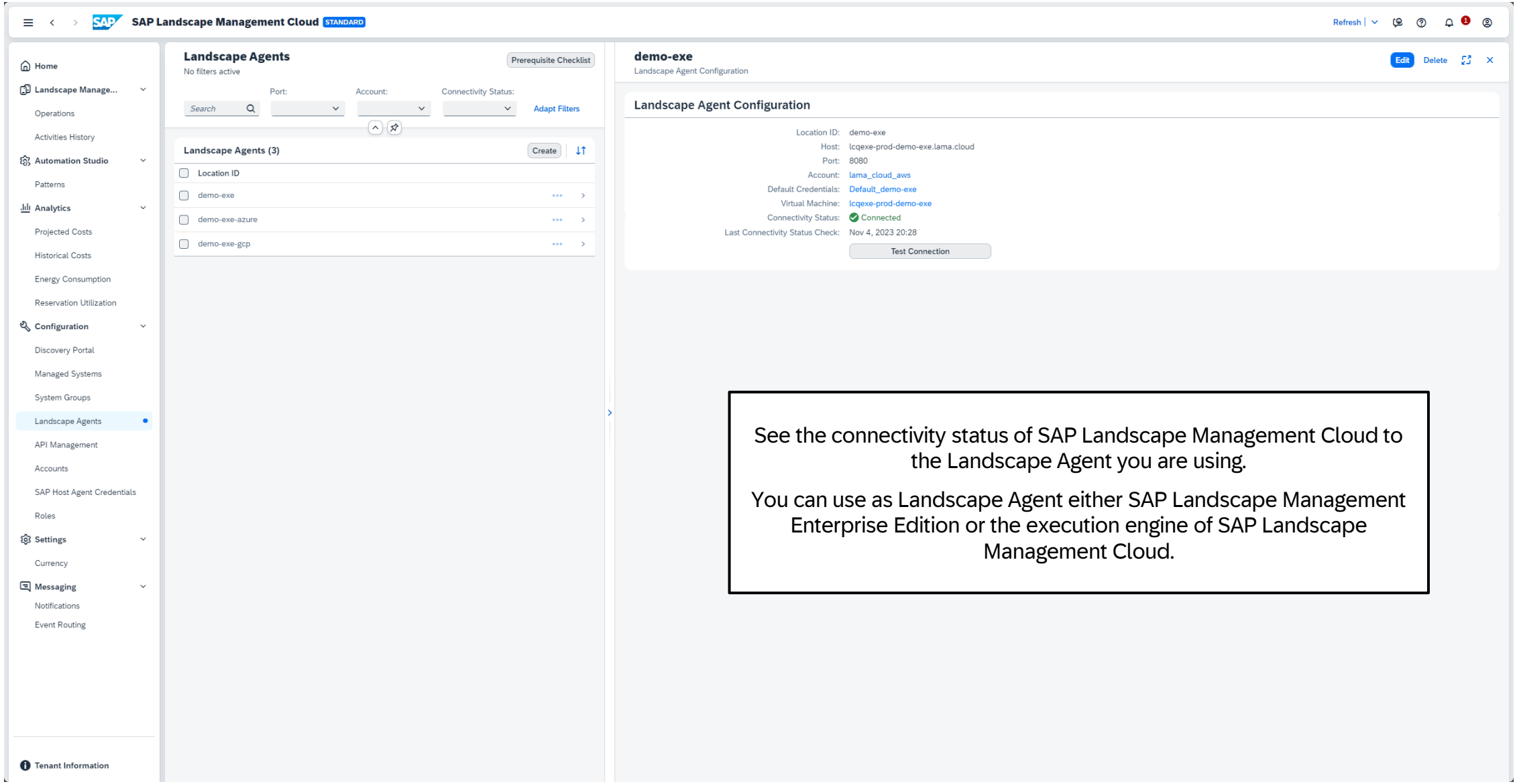
This could be either different hyperscaler like shown in the example or multiple accounts on one cloud provider (e.g. two different accounts on Azure, ...).

See and test connectivity status of SAP Landscape Management Cloud to your cloud provider.

Public

SAPinsider

SAP Landscape Management Cloud – Landscape Agent



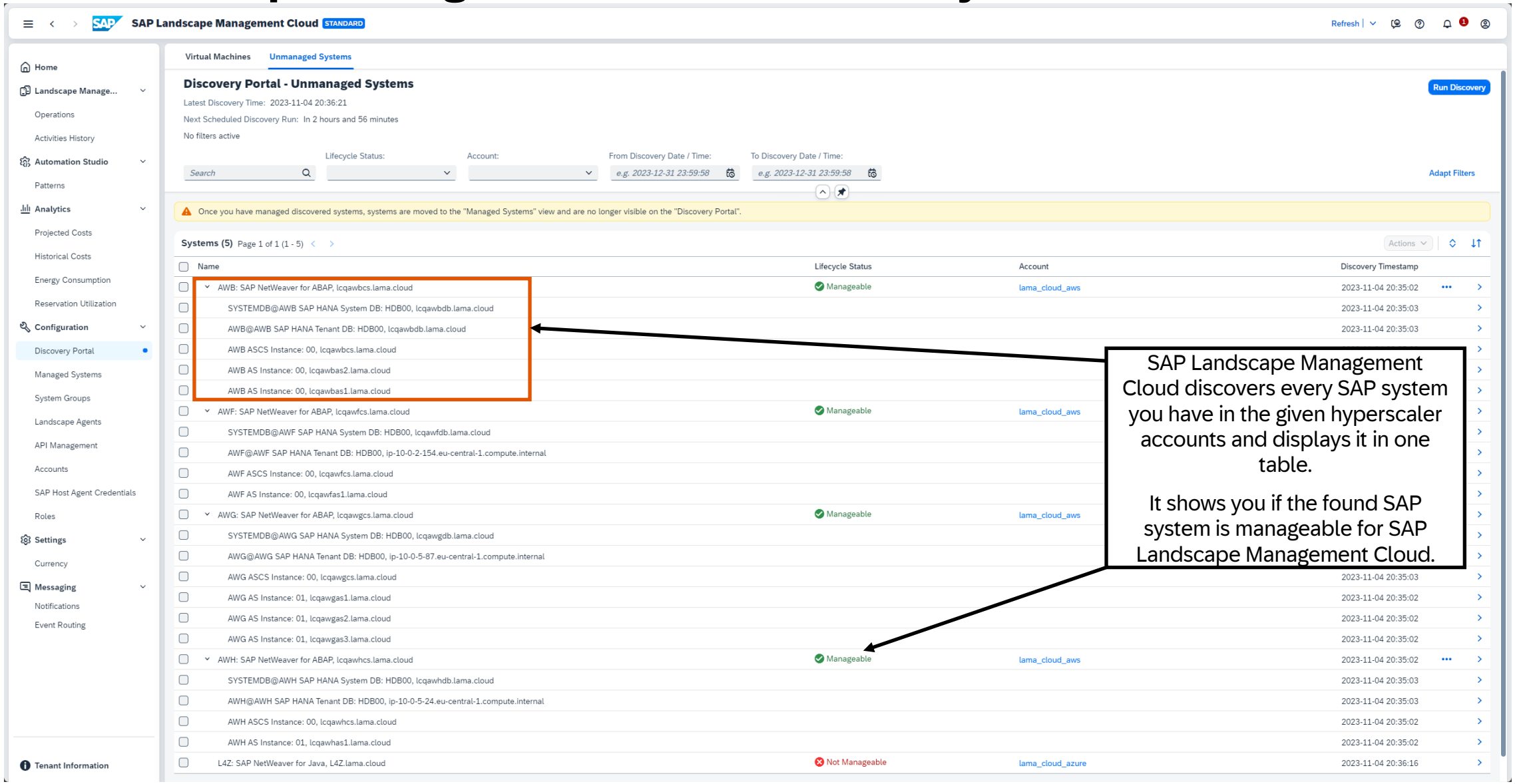
See the connectivity status of SAP Landscape Management Cloud to the Landscape Agent you are using.

You can use as Landscape Agent either SAP Landscape Management Enterprise Edition or the execution engine of SAP Landscape Management Cloud.

Public

SAPinsider

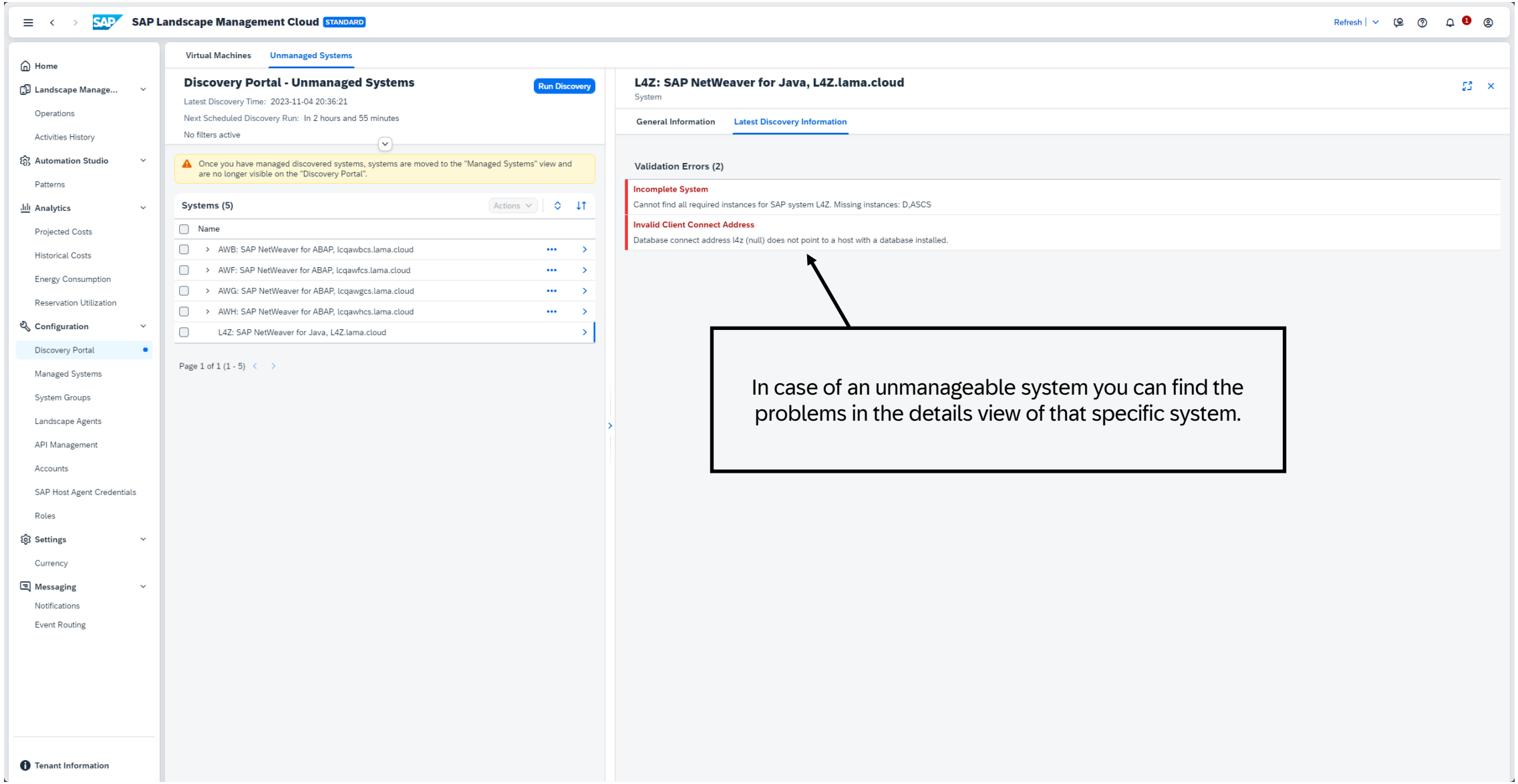
SAP Landscape Management Cloud – Discovery Portal



SAP Landscape Management Cloud discovers every SAP system you have in the given hyperscaler accounts and displays it in one table.

It shows you if the found SAP system is manageable for SAP Landscape Management Cloud.

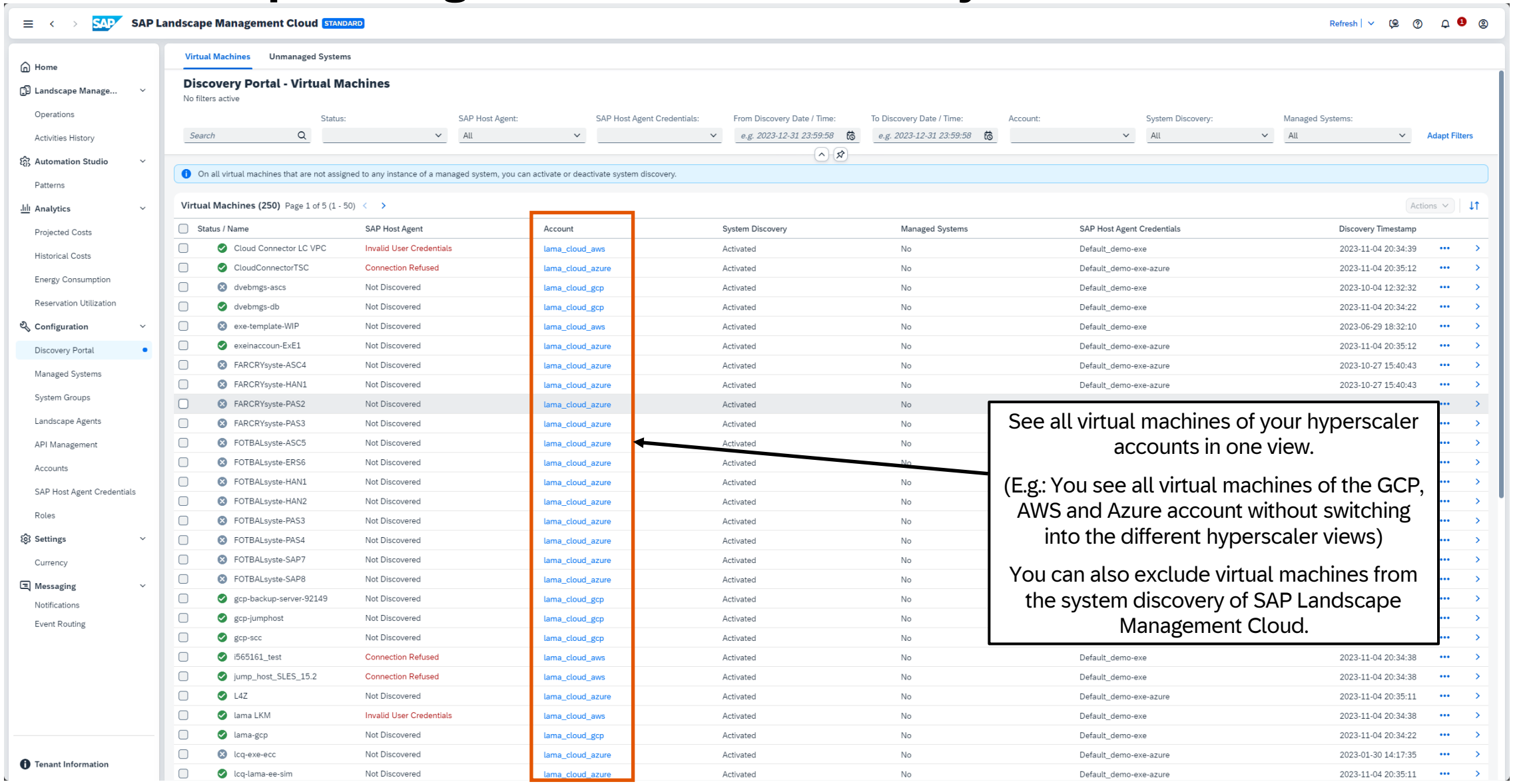
SAP Landscape Management Cloud – Discovery Portal



Public

SAPinsider

SAP Landscape Management Cloud – Discovery Portal

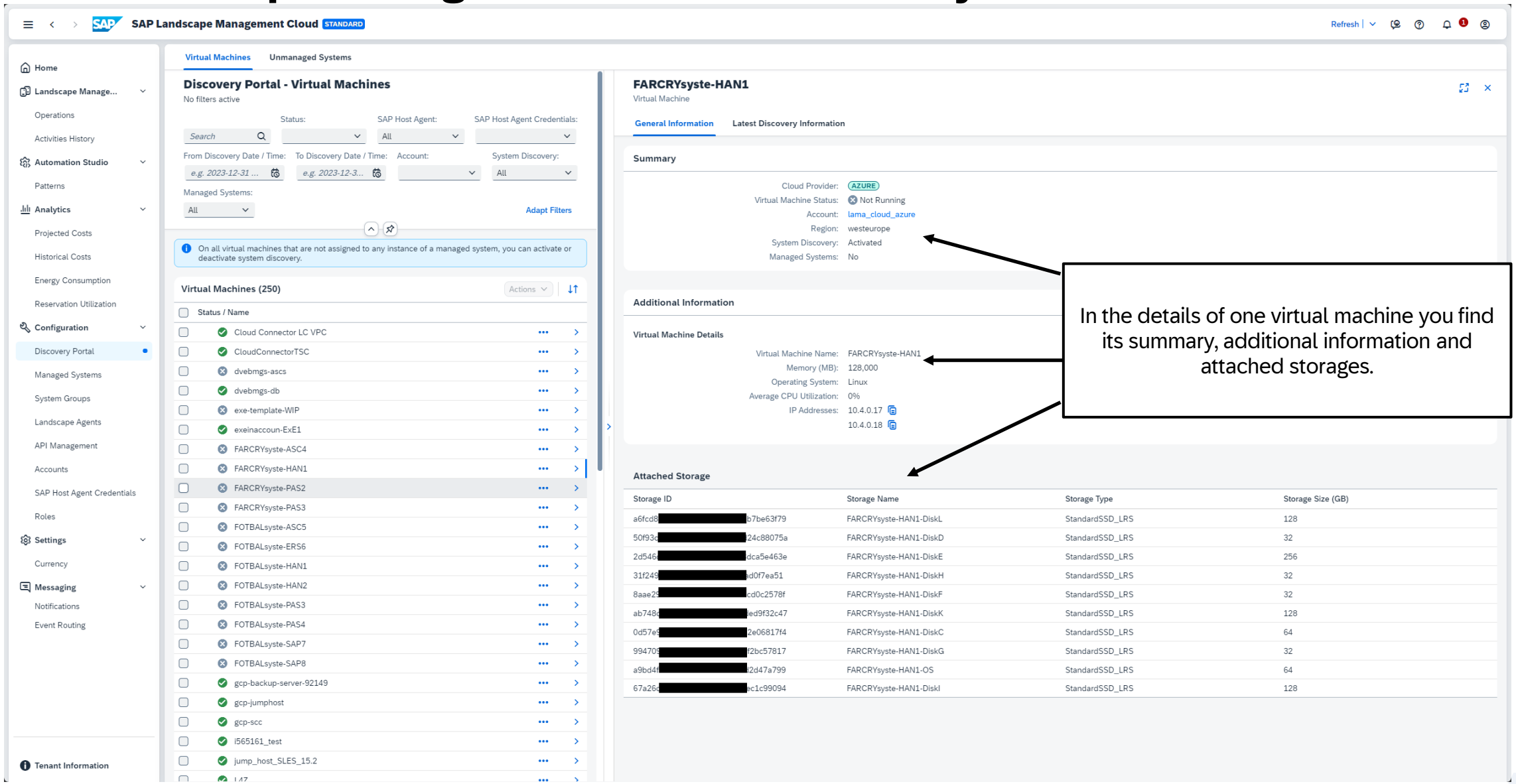


See all virtual machines of your hyperscaler accounts in one view.

(E.g.: You see all virtual machines of the GCP, AWS and Azure account without switching into the different hyperscaler views)

You can also exclude virtual machines from the system discovery of SAP Landscape Management Cloud.

SAP Landscape Management Cloud – Discovery Portal

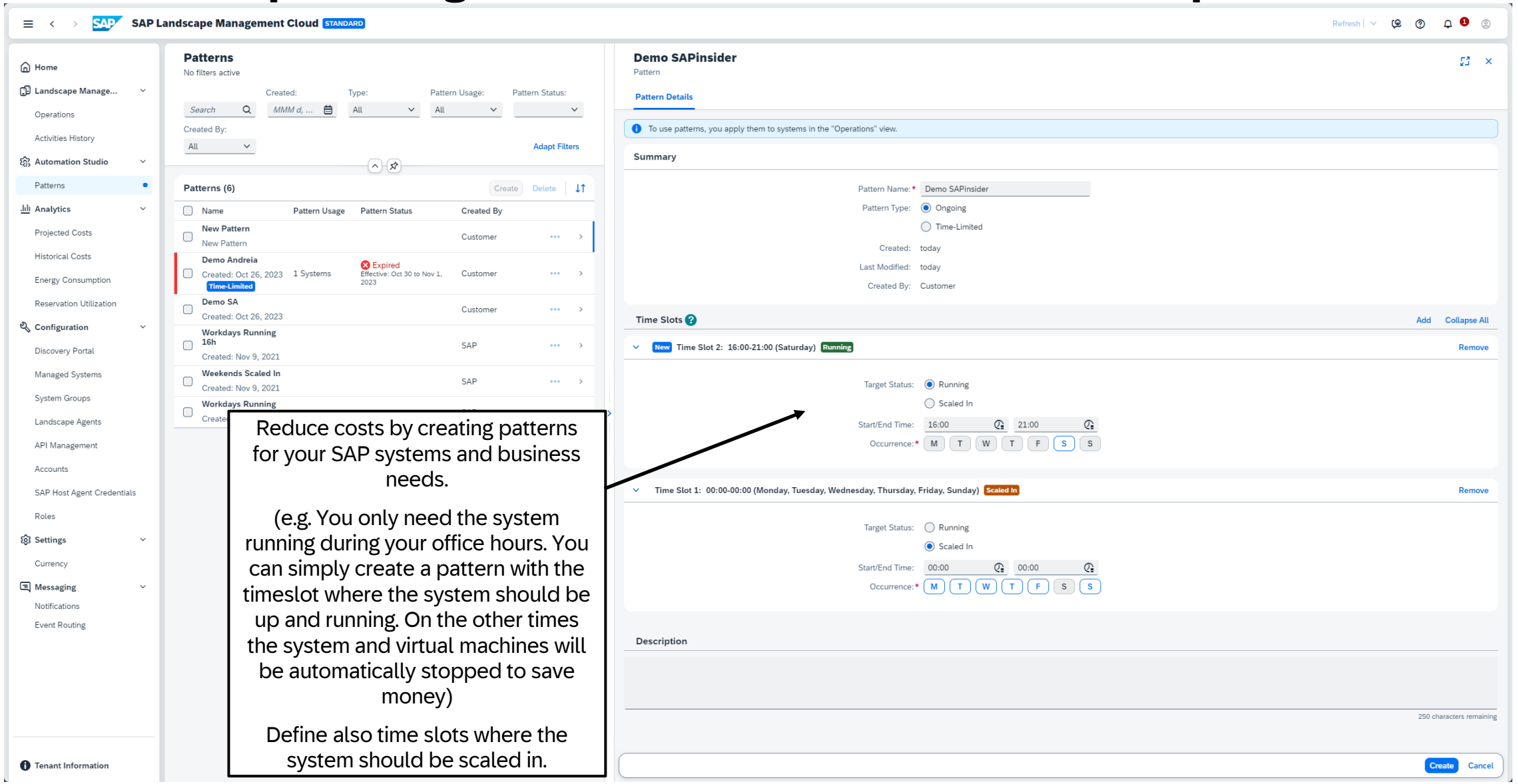


In the details of one virtual machine you find its summary, additional information and attached storages.

Public

SAPinsider

SAP Landscape Management Cloud – Create Pattern for Optimization

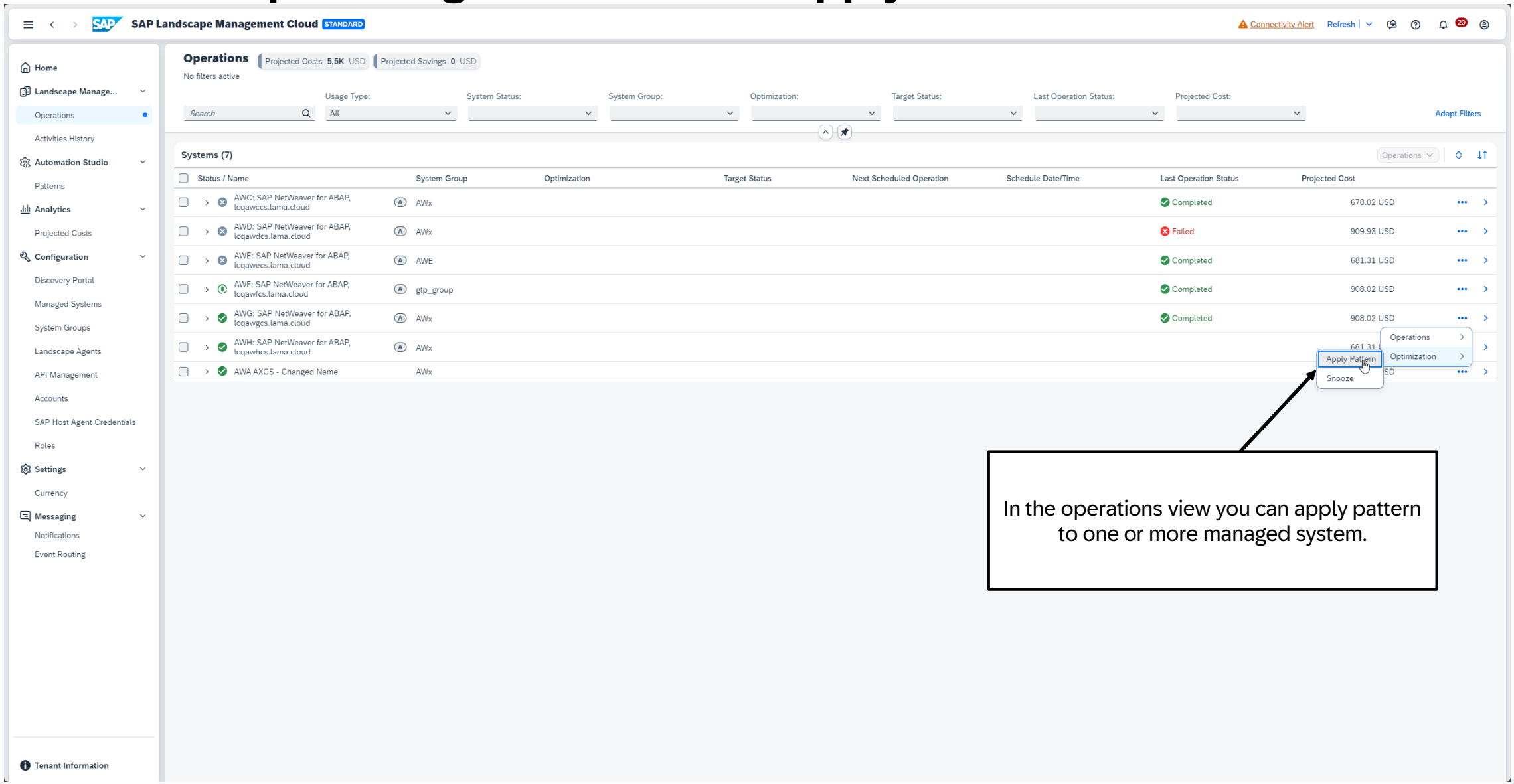


Reduce costs by creating patterns for your SAP systems and business needs.

(e.g. You only need the system running during your office hours. You can simply create a pattern with the timeslot where the system should be up and running. On the other times the system and virtual machines will be automatically stopped to save money)

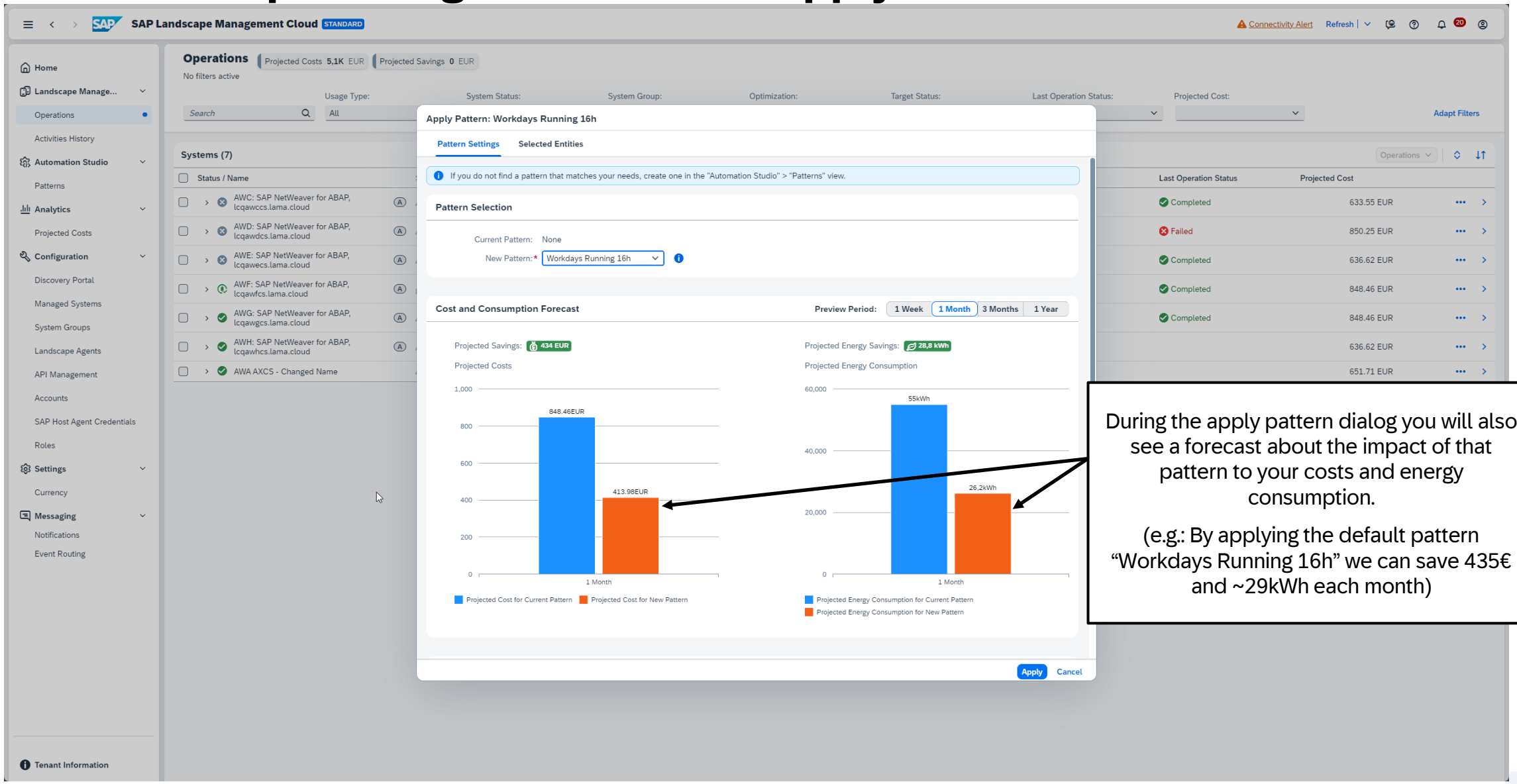
Define also time slots where the system should be scaled in.

SAP Landscape Management Cloud – Apply Pattern



In the operations view you can apply pattern to one or more managed system.

SAP Landscape Management Cloud – Apply Pattern



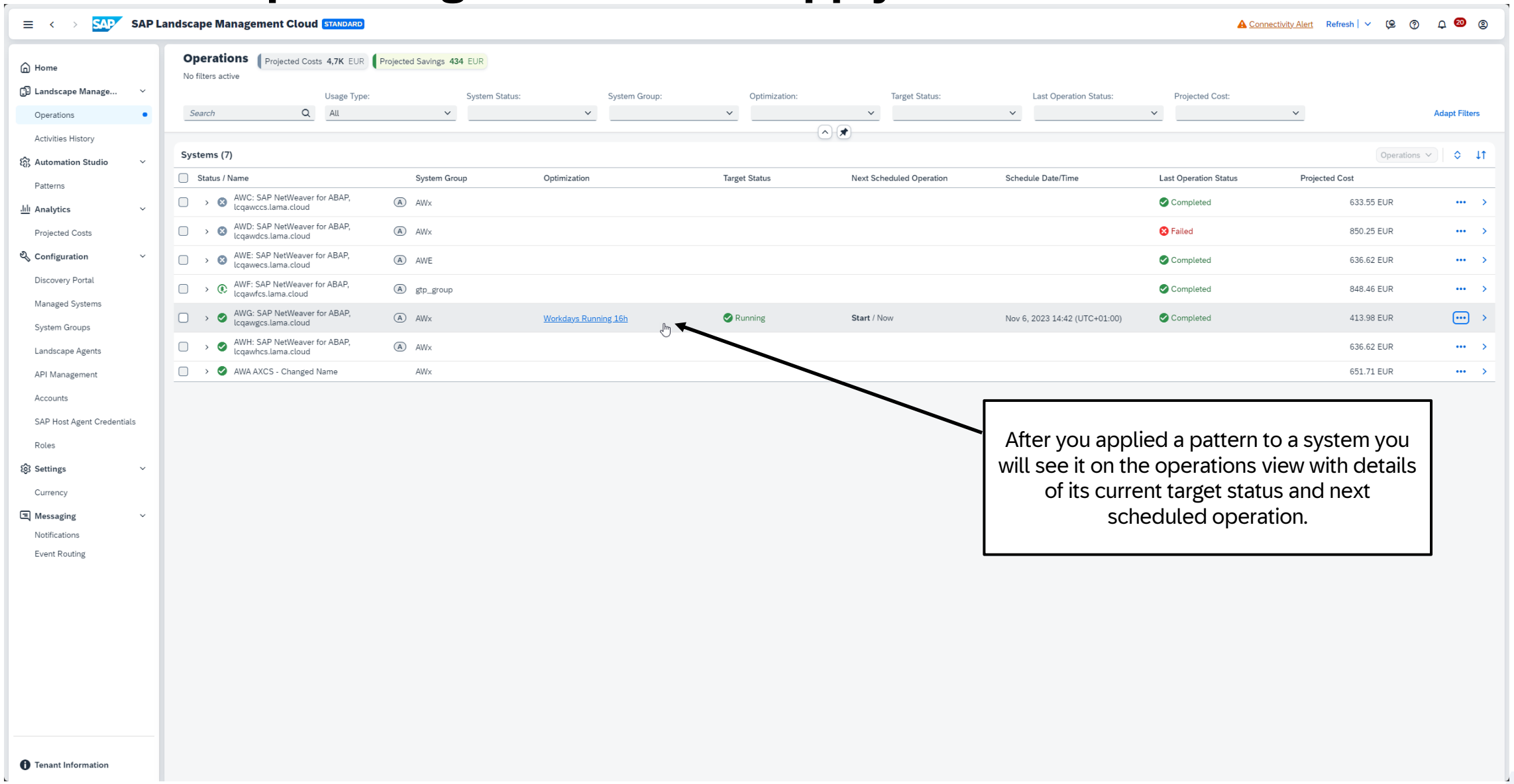
During the apply pattern dialog you will also see a forecast about the impact of that pattern to your costs and energy consumption.

(e.g.: By applying the default pattern "Workdays Running 16h" we can save 435€ and ~29kWh each month)

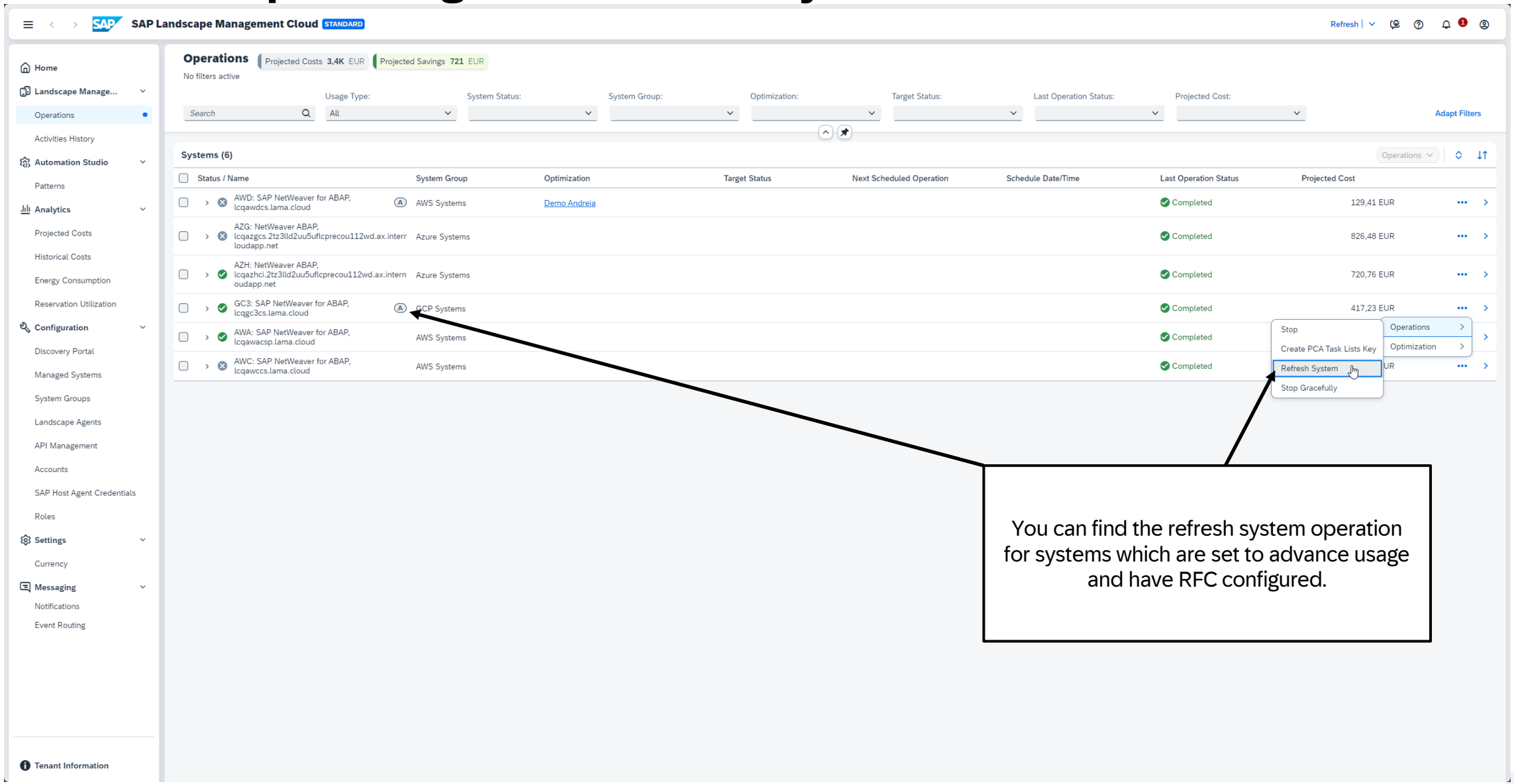
Public

SAPinsider

SAP Landscape Management Cloud – Apply Pattern



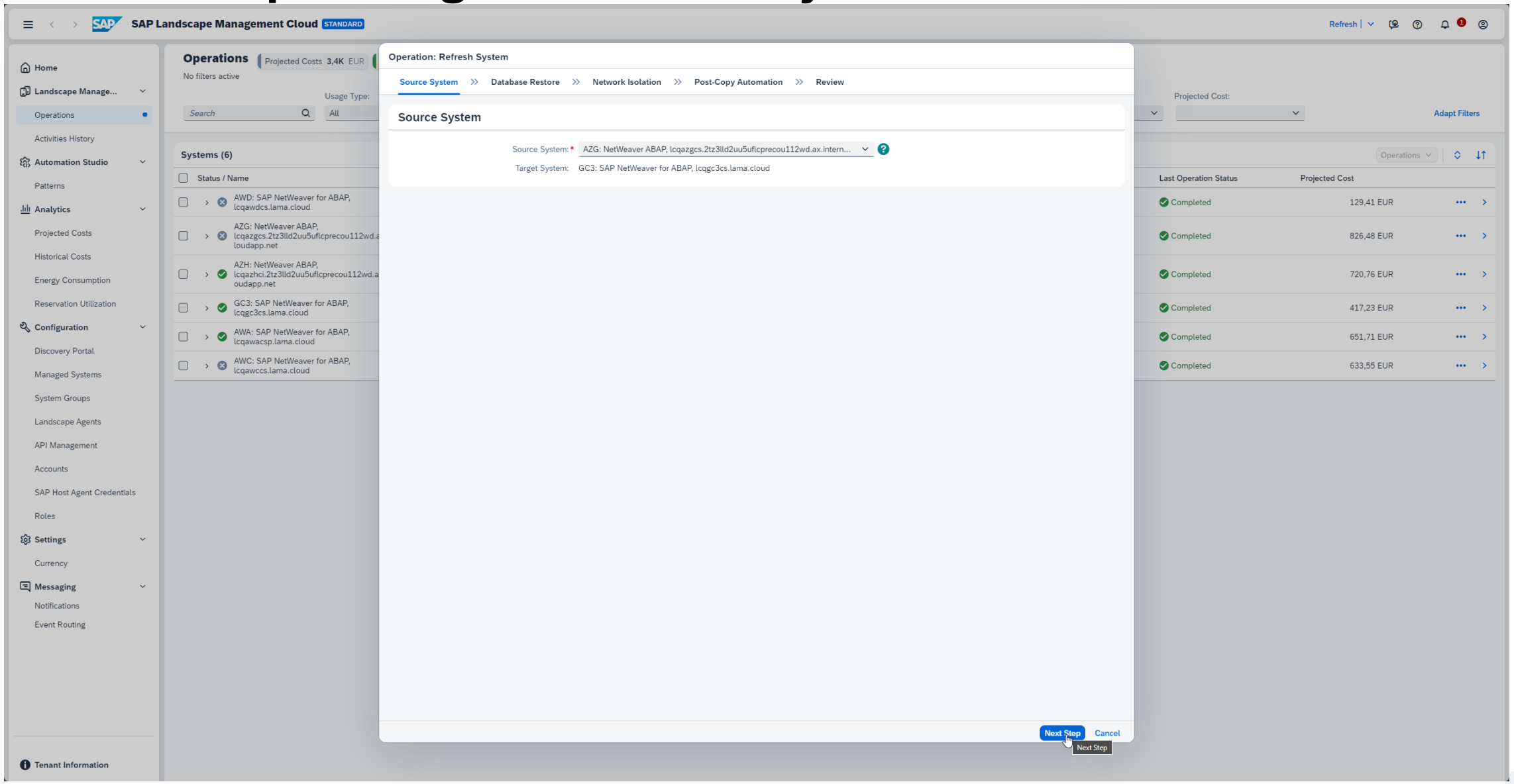
SAP Landscape Management Cloud – System Refresh



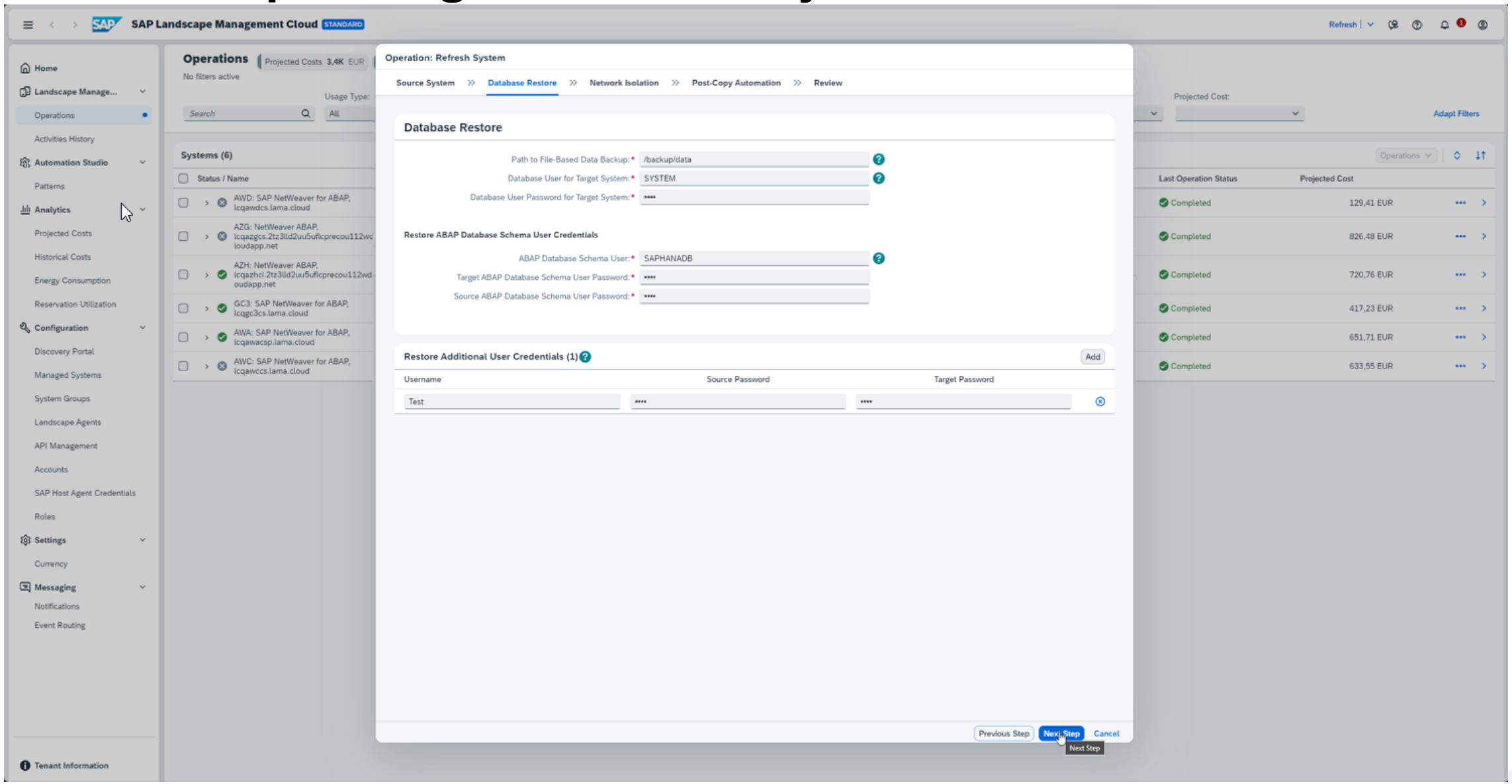
Public

SAPinsider

SAP Landscape Management Cloud – System Refresh



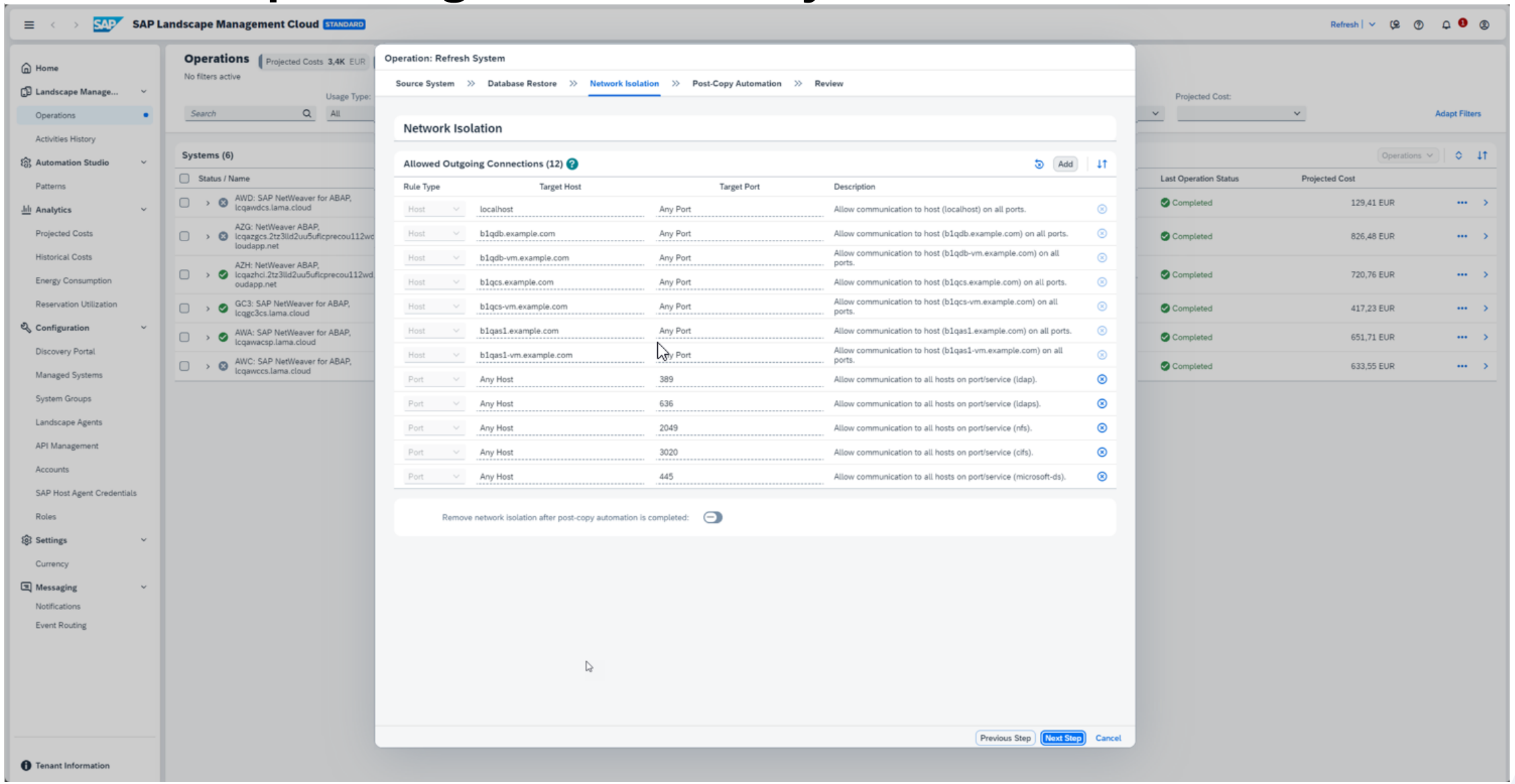
SAP Landscape Management Cloud – System Refresh



Public

SAPinsider

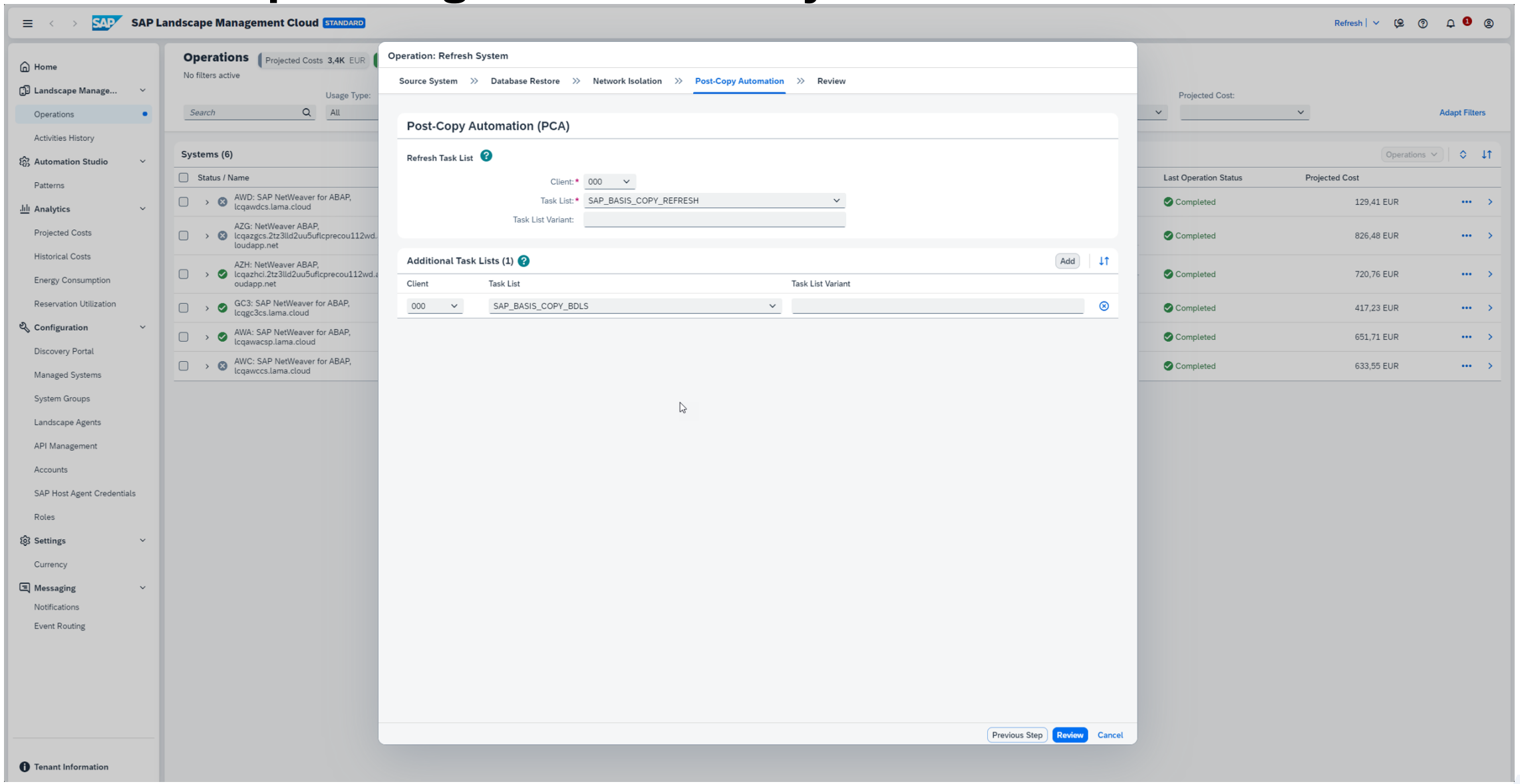
SAP Landscape Management Cloud – System Refresh



Public

SAPinsider

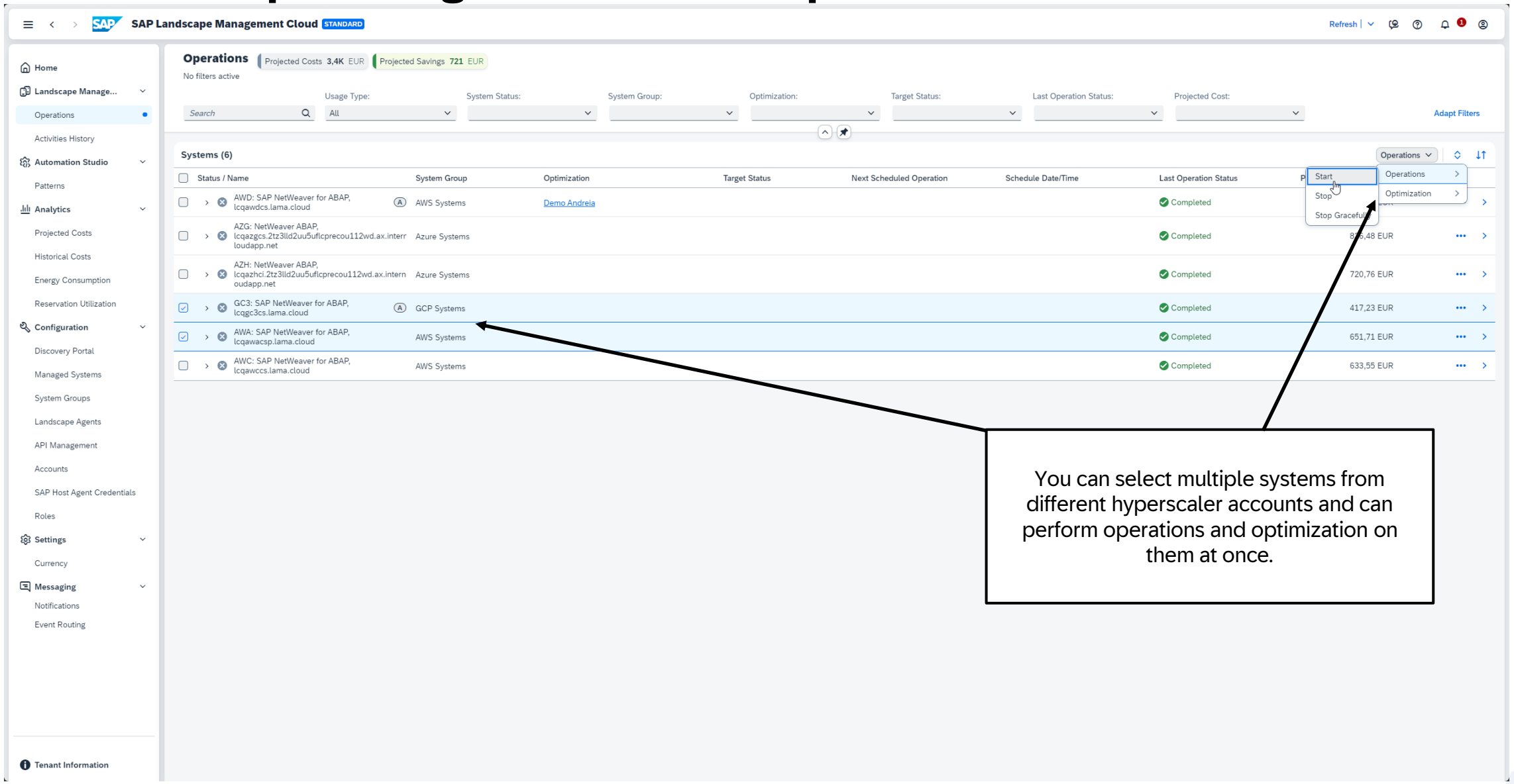
SAP Landscape Management Cloud – System Refresh



Public

SAPinsider

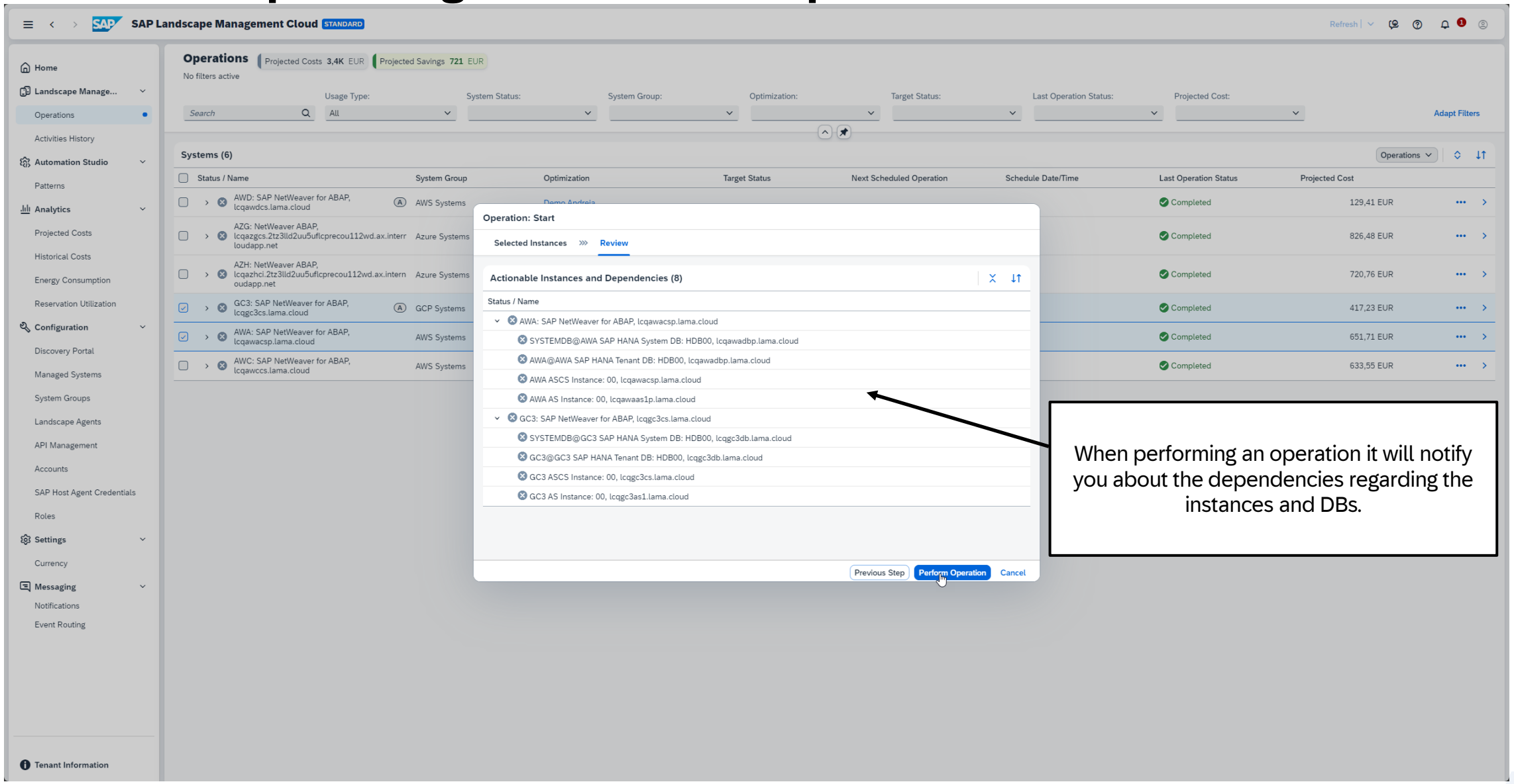
SAP Landscape Management Cloud – Operations



Public

SAPinsider

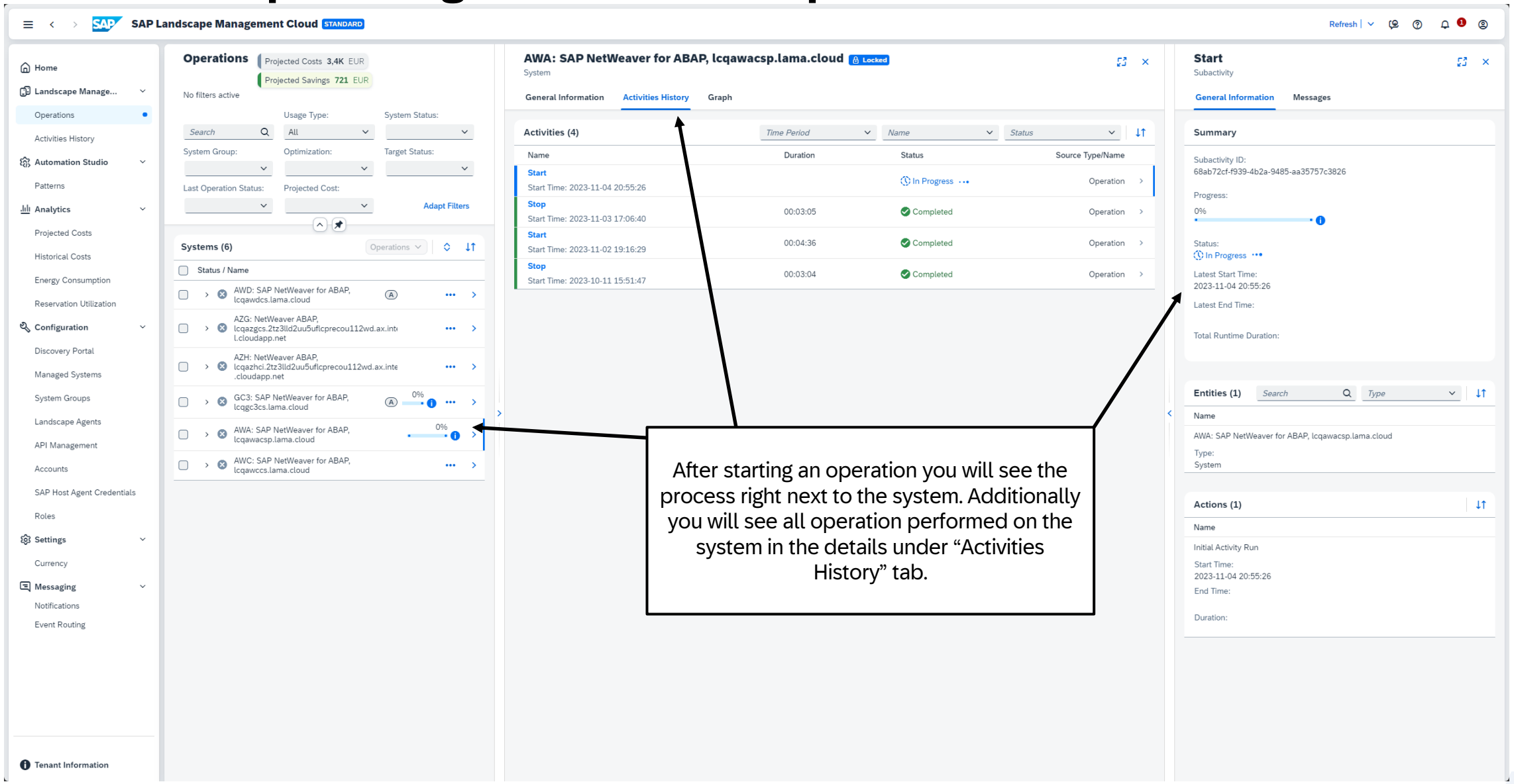
SAP Landscape Management Cloud – Operations



Public

SAPinsider

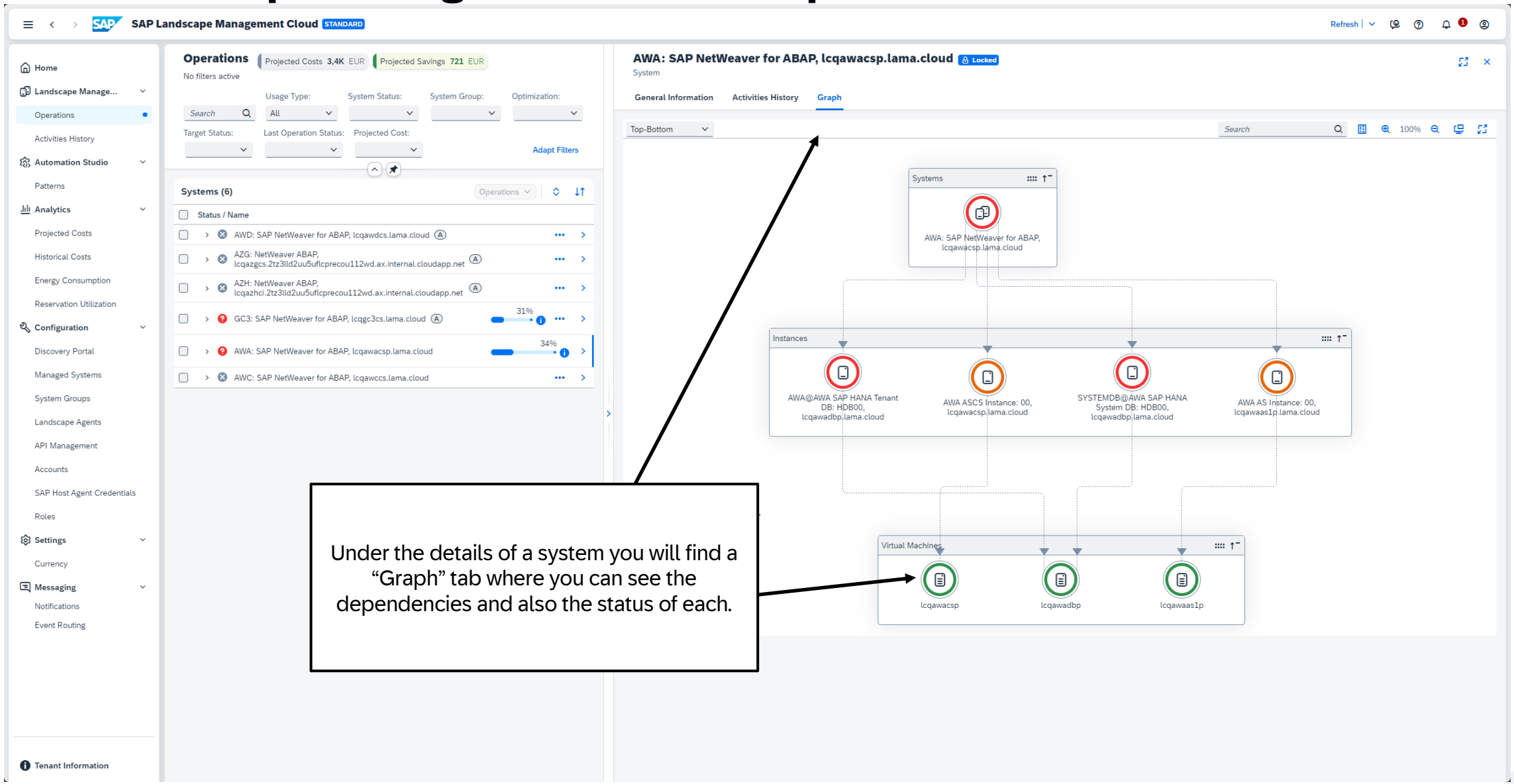
SAP Landscape Management Cloud – Operations



Public

SAPinsider

SAP Landscape Management Cloud – Operations

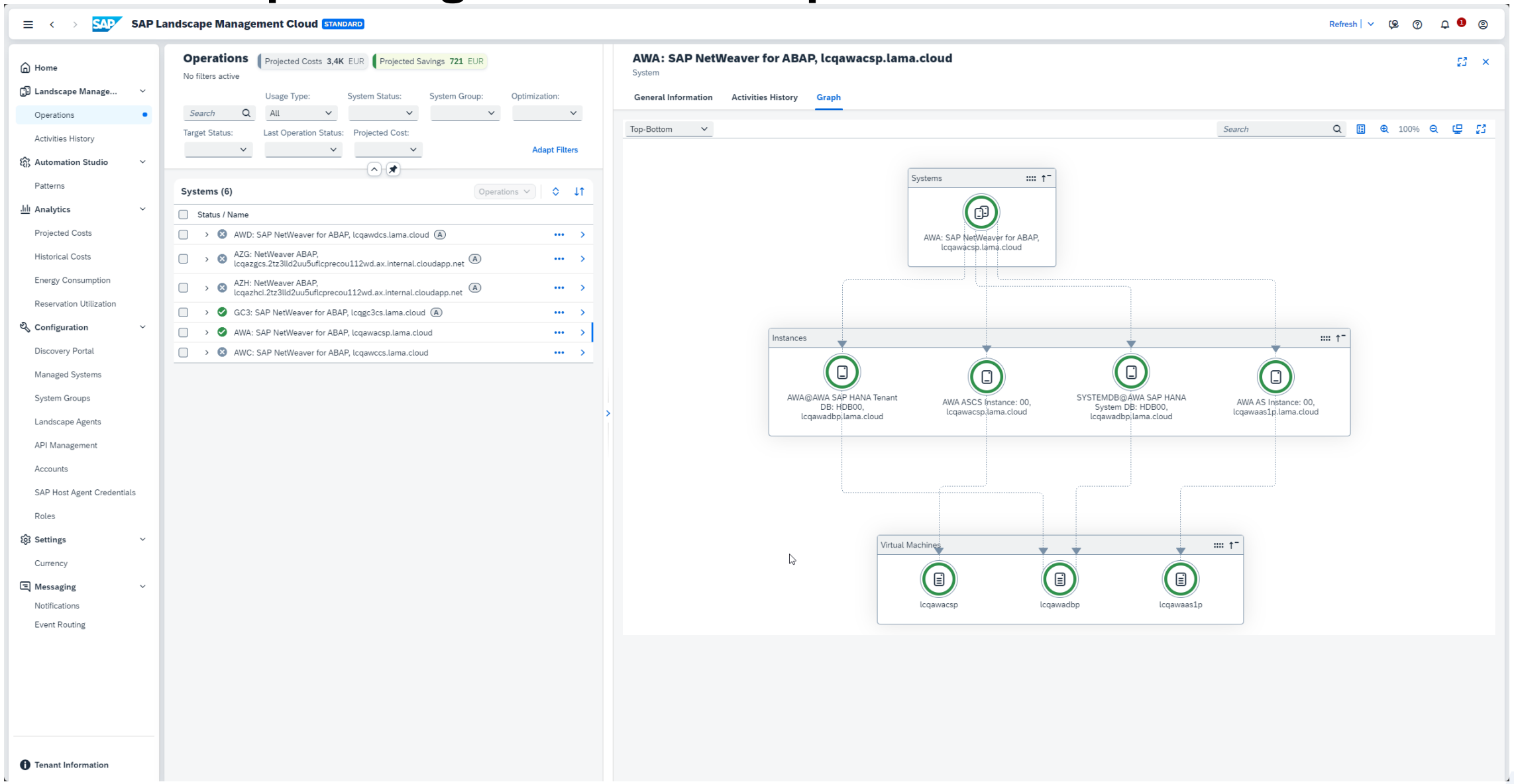


Under the details of a system you will find a "Graph" tab where you can see the dependencies and also the status of each.

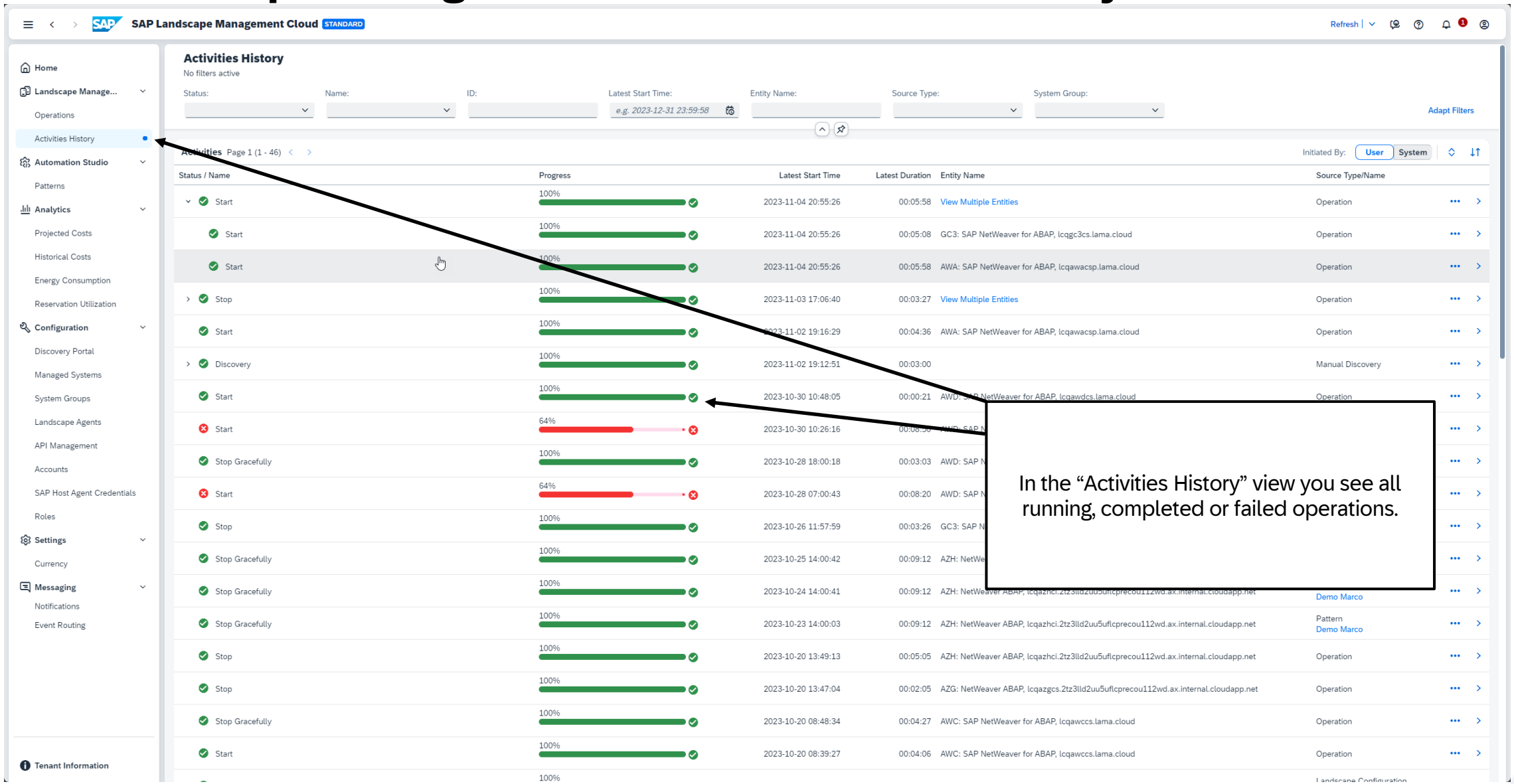
Public

SAPinsider

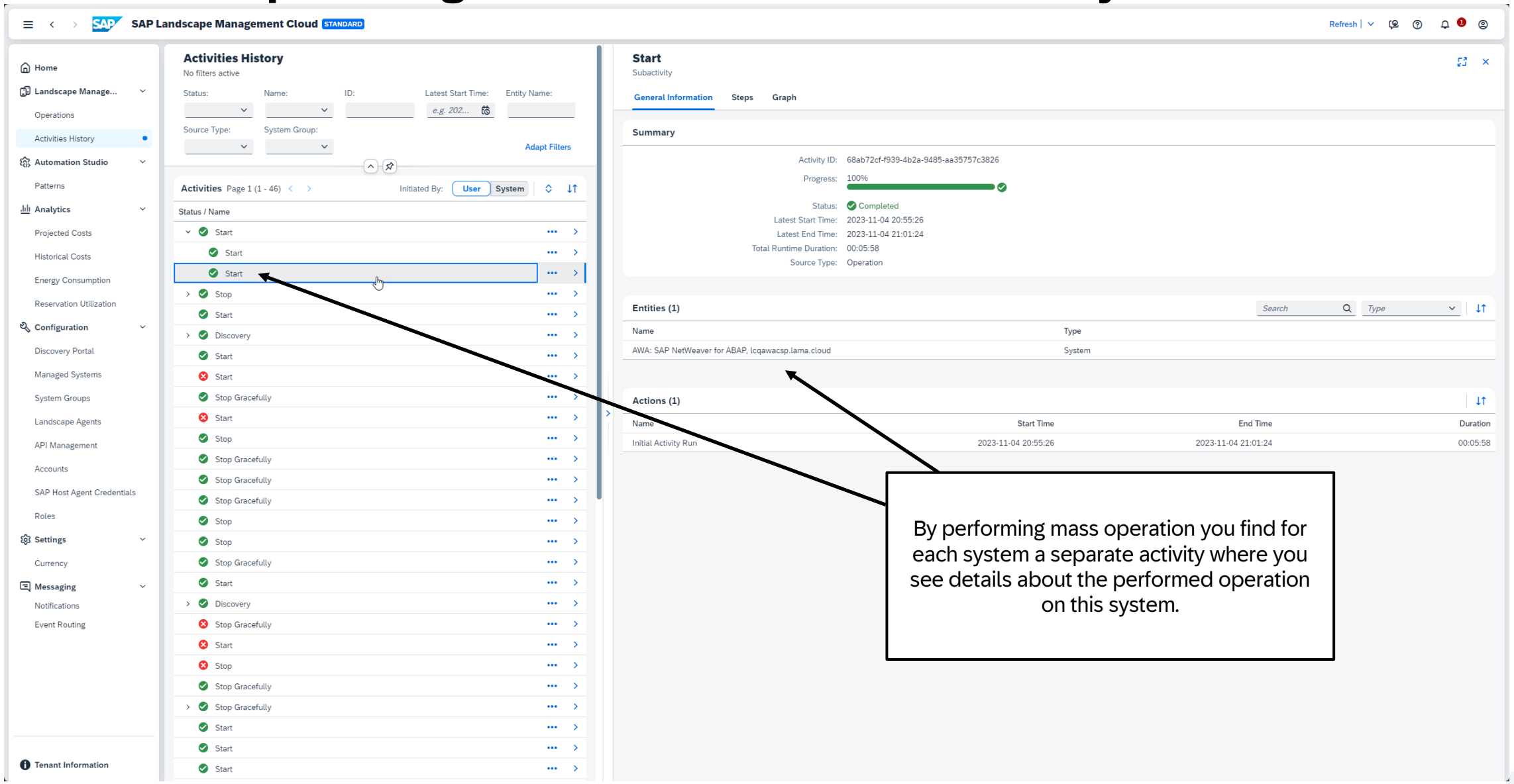
SAP Landscape Management Cloud – Operations



SAP Landscape Management Cloud – Activities History



SAP Landscape Management Cloud – Activities History

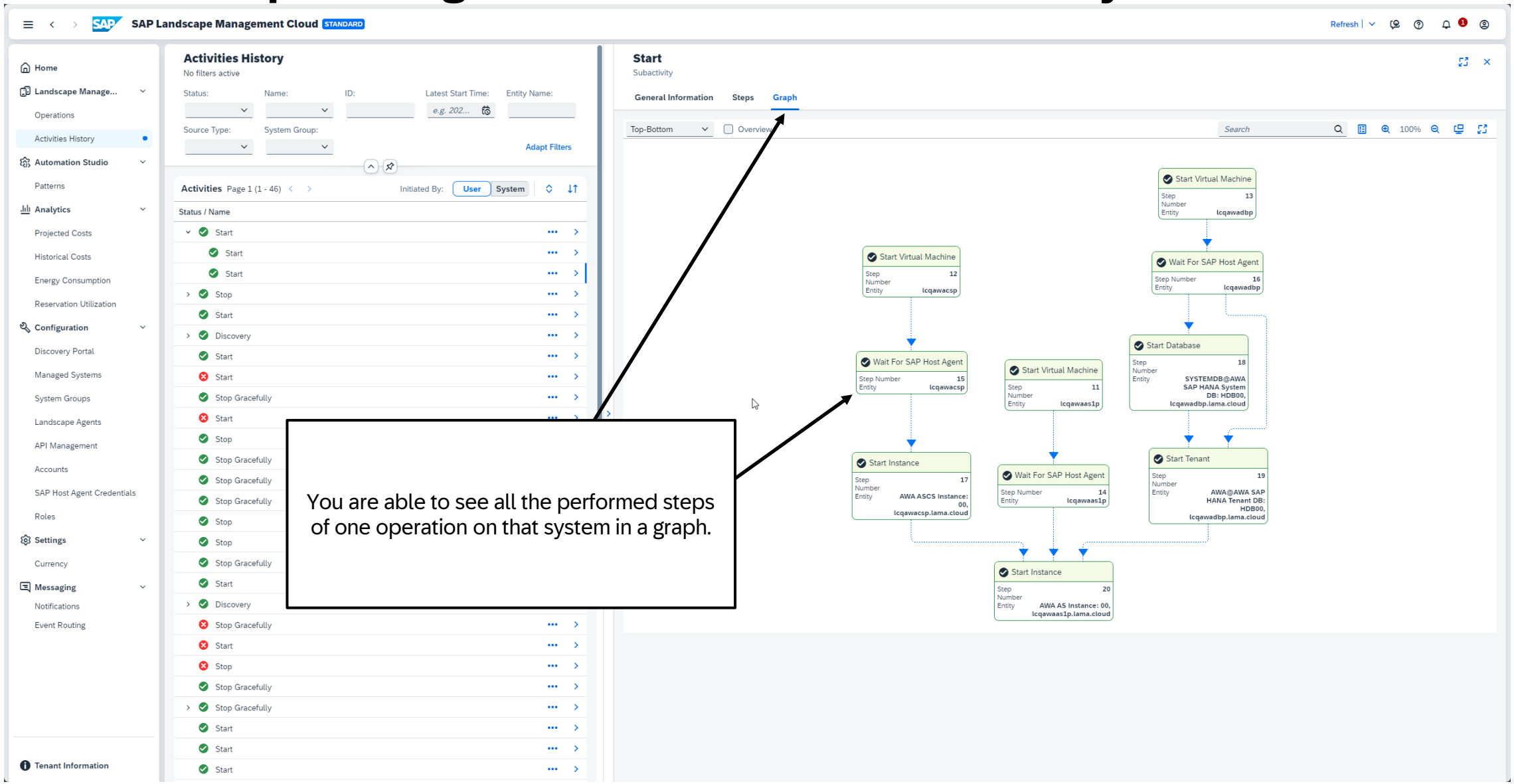


By performing mass operation you find for each system a separate activity where you see details about the performed operation on this system.

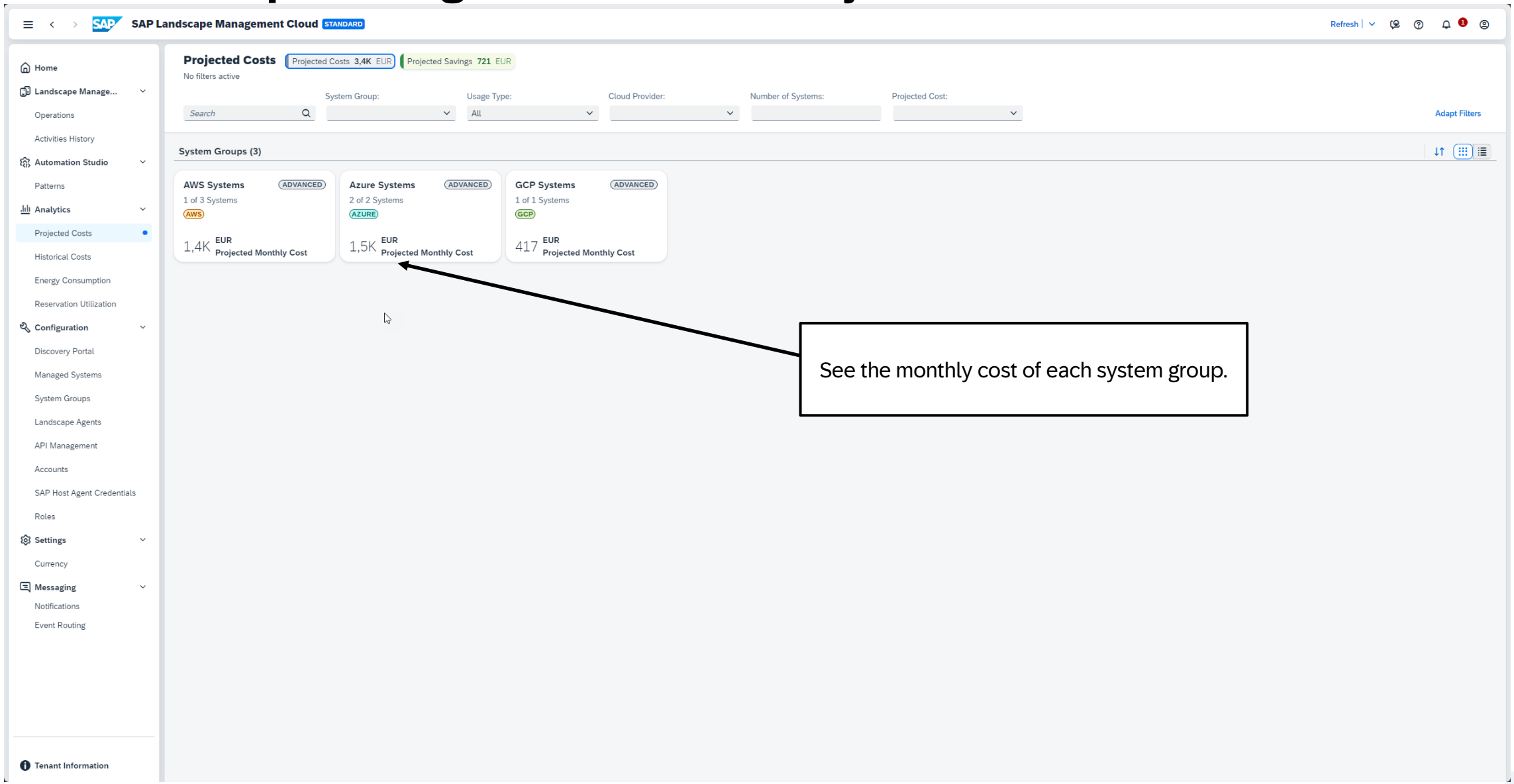
Public

SAPinsider

SAP Landscape Management Cloud – Activities History



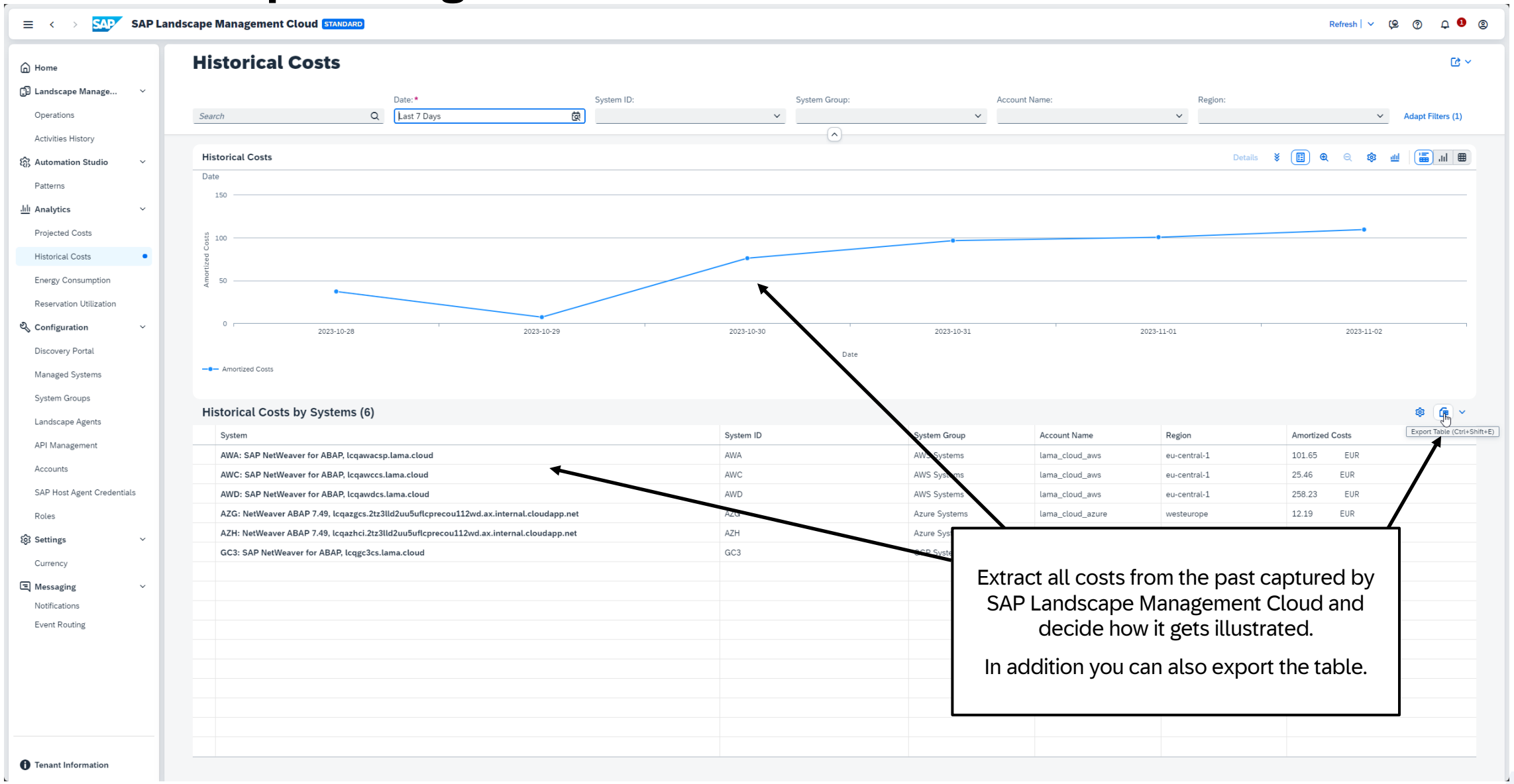
SAP Landscape Management Cloud – Projected Costs



Public

SAPinsider

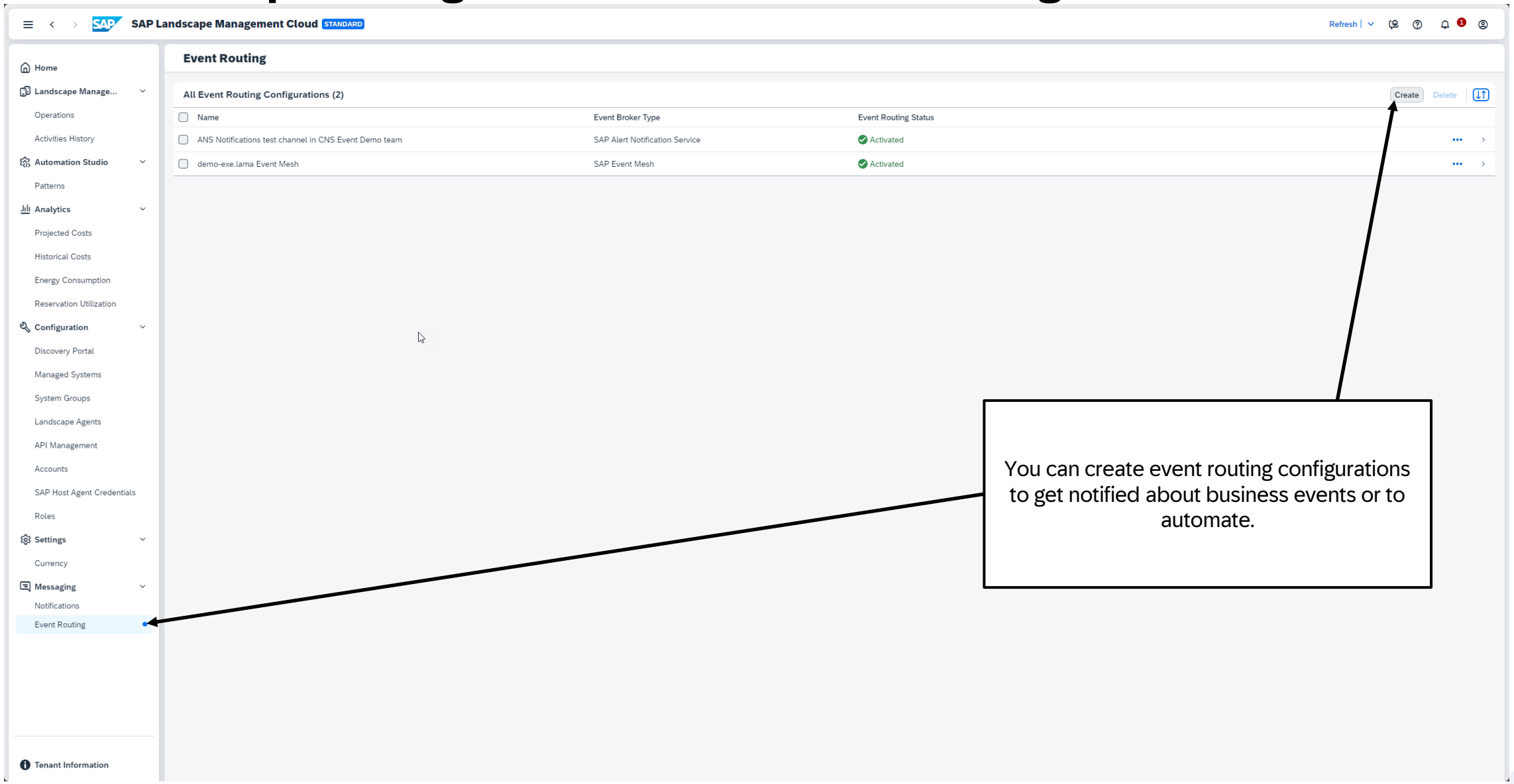
SAP Landscape Management Cloud – Historical Costs



Public

SAPinsider

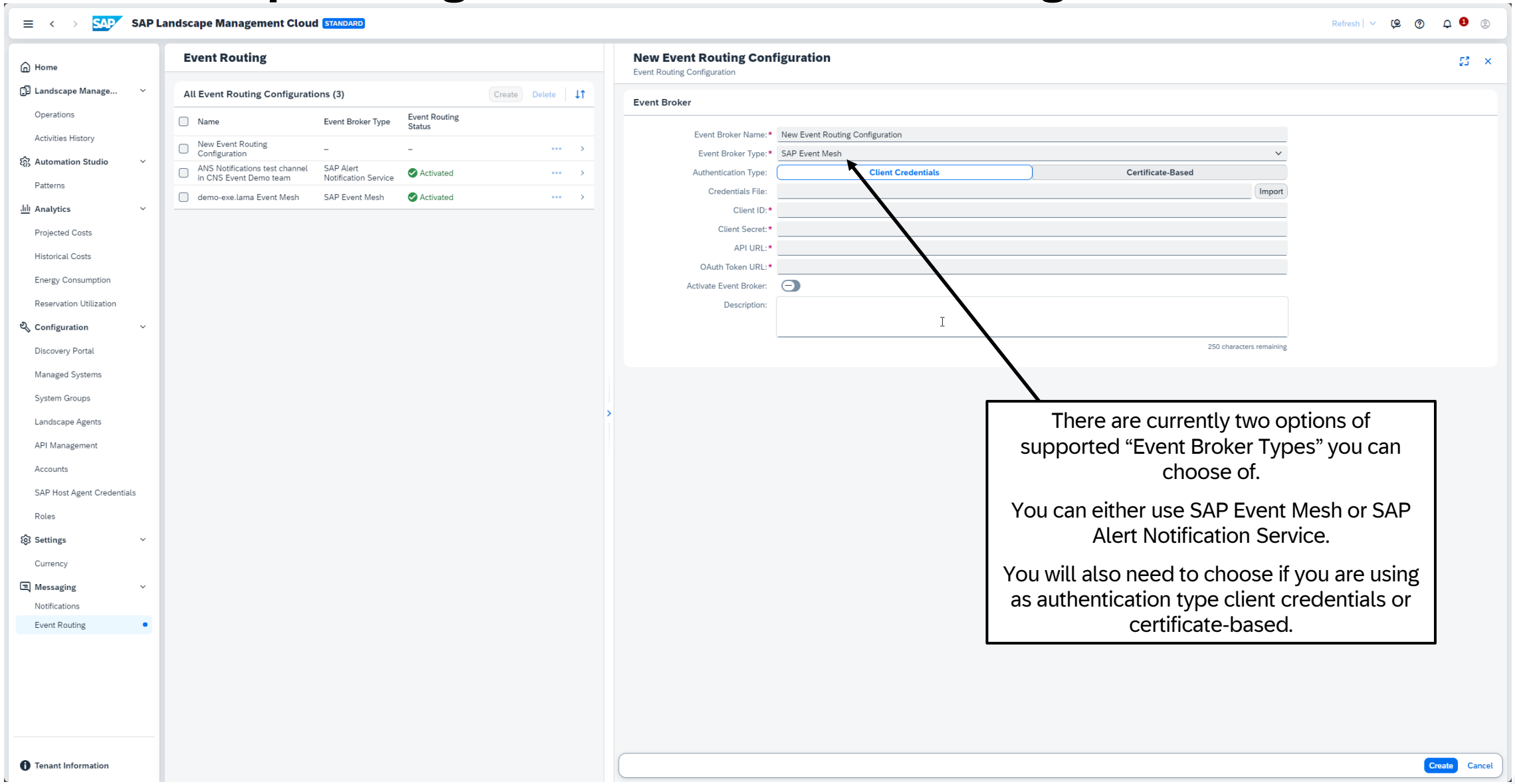
SAP Landscape Management Cloud – Event Routing



Public

SAPinsider

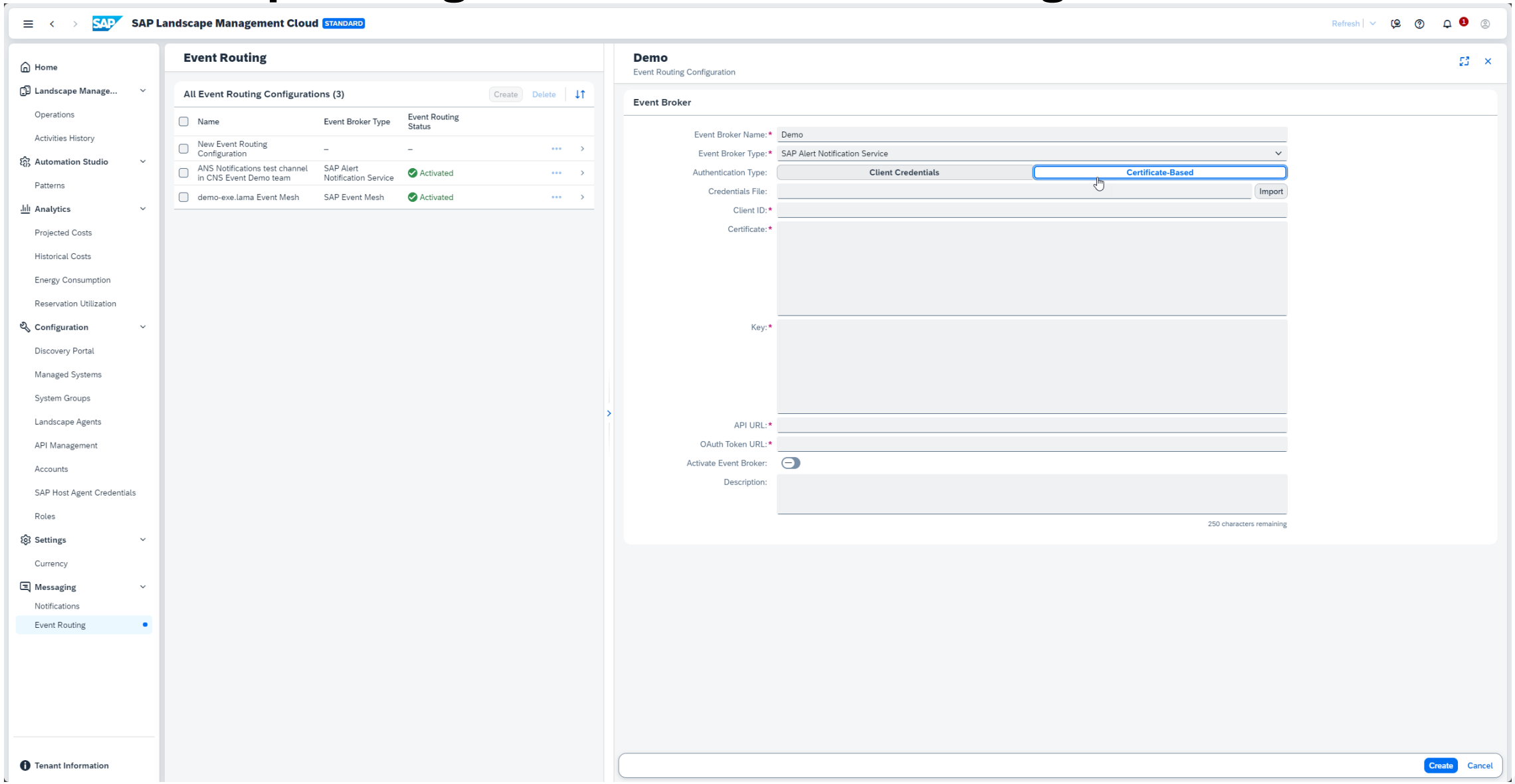
SAP Landscape Management Cloud – Event Routing



Public

SAPinsider

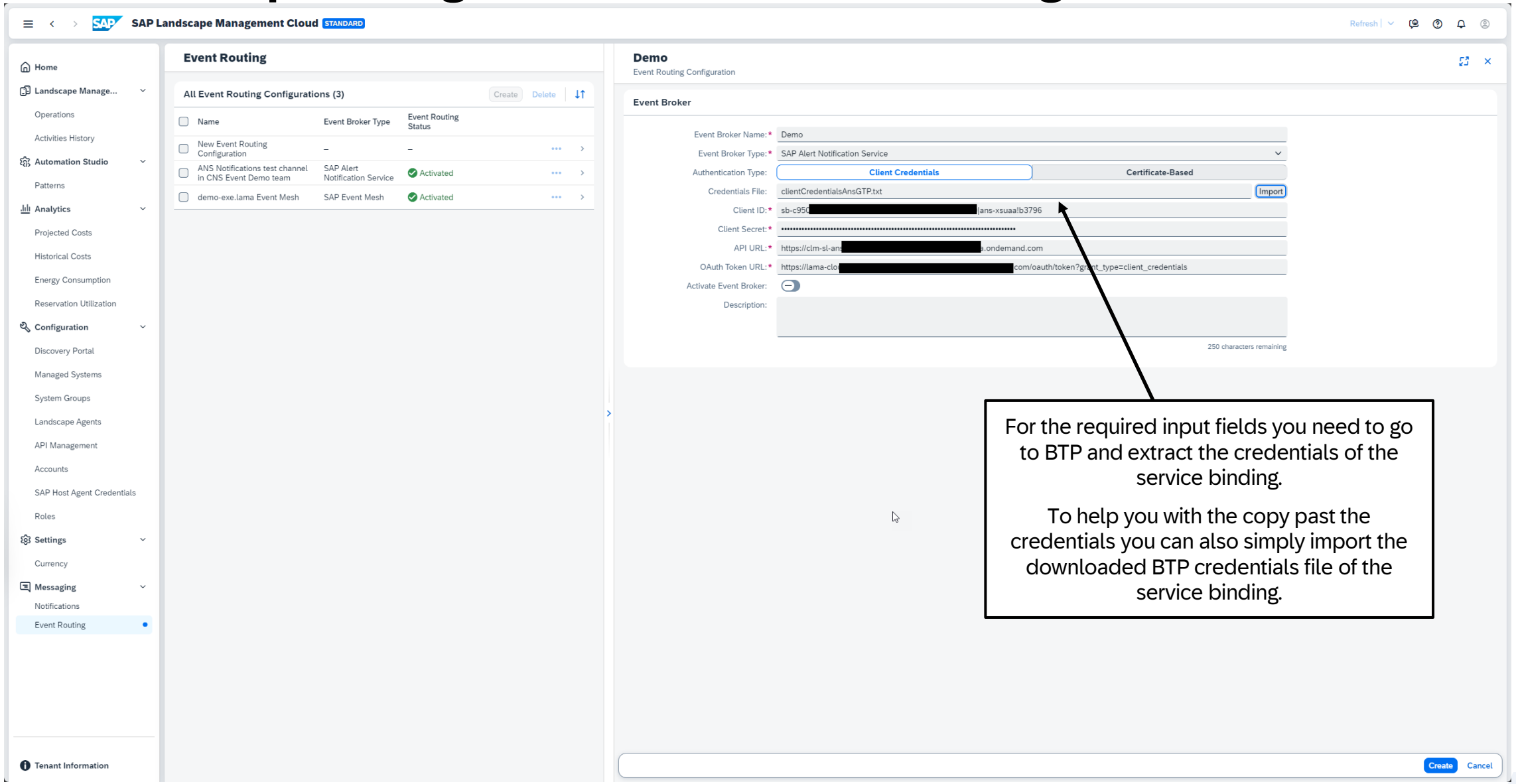
SAP Landscape Management Cloud – Event Routing



Public

SAPinsider

SAP Landscape Management Cloud – Event Routing



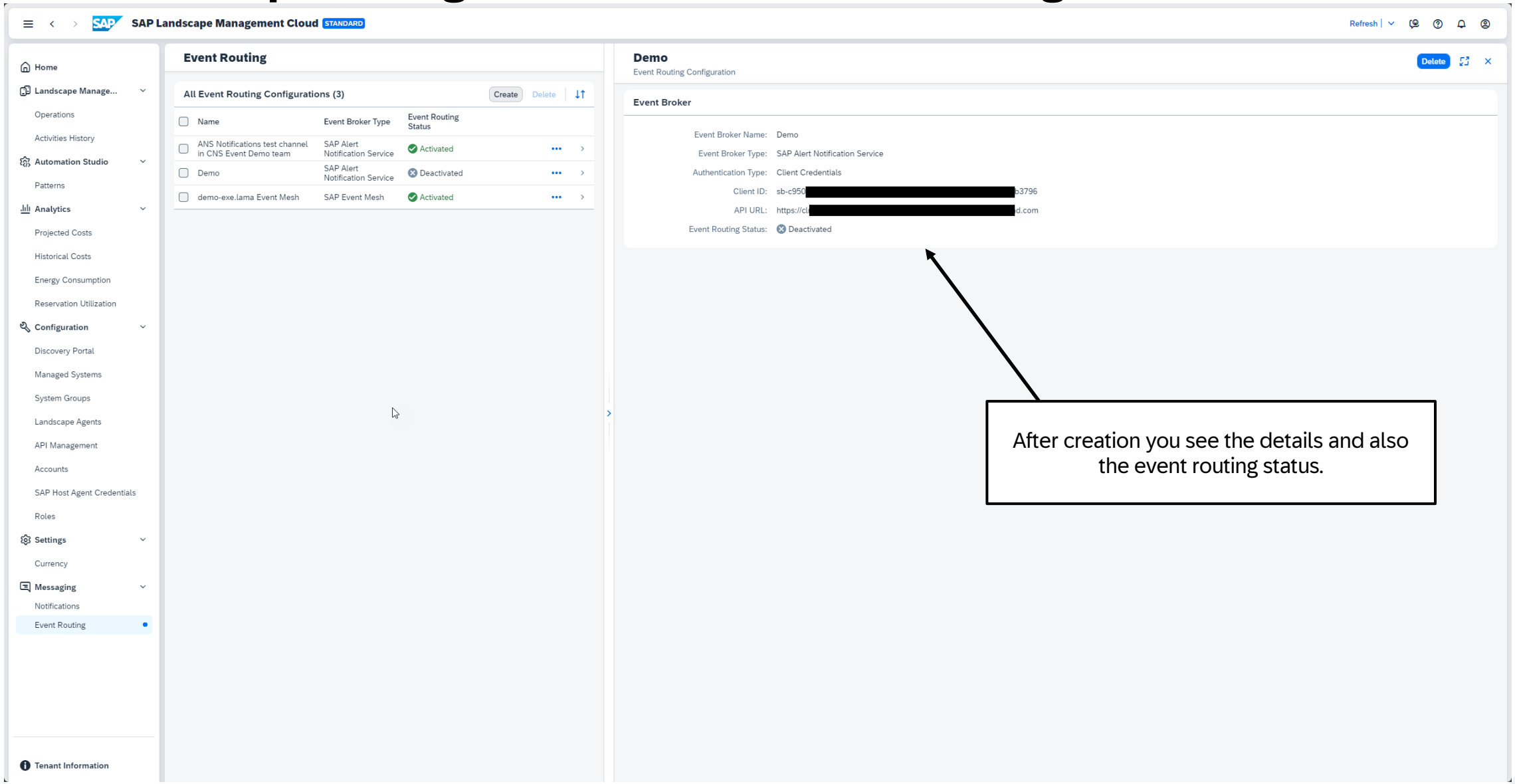
For the required input fields you need to go to BTP and extract the credentials of the service binding.

To help you with the copy past the credentials you can also simply import the downloaded BTP credentials file of the service binding.

Public

SAPinsider

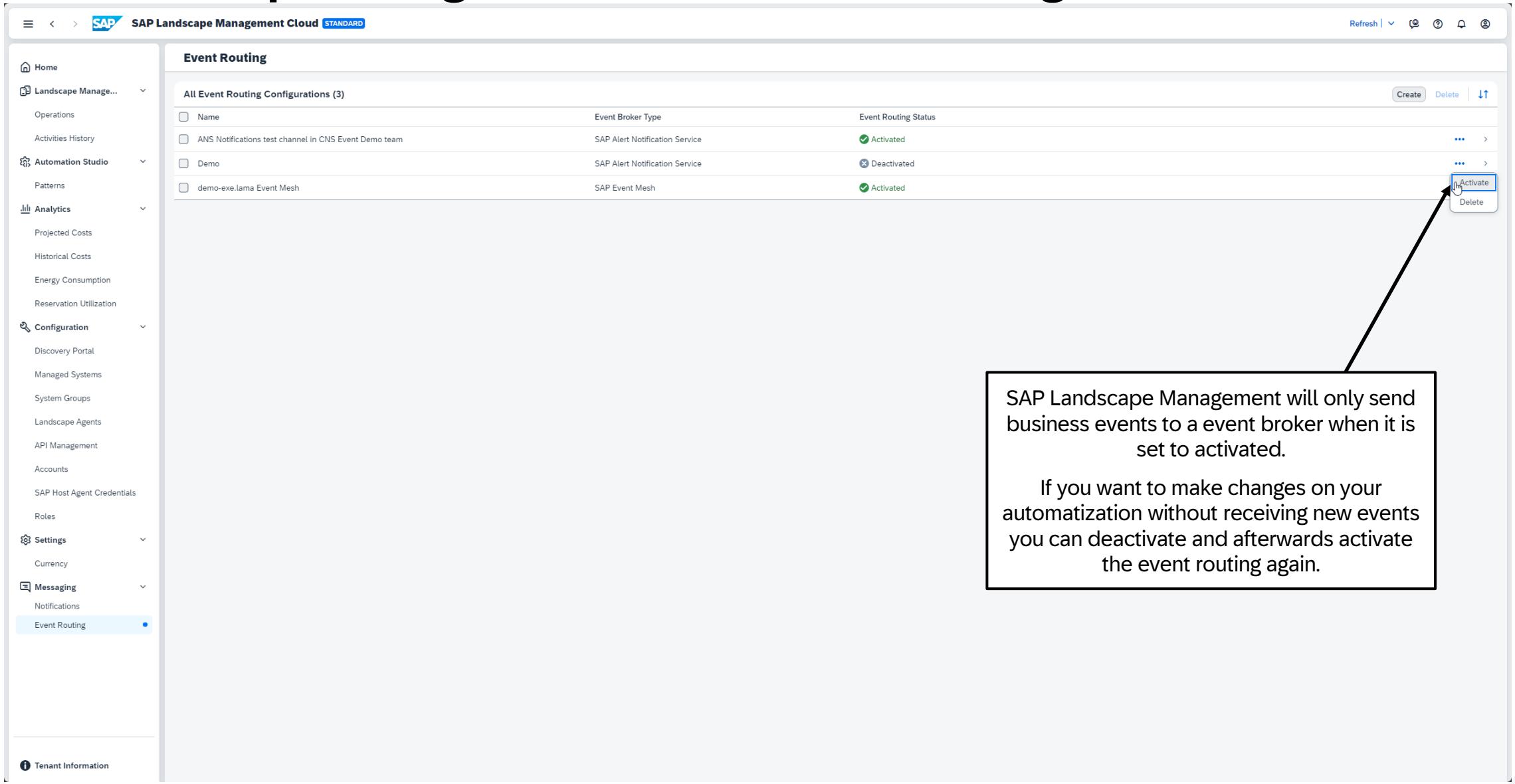
SAP Landscape Management Cloud – Event Routing



Public

SAPinsider

SAP Landscape Management Cloud – Event Routing



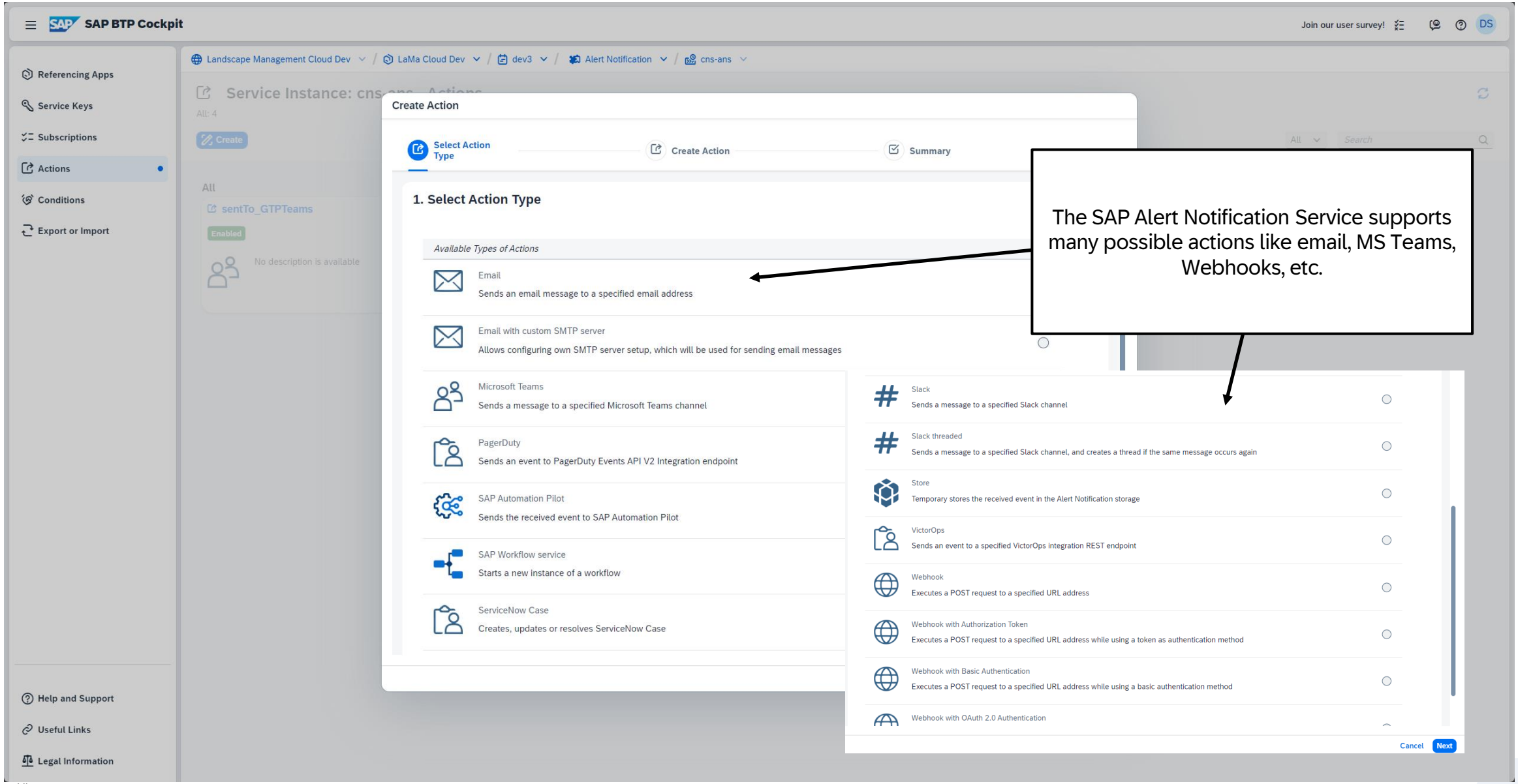
SAP Landscape Management will only send business events to a event broker when it is set to activated.

If you want to make changes on your automatization without receiving new events you can deactivate and afterwards activate the event routing again.

Public

SAPinsider

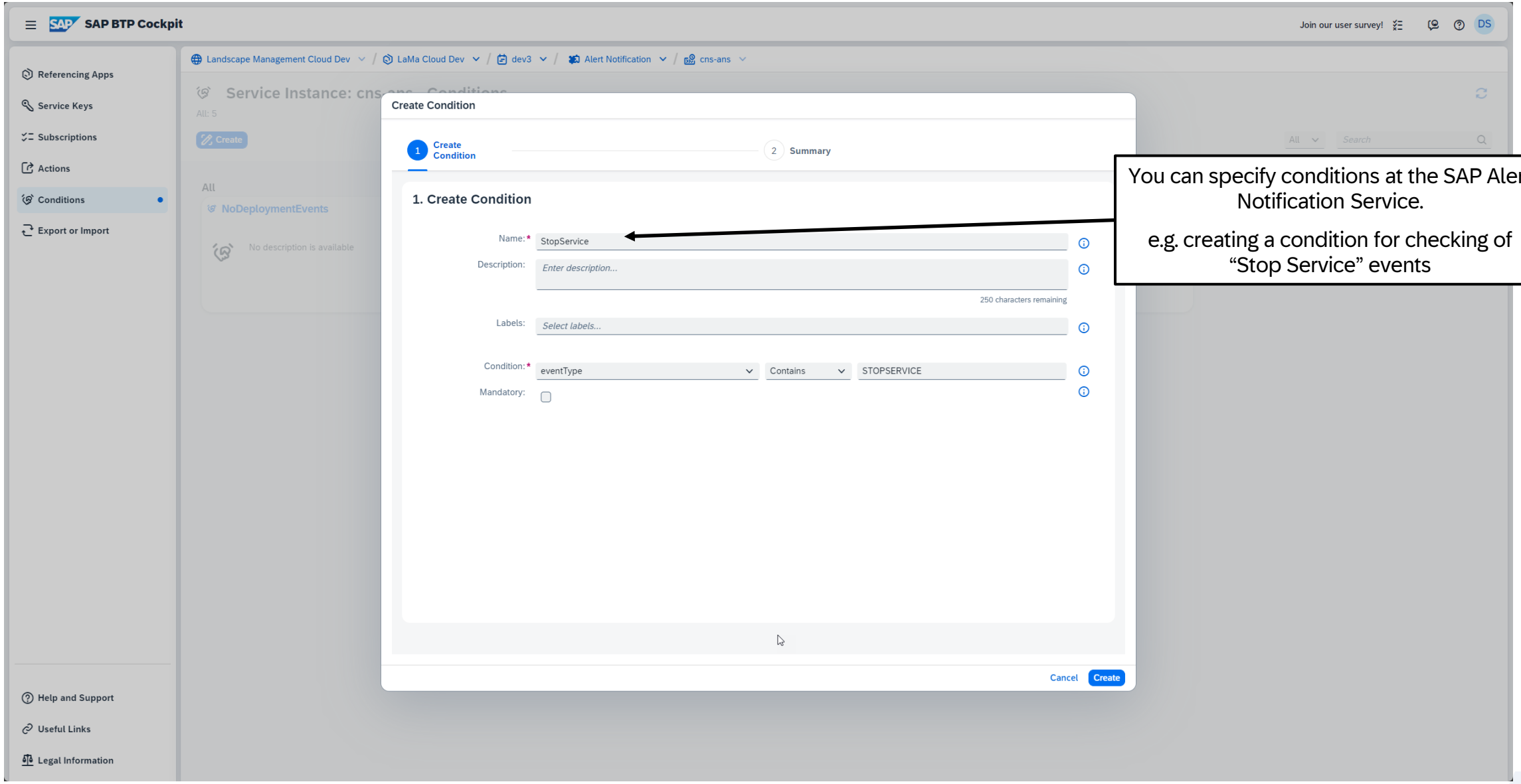
SAP Alert Notification Service – Possible Actions



Public

SAPinsider

SAP Alert Notification Service – Create Condition



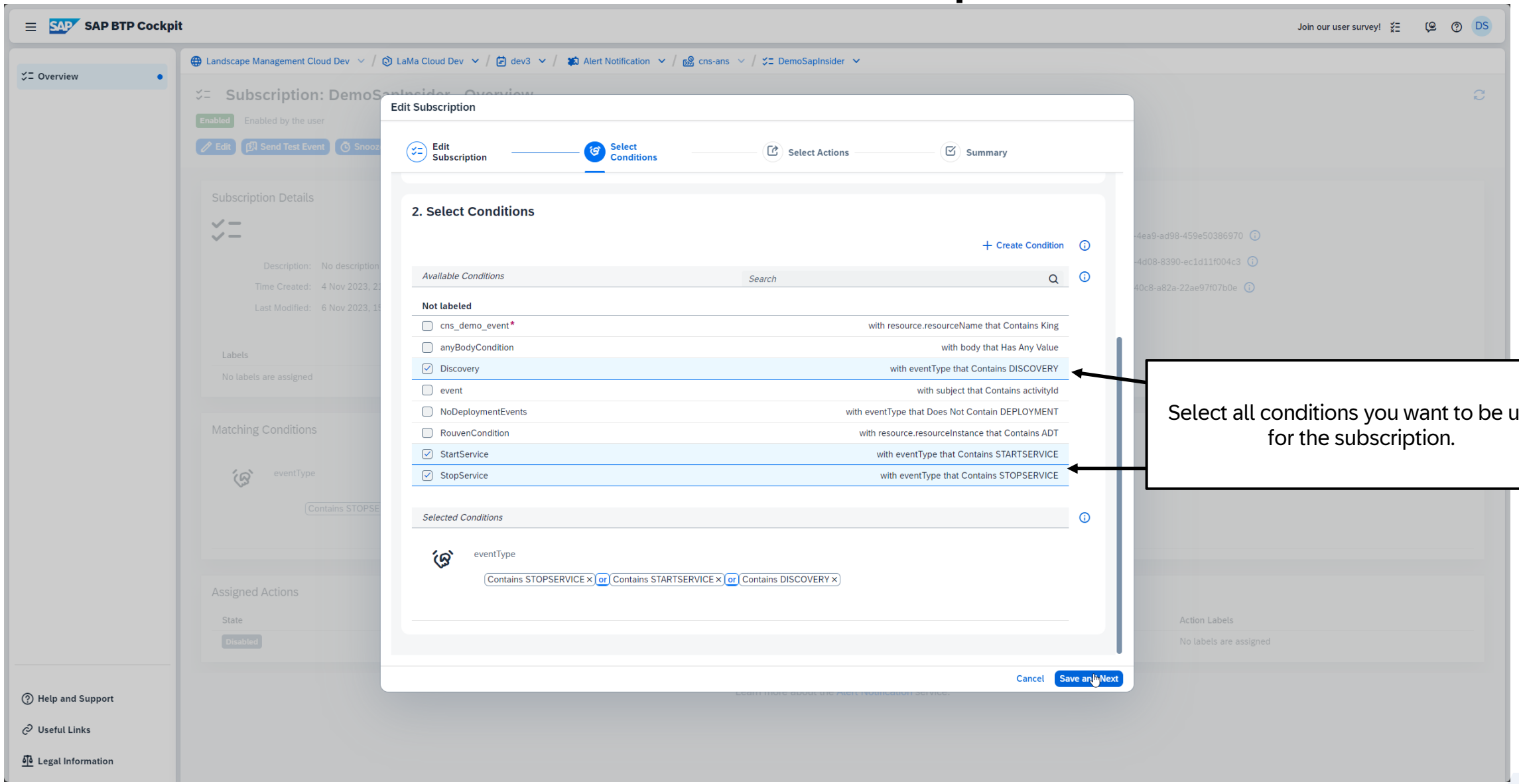
You can specify conditions at the SAP Alert Notification Service.

e.g. creating a condition for checking of "Stop Service" events

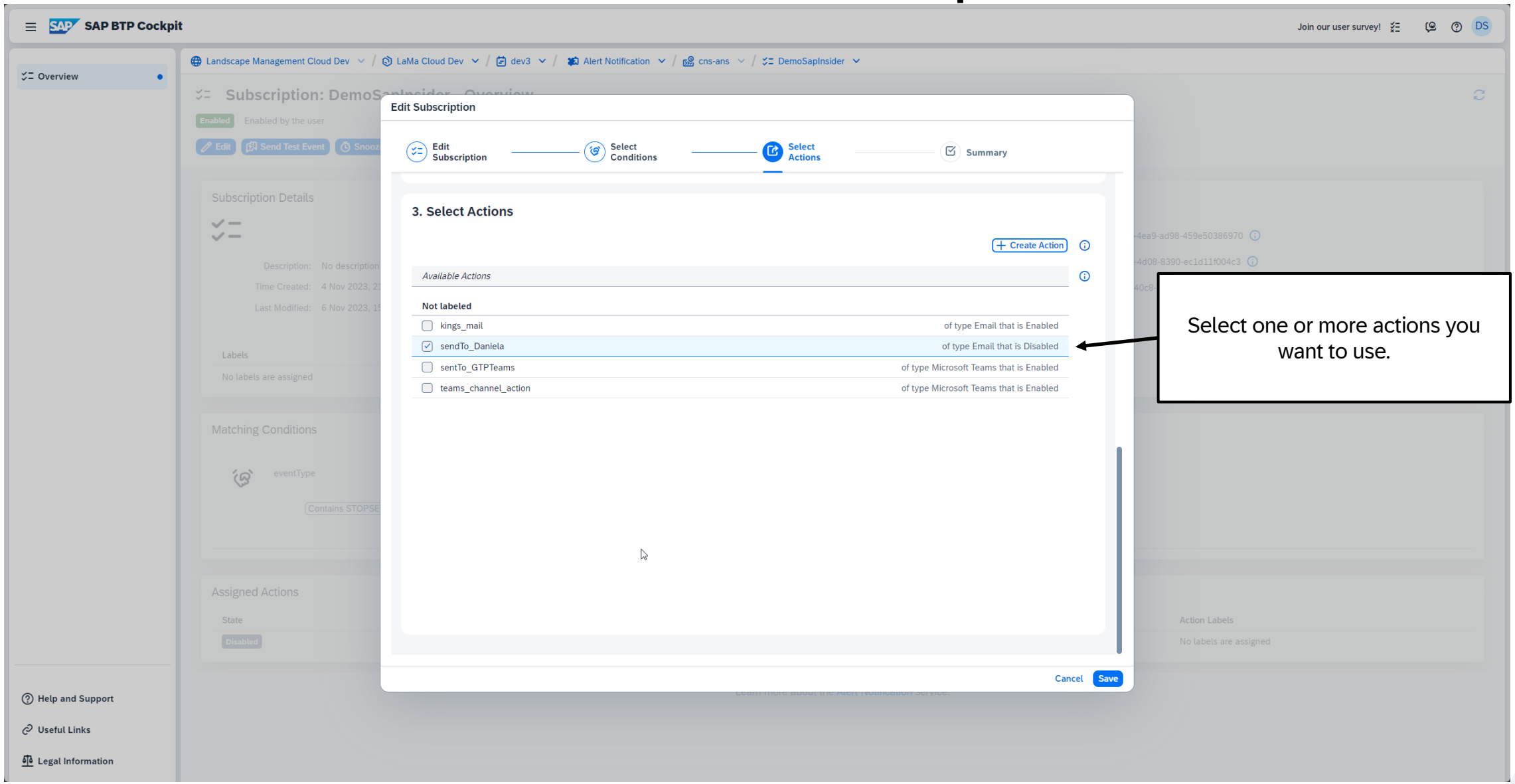
Public

SAPinsider

SAP Alert Notification Service – Create Subscription



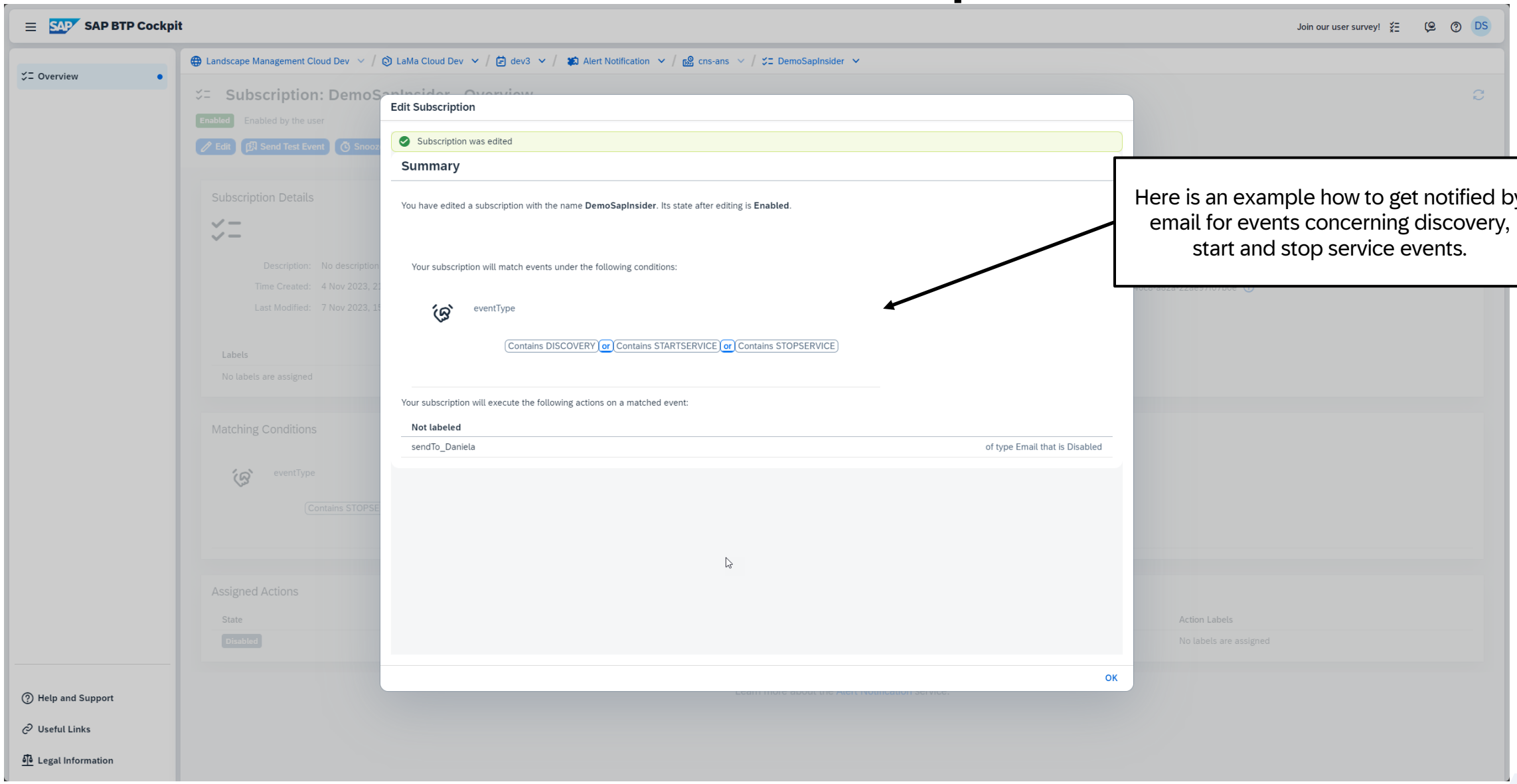
SAP Alert Notification Service – Create Subscription



Public

SAPinsider

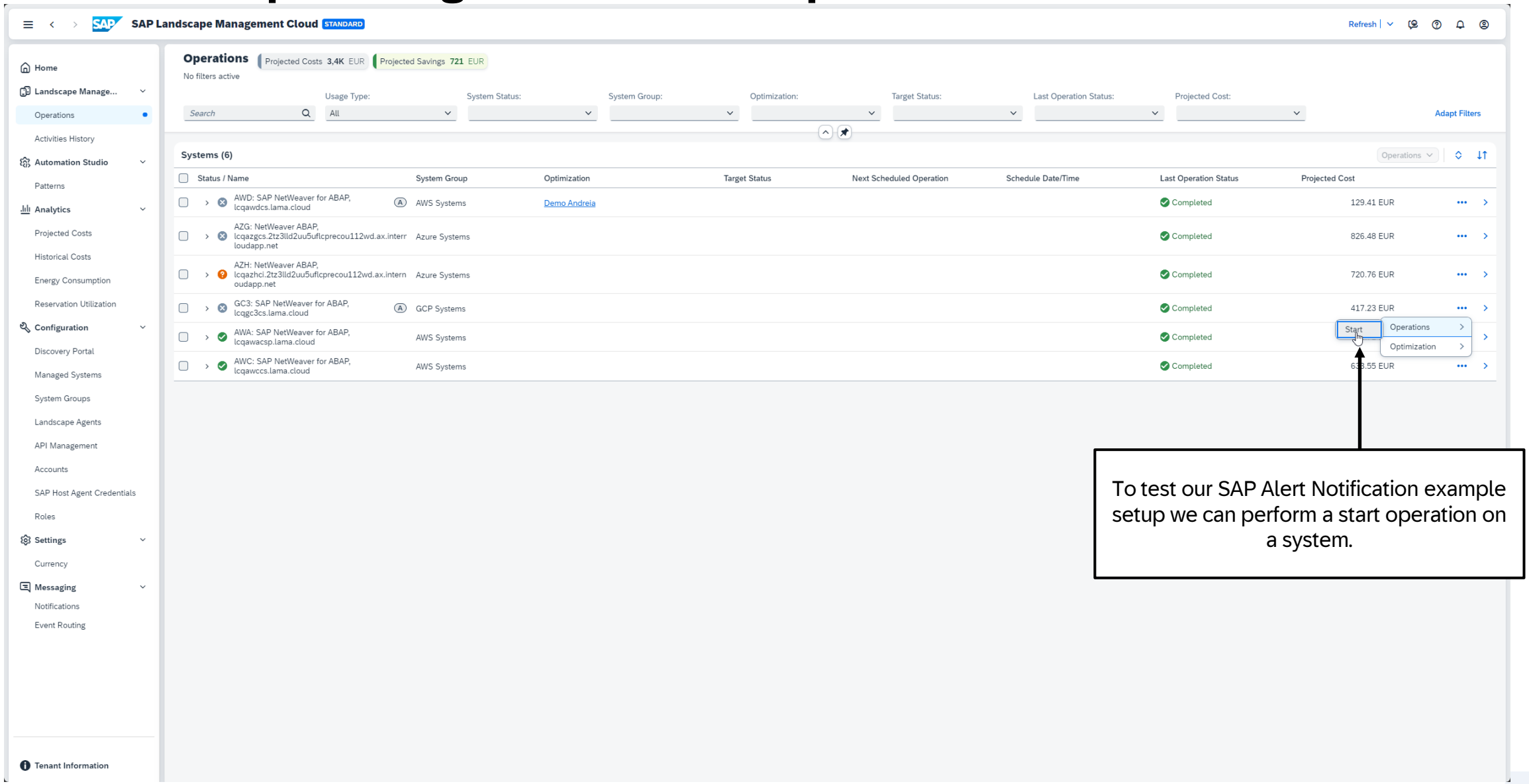
SAP Alert Notification Service – Create Subscription



Here is an example how to get notified by email for events concerning discovery, start and stop service events.

Public

SAP Landscape Management Cloud – Operation

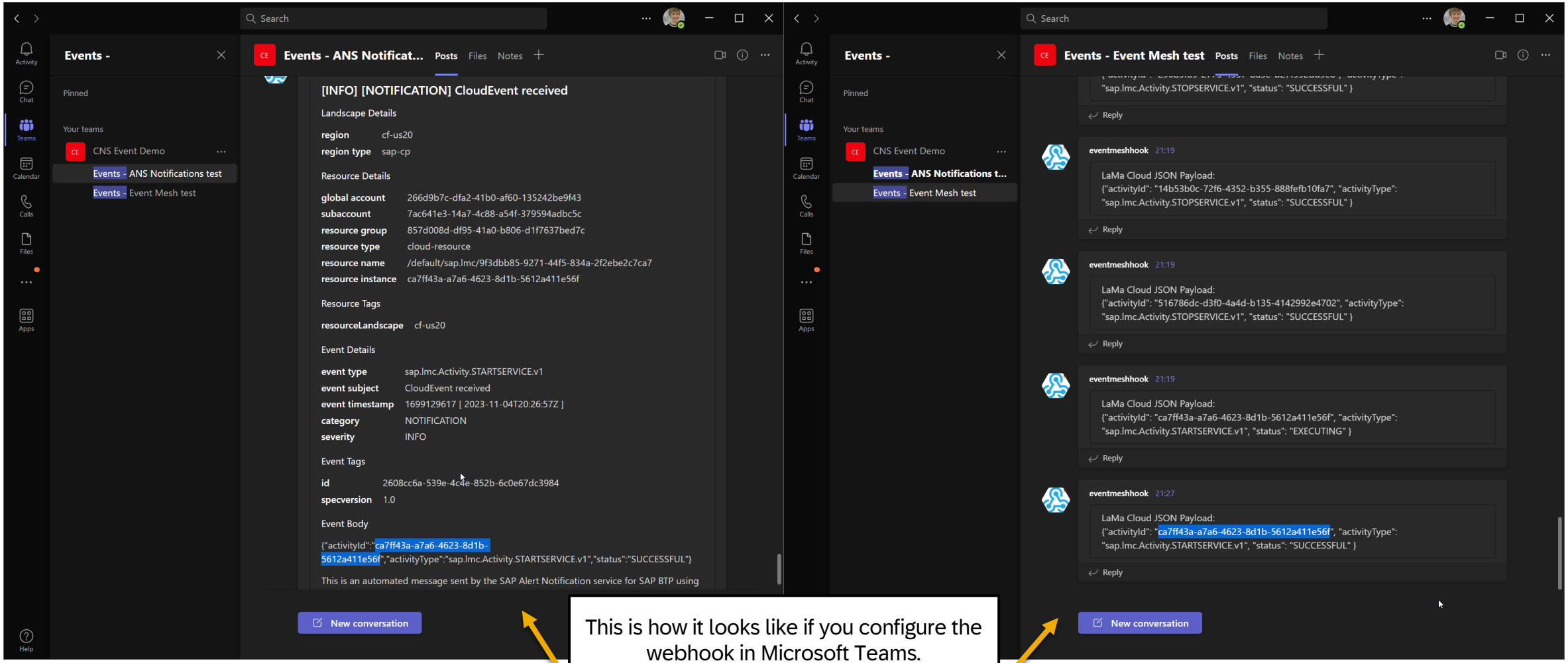


To test our SAP Alert Notification example setup we can perform a start operation on a system.

Public

SAPinsider

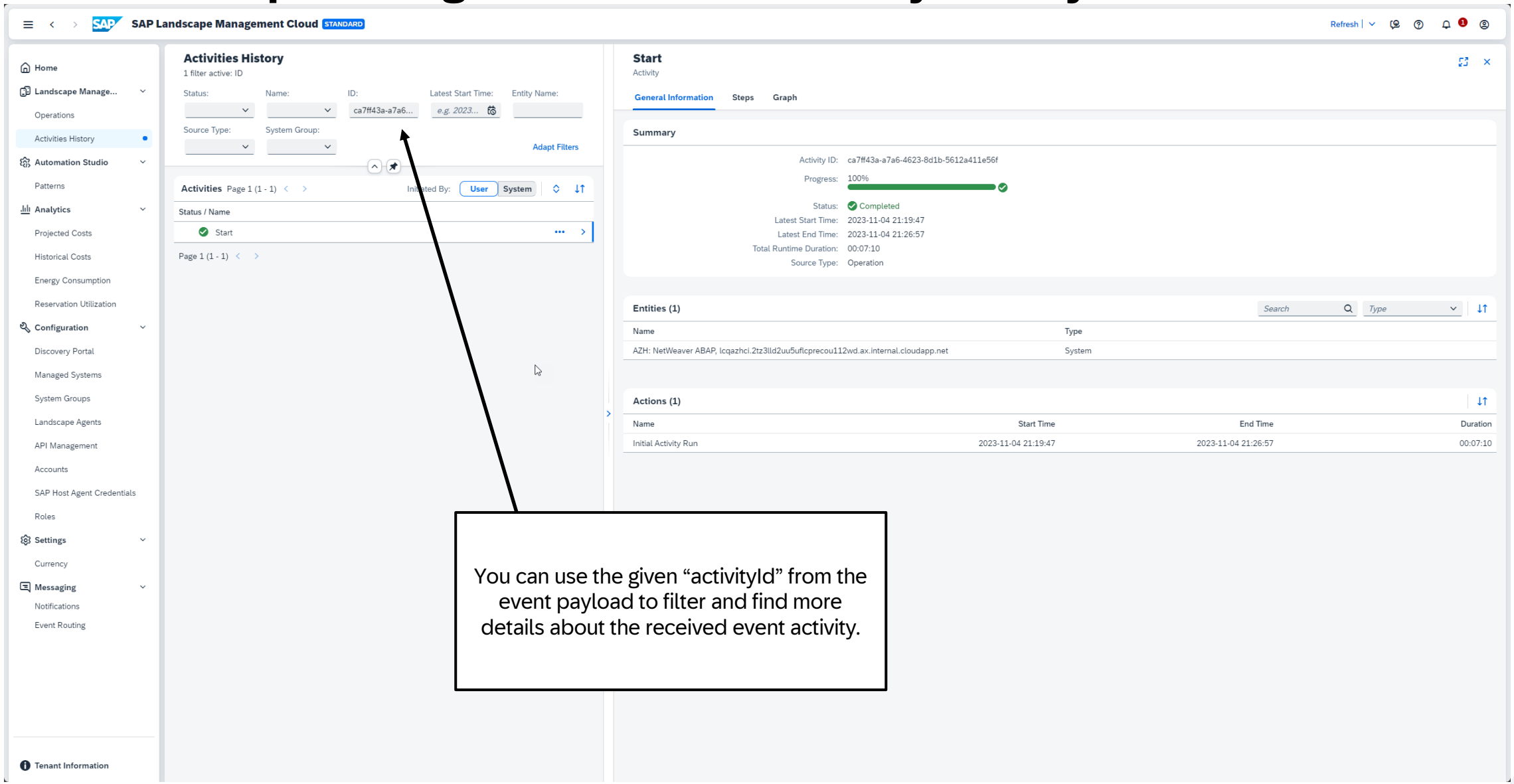
Event Routing – Teams Messages



This is how it looks like if you configure the webhook in Microsoft Teams.

On the left you see the SAP Alert Notification Service result and on the right you see an example with SAP Event Mesh.

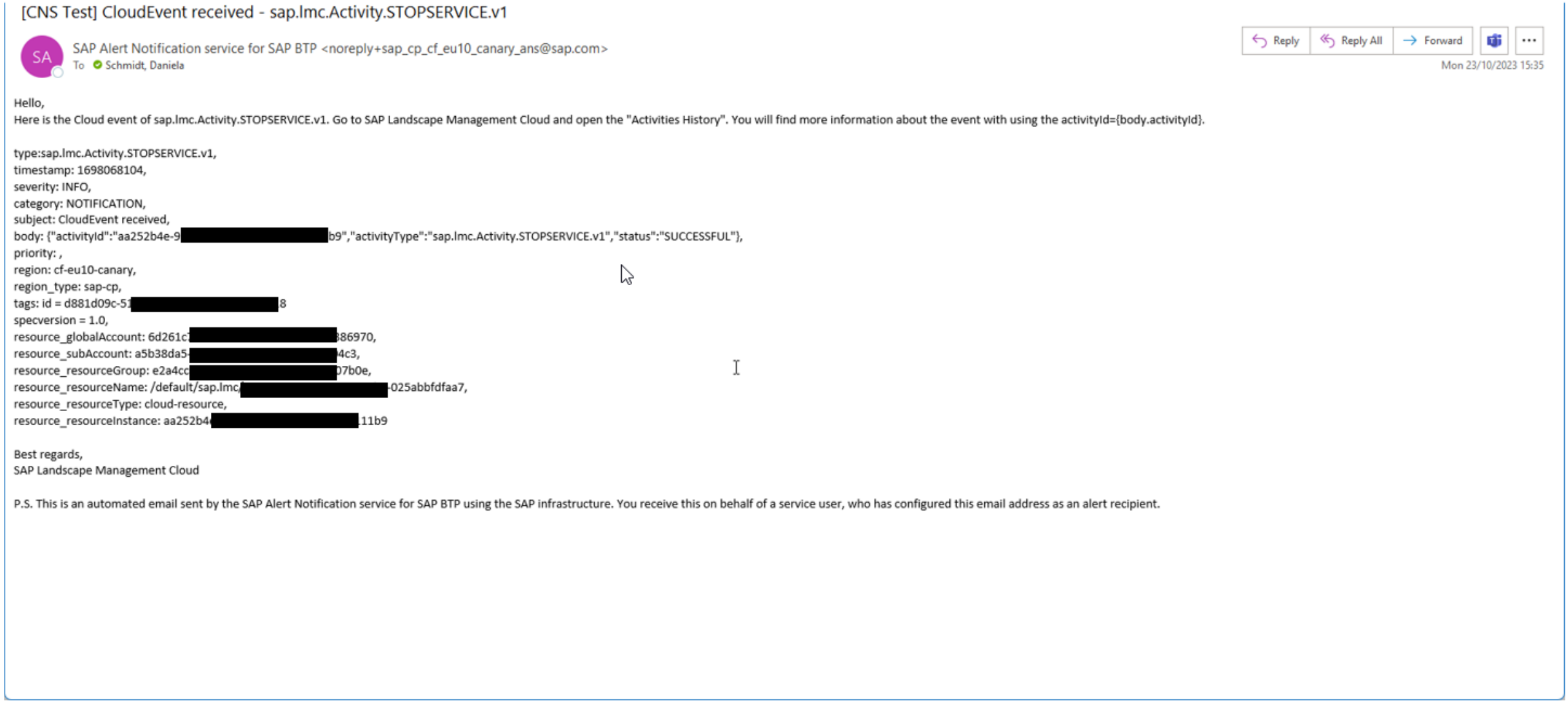
SAP Landscape Management Cloud – Activity History



Public

SAPinsider

SAP Alert Notification Service – Email Example for Received Event



[CNS Test] CloudEvent received - sap.lmc.Activity.STOPSERVICE.v1

SA

SAP Alert Notification service for SAP BTP <noreply+sap_cp_cf_eu10_canary_ans@sap.com>
To Schmidt, Daniela

Reply | Reply All | Forward

Mon 23/10/2023 15:35

Hello,
Here is the Cloud event of sap.lmc.Activity.STOPSERVICE.v1. Go to SAP Landscape Management Cloud and open the "Activities History". You will find more information about the event with using the activityId={body.activityId}.

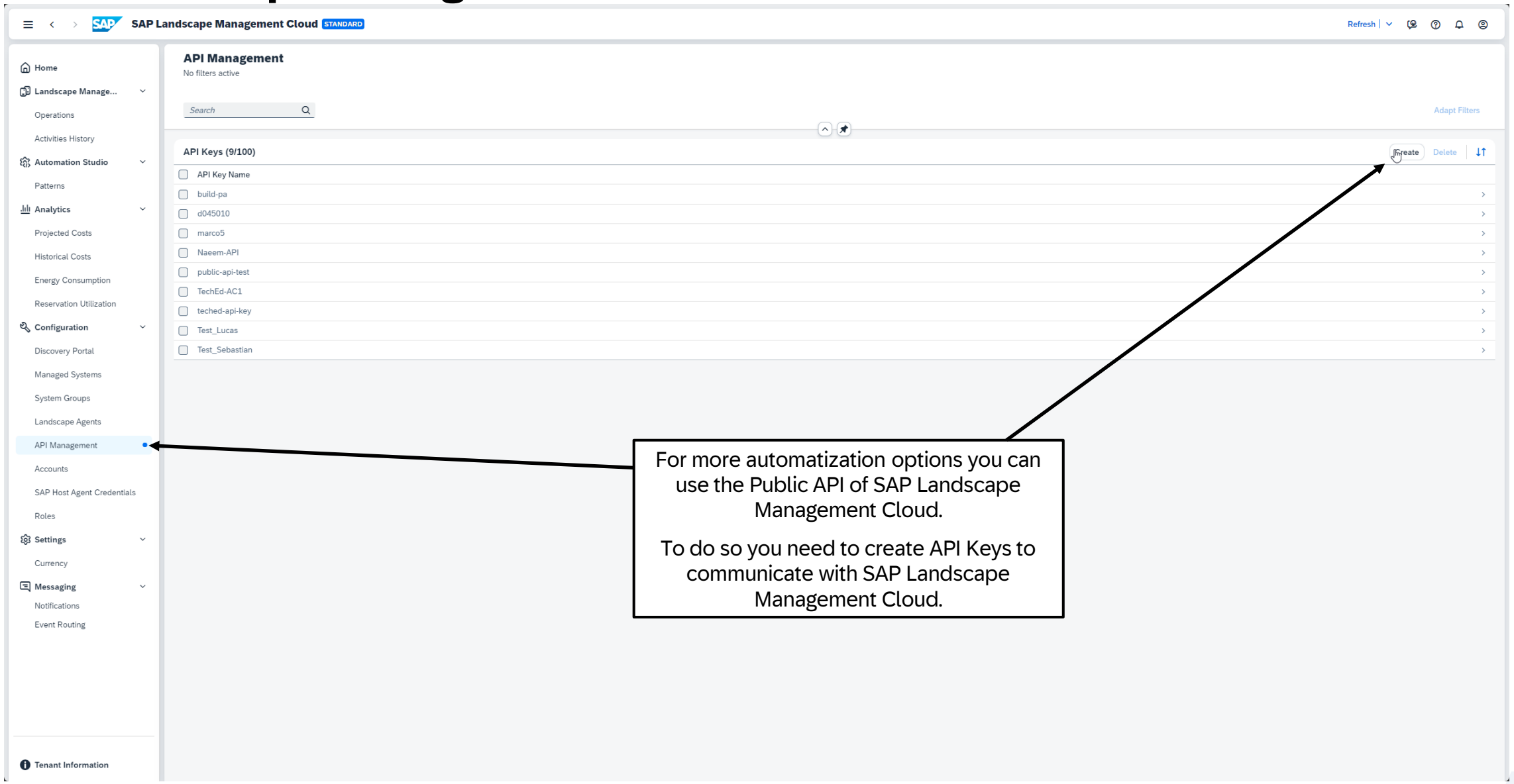
type:sap.lmc.Activity.STOPSERVICE.v1,
timestamp: 1698068104,
severity: INFO,
category: NOTIFICATION,
subject: CloudEvent received,
body: {"activityId":"aa252b4e-9[redacted]b9","activityType":"sap.lmc.Activity.STOPSERVICE.v1","status":"SUCCESSFUL"},
priority: ,
region: cf-eu10-canary,
region_type: sap-cp,
tags: id = d881d09c-51[redacted]8
specversion = 1.0,
resource_globalAccount: 6d261c7[redacted]386970,
resource_subAccount: a5b38da5-[redacted]4c3,
resource_resourceGroup: e2a4cc[redacted]07b0e,
resource_resourceName: /default/sap.lmc/[redacted]-025abbfdfaa7,
resource_resourceType: cloud-resource,
resource_resourceInstance: aa252b4[redacted]11b9

Best regards,
SAP Landscape Management Cloud

P.S. This is an automated email sent by the SAP Alert Notification service for SAP BTP using the SAP infrastructure. You receive this on behalf of a service user, who has configured this email address as an alert recipient.

Public

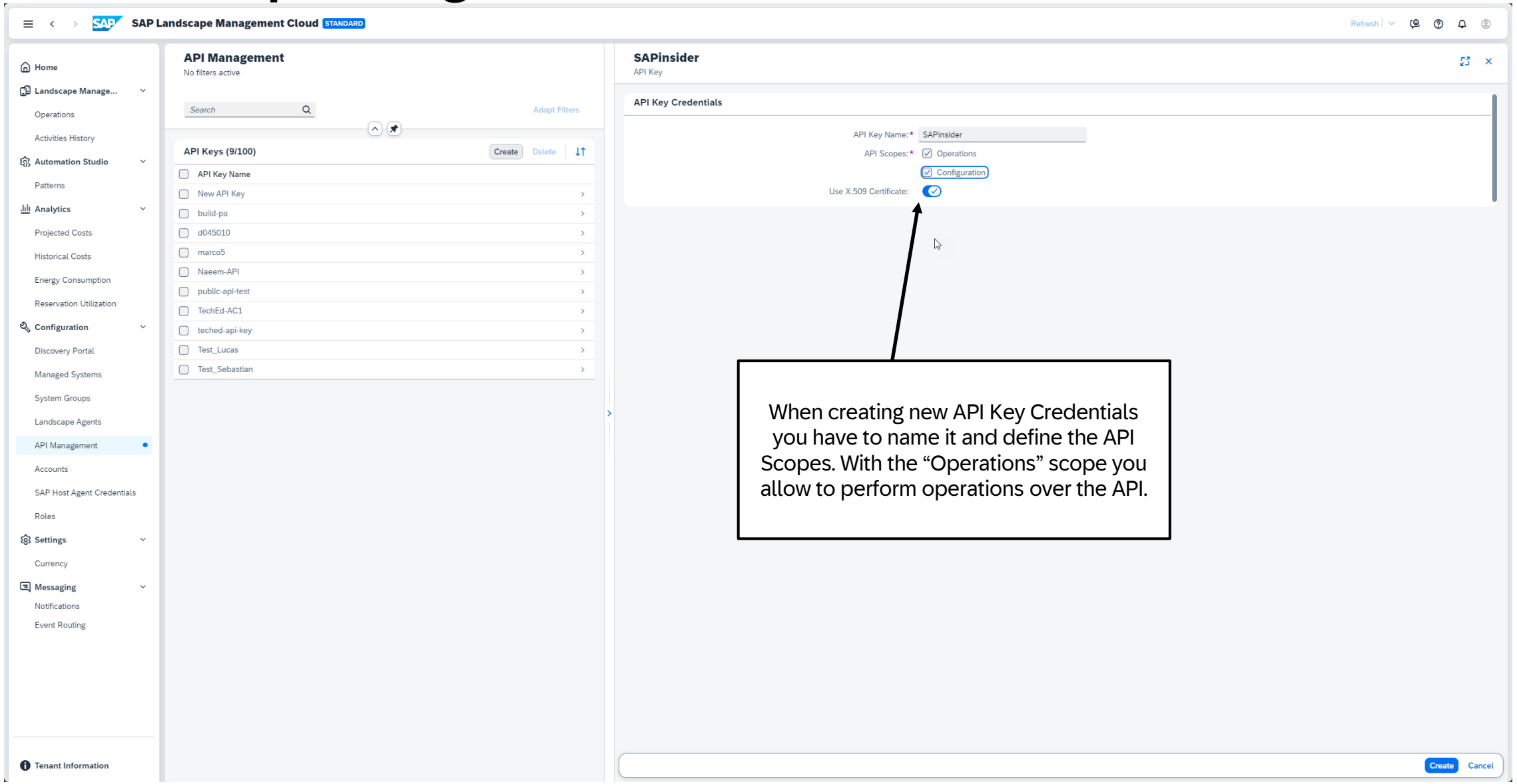
SAP Landscape Management Cloud – Public API



Public

SAPinsider

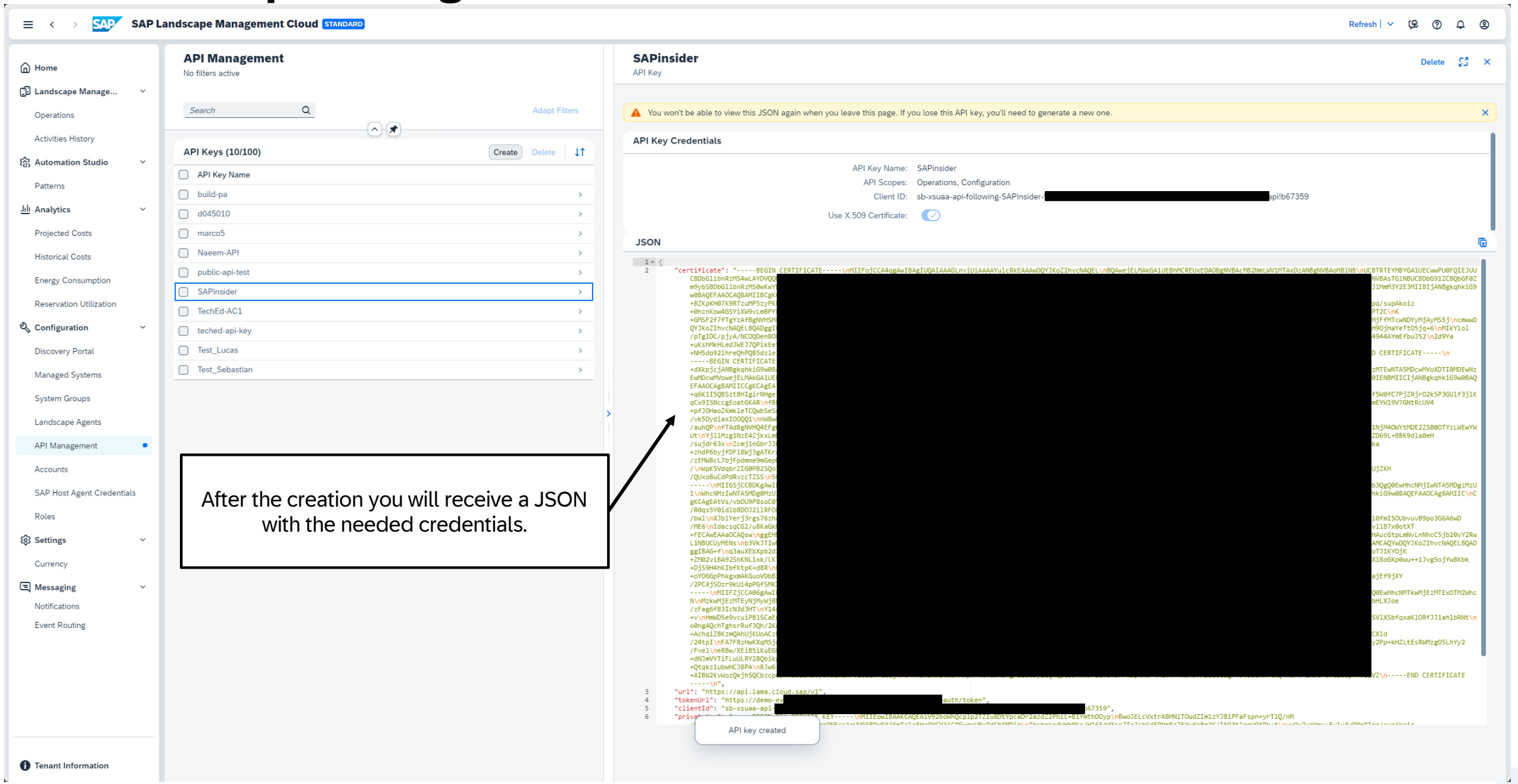
SAP Landscape Management Cloud – Public API



Public

SAPinsider

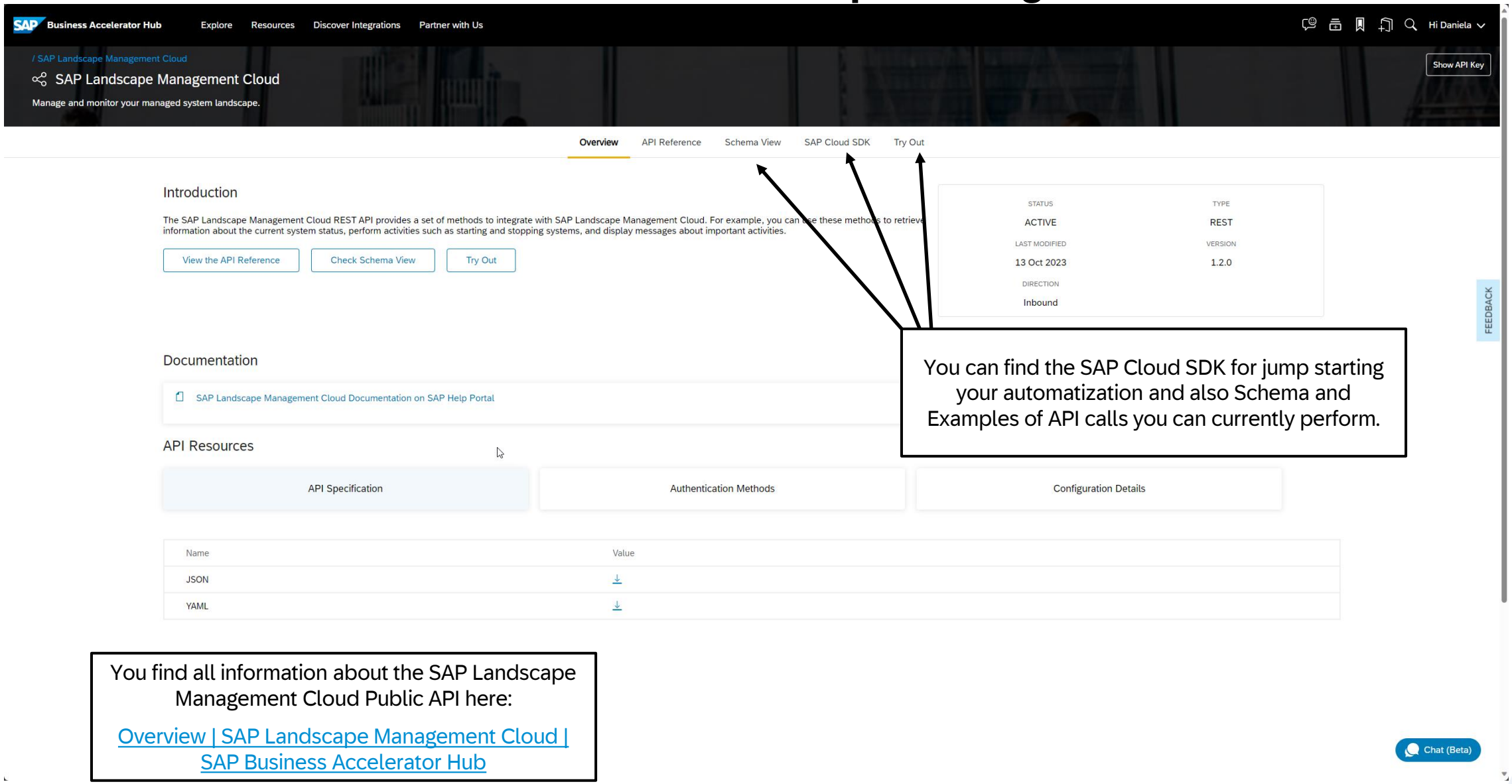
SAP Landscape Management Cloud – Public API



Public

SAPinsider

Business Accelerator Hub – SAP Landscape Management Cloud REST API

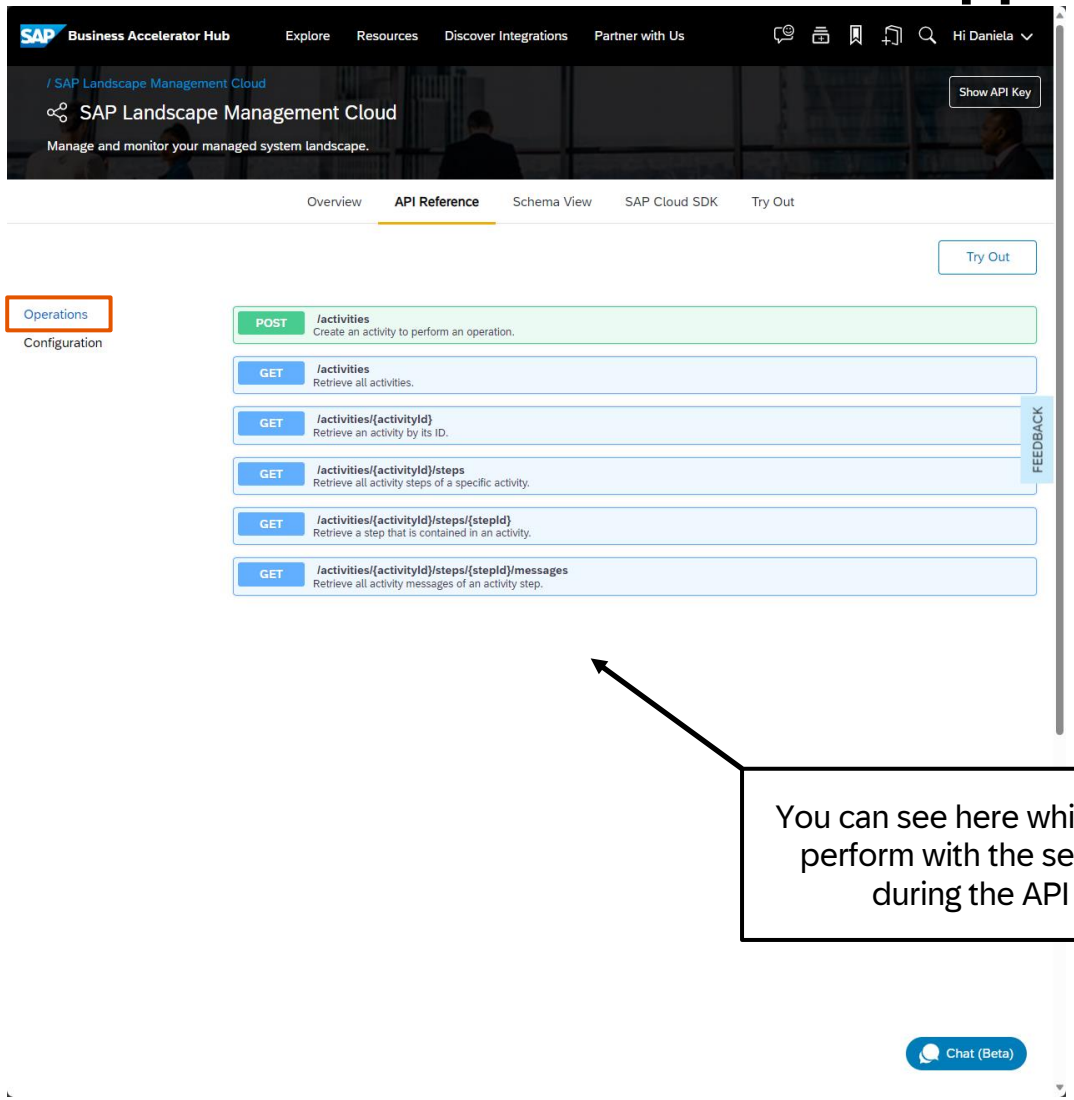


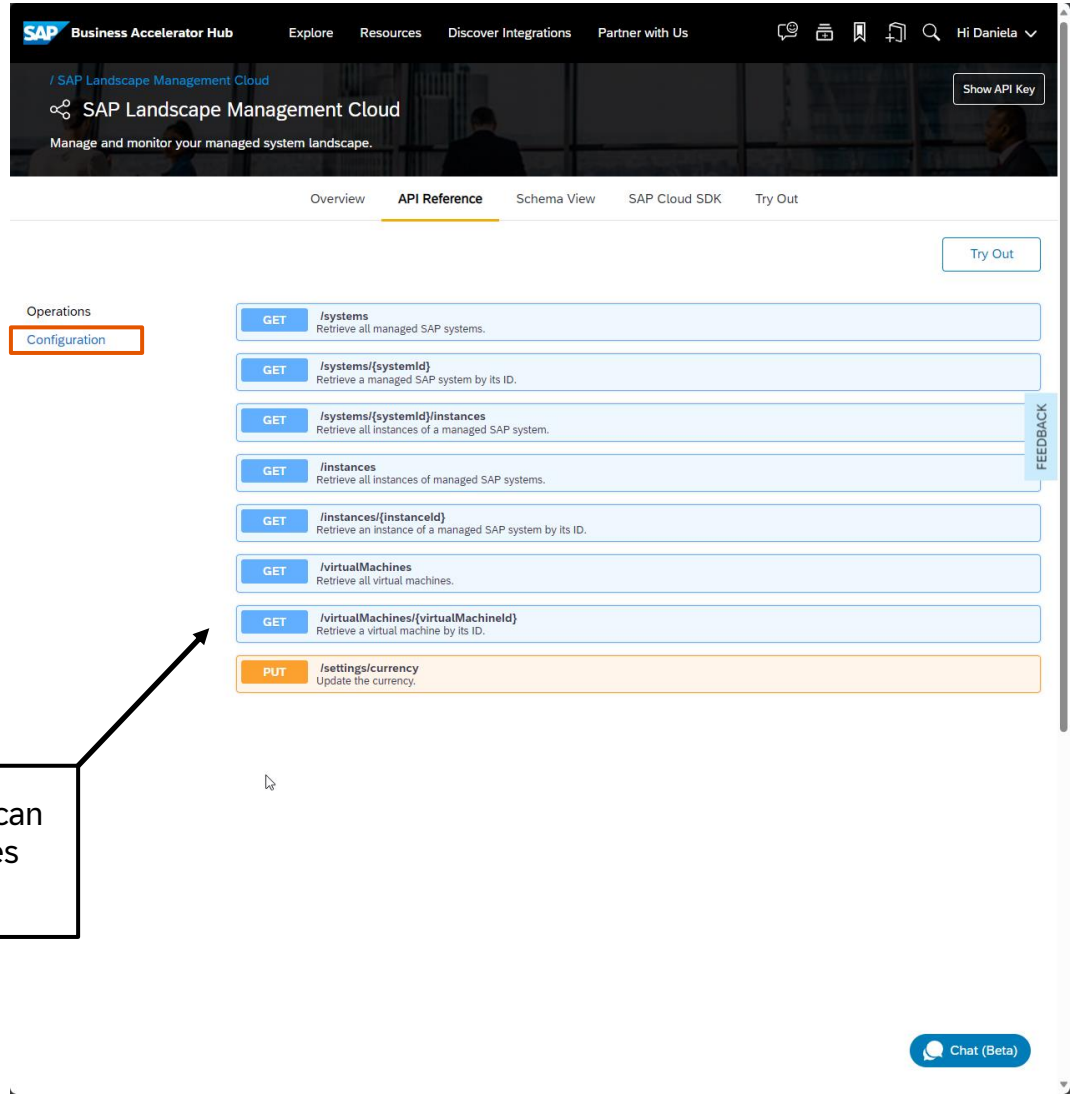
You can find the SAP Cloud SDK for jump starting your automatization and also Schema and Examples of API calls you can currently perform.

You find all information about the SAP Landscape Management Cloud Public API here:

[Overview | SAP Landscape Management Cloud | SAP Business Accelerator Hub]

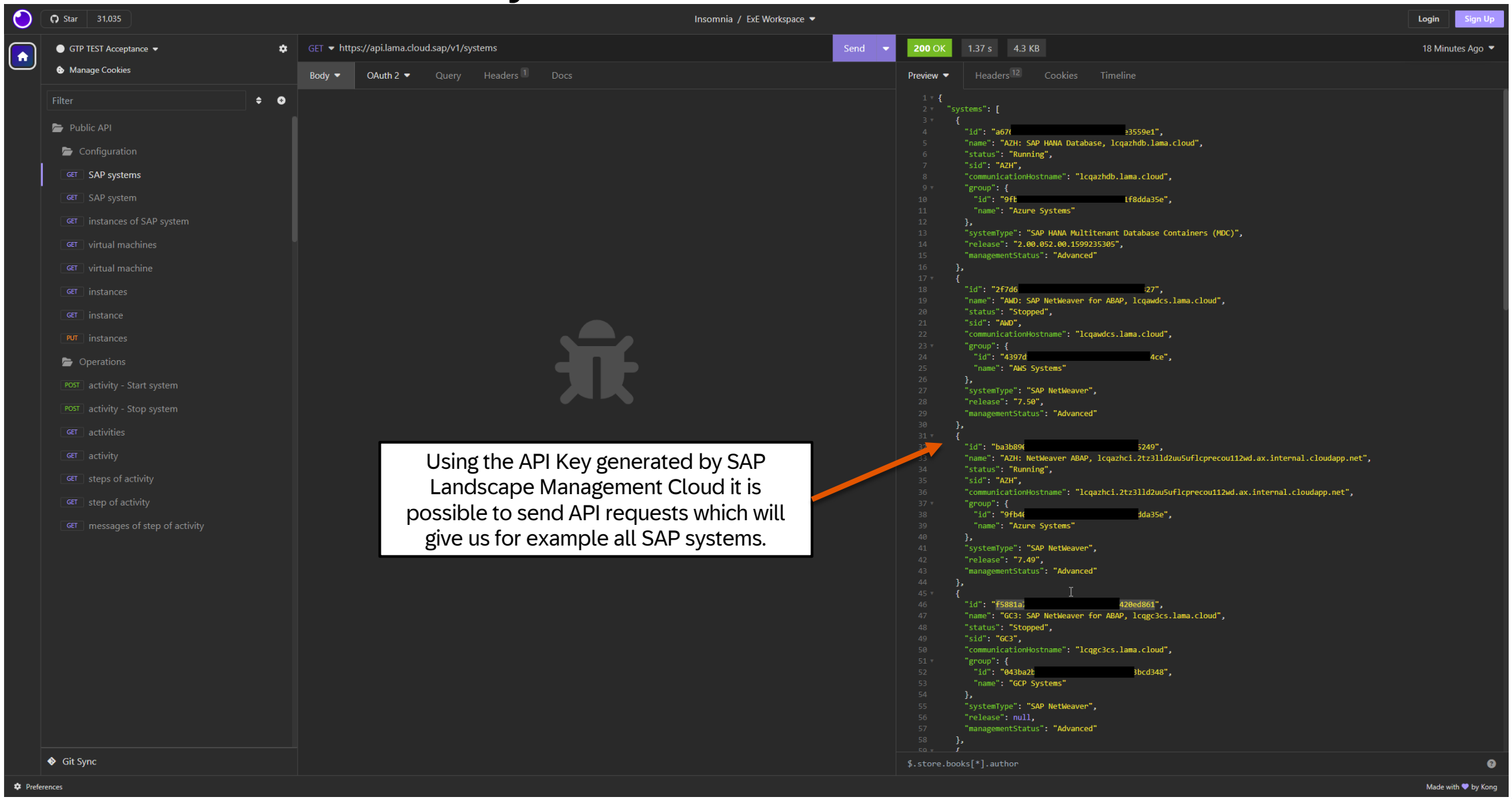
Business Accelerator Hub – Supported API Calls





You can see here which API calls you can perform with the selected API scopes during the API Key creation.

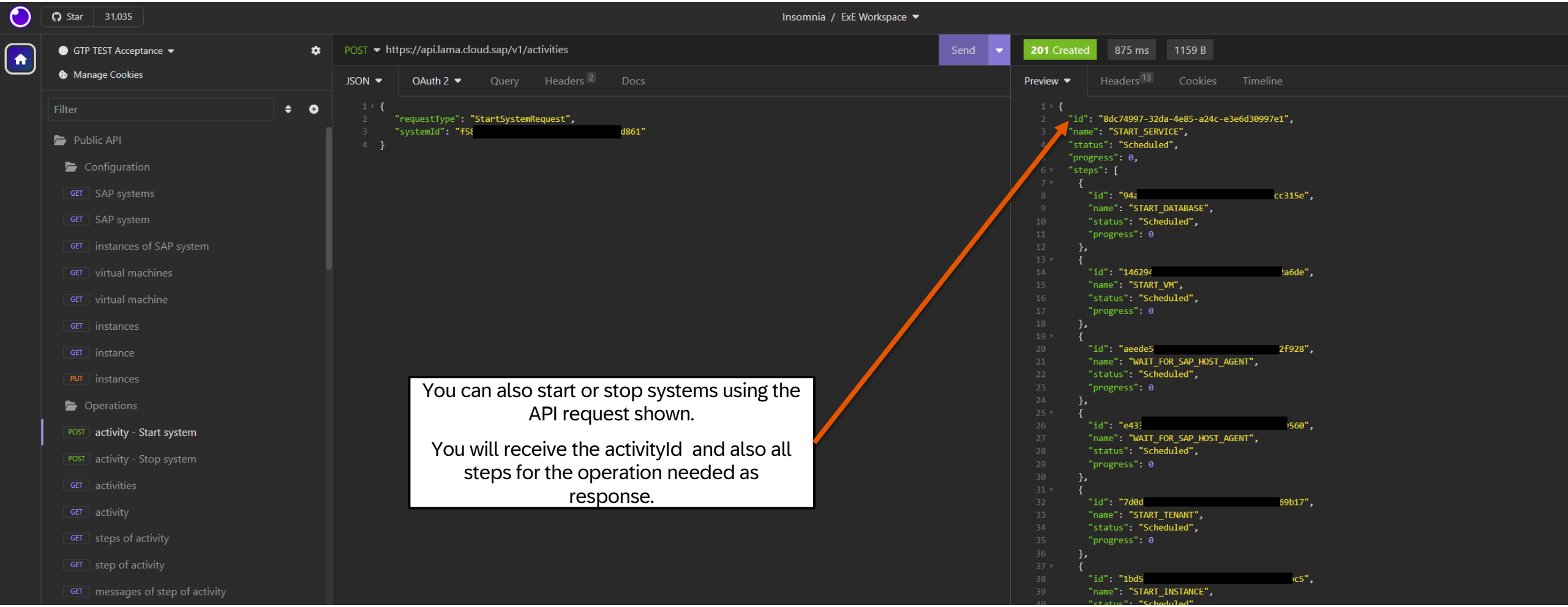
Insomnia – Retrieve all Systems via Public REST API



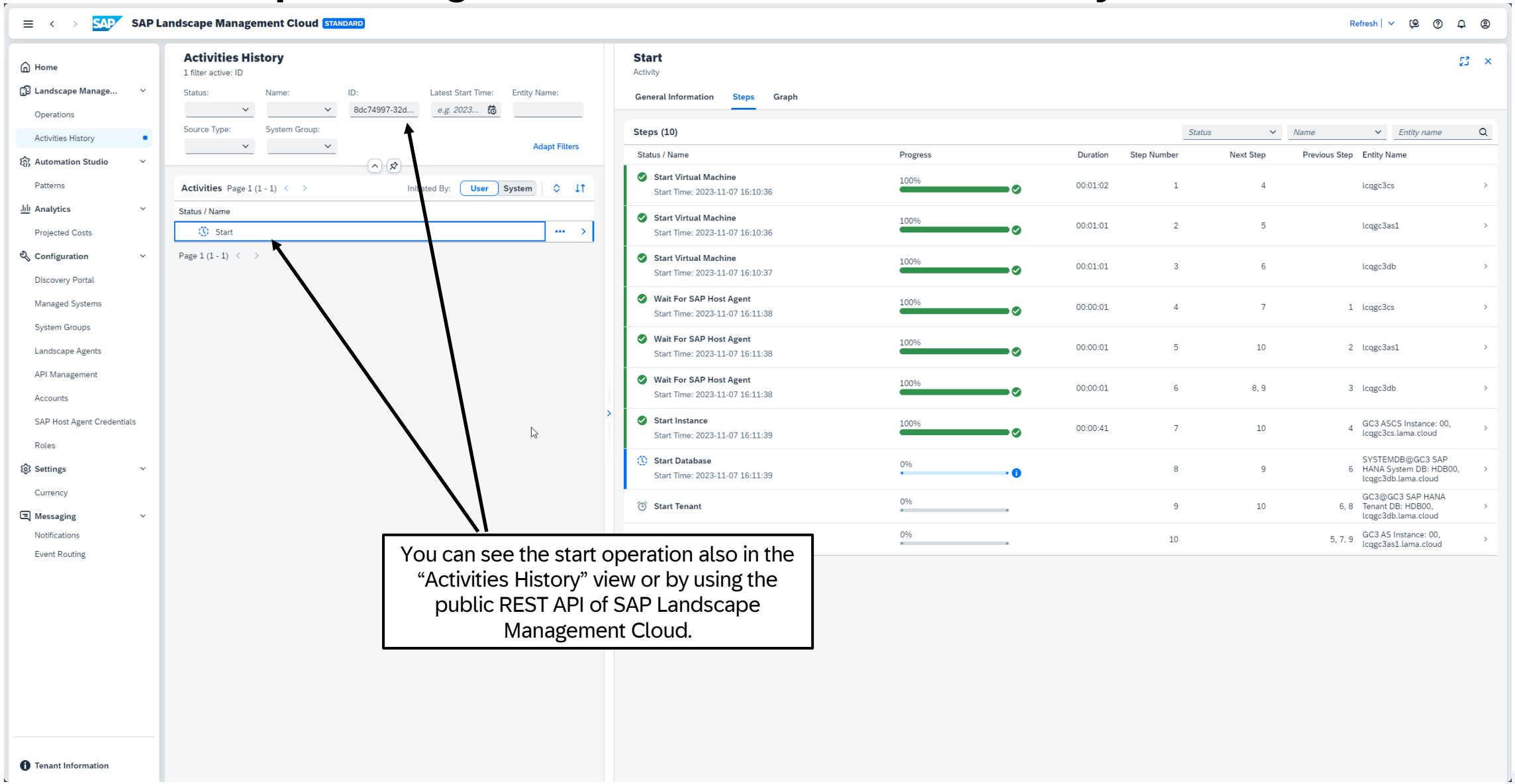
Public

SAPinsider

Insomnia – Perform Operation via Public REST API



SAP Landscape Management Cloud – Activities History



Public

SAPinsider

SAPinsider

SAPinsider.org

PO Box 982Hampstead, NH 03841
Copyright © 2023 Wellesley Information Services.
All rights reserved.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. Wellesley Information Services is neither owned nor controlled by SAP SE.

SAPinsider comprises the largest and fastest growing SAP membership group worldwide, with more than 750,000 global members.