

vRealize Operations Cloud Release Notes

vRealize Operations

You can find the most up-to-date technical documentation on the VMware website at:

<https://docs.vmware.com/>

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What's New April 13

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Starting with the April 2023 release, the product name is now changed from vRealize Operations Cloud to VMware Aria Operations. The VMware Aria Operations SaaS release notes is available here: <https://docs.vmware.com/en/VMware-Aria-Operations/services/rn/vmware-aria-operations-saas-release-notes/index.html>

What's New, March 14, 2023

2

- Chat in the side panel help of vRealize Operations Cloud is not available starting March 14, 2023. See the topic, [Get Support](#), on how you can raise an SR.

What's New, January 09, 2023

3

What's New

Oracle Cloud VMware Solution cloud account

- Manage and monitor Oracle Cloud VMware Solution with a simplified and dedicated cloud account.
- Discover Oracle Cloud VMware Solution SDDCs and configure the adapters to monitor vCenter, vSAN and NSX-T.
- Traverse Oracle Cloud VMware Solution objects, view summary pages, configuration maximums and get alerts for configuration maximums.
- Plan workload migration using the What-if migration scenarios to migrate workloads to the Oracle Cloud VMware Solution.
- Run compliance analysis for vCenter Objects such as hosts and virtual machines against various benchmarks and review cost based on rate card costing.
- Optimize and rightsize workloads.

For more information, see the following topics:

- [Configuring an Oracle Cloud VMware Solution Instance in vRealize Operations Cloud](#)
- [Summary Tabs for OCVS](#)

Automation central improvements

- The following additional actions are available for scheduling:
 - Schedule public cloud actions
 - Power on, power off, reboot GCP virtual machine instance
 - Power on, power off, reboot AWS EC2 instance
 - Power on, power off, reboot Azure virtual machine
 - Schedule vSphere virtual machine actions
 - Power on VM
 - Power off VM

- UX improvements and additional scope for selection (customer groups, custom datacenter, business applications, etc.) are now available.

For information, see the topic: [Create Job from Automation Central](#).

Synthetic monitoring

- Publish aggregated average monitoring metrics at business application level.
- Publish synthetic monitoring configuration properties at business application level.

For more information, see the topic: [Metrics for Synthetic Monitoring](#).

Application Monitoring

- Collector groups
 - Better user experience when creating collector groups.
 - View cloud proxies as a flat list or grouped by collector groups in the Data Sources → Cloud Proxies UI.
- High Availability for Application Monitoring
 - Application Monitoring now works with collector groups.
 - You can enable or disable Application Monitoring high availability from the Collector Groups UI.
 - A retry mechanism when there are changes in collector groups (remove/add cloud proxy to collector group) is now available.

For more information, see the following topics:

- [OS and Application Monitoring](#)
- [Install an Agent from the UI](#)
- [Additional Operations from the Manage Telegraf Agents Page](#)

Capacity management

- Granular settings for the Conservative risk level are now available.
- You can tune the level of conservativeness from one to five, with level 1 being the least conservative and level 5 being the most conservative. By default, the level of conservativeness is set to three. Modifying the level of conservativeness will make the projection bounds narrower or wider. The higher the level, the wider the upper bound and more conservative the projections for Time Remaining, Capacity Remaining and Recommended Size.
- Note:
 - Rare and momentary peaks may be considered outliers and may not impact the projections even at the most conservative risk level.

- Conservativeness strength is supported by the Conservative risk level. The Aggressive risk level produces Time Remaining, Capacity Remaining, Recommended Size metrics always based on the mean of the projection.

For more information, see the topic: [Capacity Details](#).

Known Issues

- 1 If the VMware Cloud on AWS inventory contains i4i.metal hosts, the costing of VMs show incorrect values.
- 2 When using the Migration to VCF Cloud option in the What-if section of vRealize Operations Cloud to migrate to VMware Cloud On AWS, all the required instance types are not listed.
The workaround for the above two issues is available in this the KB article, [90580](#).
- 3 Failover does not work in the Cloud Proxy HA Edit flow, when only the Cloud Proxy from the collector group is removed and a new Cloud Proxy is added at the same time.

What's New October 31, 2022

4

This chapter includes the following topics:

- [What's New](#)

What's New

- **Integration with vRealize Log Insight Cloud**

- Alerts created in vRealize Log Insight Cloud may be forwarded to vRealize Operations Cloud.

- **Bill based costing in VMware Cloud on Dell EMC**

- Retrieve incurred cost data from the bills generated by the cloud services platform (CSP).
- Use incurred cost data to understand total cost of ownership breakdown by compute and storage, potential savings and realized savings (Deferred).

For more information, see the topic [Configuring a VMware Cloud on Dell EMC Instance in vRealize Operations](#).

- **Replace web server certificate on Cloud Proxy**

- You can now replace web server certificates on port 443, used for incoming traffic to Cloud Proxy, using the `cprc-cli -rc` command. For more details, please refer to KB article, [89583](#).

For more information, see the topic [Using the Cloud Proxy Command-Line Interface](#).

- **vSAN ESA Support in vRealize Operations Cloud**

- vSAN Express Storage Architecture (vSAN ESA) introduces a new architecture for vSAN specifically with vSAN 8.0.
- It is an optional, alternative architecture in vSAN that is designed to achieve all-new levels of efficiency, scalability, and performance.
- The support for vSAN ESA has been added in vRealize Operations Cloud in the upcoming release milestone.

- The changes due to this support are as follows:
 - New Objects
 - vSAN Storage Pool
 - vSAN ESA Disk
 - Summary Pages
 - Two new summary pages introduced as a part of newly added objects.
For more information, see the following topics:
[vSAN World Summary Tab](#)
[vSAN Adapter Summary Tab](#)
[vSAN Storage Pool Summary Tab](#)
[vSAN ESA Disk Summary Tab](#)
 - Dashboards
 - Two new dashboards and five updated dashboards.
For more information, see the following topics:
[vSAN ESA Performance Dashboard](#)
[vSAN OSA Performance Dashboard](#)
[vSAN OSA Capacity Dashboard](#)
[vSAN ESA Capacity Dashboard](#)
 - New Metrics And Properties
 - Six new metrics and one new property at the vSAN Cluster Layer.
 - Twelve new metrics and one new property at the vSAN Storage Pool Layer.
 - Twenty one new metrics and 7 new properties at vSAN ESA Disk Layer
For more information, see the following topics:
[Metrics for vSAN Cluster](#)
[Metrics for vSAN Storage Pool](#)
[Metrics for vSAN ESA Disk](#)
[Properties of vSAN Cluster](#)
[Properties of vSAN Storage Pool](#)
[Properties of vSAN ESA Disk](#)
 - vRealize Operations Web Plugin in vCenter
 - Support added for newly added objects (vSAN Storage Pool and vSAN ESA Disk).

■ **Certificate Monitoring**

- Certificate monitoring capability is enhanced to monitor the following components:
 - Adapters
 - Outbound Plugins
 - Authentication Sources
- For each certificate, the following information is collected:
 - End date
 - Issuer DN
 - No. of days to expire
 - Start date

■ **Support for monitoring VMC on AWS Outposts**

- Manage and monitor VMware Cloud on AWS Outposts using the VMC on AWS integration account.
- Optimize capacity and performance, troubleshoot, and manage compliance for virtual machines against various benchmarks.
- Discover VMware Cloud on AWS Outpost SDDCs and configure the adapters to monitor vCenter, vSAN, and NSX-T.
- Traverse VMware Cloud on AWS Outpost objects and view summary pages.

For more details, see [VMware Cloud on AWS Outposts](#).

■ **Native Public Cloud**

- AWS
 - Review VPC and connected network services with the Network Services Overview Dashboard.
 - Gain insights into utilization and errors in EBS volumes and S3 buckets with the new Storage Services Overview Dashboard.

For more information, see the following topics:

[AWS Storage Services Overview Dashboard](#)

[AWS Network Services Overview Dashboard](#)

- Azure
 - Understand usage, availability and performance overviews of Azure Storage Accounts with the Azure Storage Account Overview dashboard.
 - Gain insight into AKS and Azure VNet usage with the Azure Kubernetes Service and Virtual Network Overview dashboards.

For more information, see the following topics:

[Azure Kubernetes Service Overview Dashboard](#)

[Azure Virtual Network Overview Dashboard](#)

[Azure Storage Account Overview Dashboard](#)

- **GCP**

- Support added for HTTP(S) GCP Cloud Load Balancers.
- Check network quotas and usage in VPC objects with new metrics to show limits and usage.
- Understand usage of GKE, Network Services and Storage Buckets with the new GKE, Network and Storage overview dashboards.

For more information, see the following topics:

[GCP Network Overview](#)

[GCP Kubernetes Service Overview](#)

[GCP Storage Bucket Overview](#)

[Supported GCP Services](#)

- **Sustainability**

- This feature introduces the VMWare Green Score, a score that organizations can use to track their sustainability journey, along with Power Consumption and Carbon Footprint information. Users can also view actionable insights and recommendations on how to be more sustainable in their IT operations.

For more information, see the following topics:

[Sustainability](#)

[Sustainability Metrics](#)

- **Removal of Legacy Actions**

The following actions have been removed:

- Export Guest User Mapping Action
- Clear Guest User Mapping Action
- Apply Guest User Mapping Action
- Configure Included Services Action

You can use the Service Discovery feature instead. For more information, see [Service and Application Discovery](#).

- **The NSX-T management pack supports the communication with NSX-T source via Policy APIs**

- For NSX-T versions less than 3.2.1 , existing manager APIs only will be used to communicate with NSX-T.
- For Policy APIs to be used internally within NSX-T Adapter the following conditions need to be met.
 - NSX-T version should be $\geq 3.2.1$.
 - In NSX-T, migration coordinator should have been started. You can migrate objects created in Manager Layer of NSX-T to Policy layer. This option to promote the Manager Objects to the Policy Layer is enabled only when you start the migration coordinator.
 - You should have promoted all the objects created in Manager Layer to the Policy Layer. When the migration coordinator is started, you are provided with an option to view/promote the objects that are present in Manager Layer, but are absent in the Policy layer in the NSX-T user interface.

- **Object Relationship Improvement in NSX-T**

Object relationship has been improved to extend the Edge transport node to the virtual machine on which it is provisioned.

There are two ways to deploy Edge in NSX-T. You can either use the NSX-T Manager (auto-deployed to vCenter using NSX-T manager) or manually register the VMs to NSX-T via CLI. The manually deployed Edges are not managed by NSX-T and hence that information is not present with NSX-T. Hence, the mapping/relationship for Edge transport nodes and the Edge VM will only be for Edges deployed through the NSX-T Manager.

- **Upgrade of the vSphere Compliance Pack**

- Harden your infrastructure and adhere to controls as defined in the latest security configuration guide - [VMware vSphere Security Configuration Guide 7](#) - Controls - 701-20210210-01
- Refer to [KB88721](#) and get a comprehensive view of the newly introduced technical controls. This KB is a good source to introduce manual operational best practices for enhanced infrastructure security across your environments.

For more details, see [What Are Compliance Benchmarks](#).

What's New October 20, 2022

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Core Based Licensing is available under vRealize Cloud Universal & vRealize Suite. For more details, see: [VMware vRealize Cloud Subscription Manager Release Notes](#).

What's New October 4, 2022

6

Fixed Issues:

- A number of product fixes are included as part of this update. See detailed list in see [KB 89634](#).

What's New July 26, 2022

7

■ Synthetic Monitoring

- Monitor common user paths in your business applications through simulated API calls.
- Track business application availability and performance.
- Automated anomaly detection of application response time using machine learning.
- Support for OAuth and Bearer Token.
- Correlate business application metrics with infrastructure activities.

For more information, see the topic, [Configure, Enable, or Disable Synthetic Monitoring](#).

■ Automation central improvements

- New Monthly recurrence for the jobs. Schedule a job for multiple days in a multiple months at once. Flexible Date and Day in a week selection.
- Set start time in 5 minutes interval with default the closest to your local time.
- Simplify page design.

For more information, see the topic, [Create Job from Automation Central](#).

■ NSX-T using IPv6

- vRealize Operations can now integrate with NSX-T endpoint using an IPv6 address.

For more information, see the topic, [Configuring the NSX-T Adapter](#).

■ Application discovery based on rules

- With a single easy to create rule, you can discover multiple applications.
- Rules can be defined based on tags, properties, and object names.
- You may control the scope of objects within which applications are discovered in 'Environment->Applications->Manage Applications' page. You could control the discovery at the level of vCenter, Cluster compute resource, Host system etc.

For more information, see the topic, [Discovered Rule-Based Applications](#).

■ Application discovery based on services

- You may control the scope of objects within which applications are discovered in 'Environment->Applications->Manage Applications' page. You could control the discovery at the level of vCenter, Cluster compute resource, Host system etc.
- Previously, discovery would happen at the vCenter level by default.
- For all new application definitions, you are now needed to specify the scope as a mandatory step after creating the application definition.
- For all existing application definitions, discovery will continue at vCenter level post upgrade.

■ New Metrics and properties to expand Cloud Management capabilities and visibility

- Three new VM metrics IOPS per GB, Peak Network Packet per second and Peak Guest OS Page-out rate have been introduced in this release.
- In addition to the above change New Properties for VM, Host, Cluster, Datastore, Datastore Cluster, Distributed Port Group and Distributed Switch have been added as well. See the updated documentation on **vCenter Properties** to get exact details in this regard.

For more information, see the topic, [Metric, Property, and Alert Definitions](#).

■ Super Metrics

- Workflow is redesigned to simplify the creation of super metrics.
- Formula typing experience is improved.
- 'This' option on the UI is moved to the formula editor.
- The object selection pane in the 'Legacy' tab is deprecated.

For more information, see the topic, [Create a Super Metric](#).

■ VCF cloud account

- You can configure VCF cloud account to auto discover domains and underlying adapters along with their credentials.
- Introducing VCF traversal spec, summary pages and OOTB dashboards.

For more information, see the topic, [VMware Cloud Foundation](#).

■ VMware Cloud on Dell EMC cloud account

- Manage and monitor VMware cloud on Dell EMC with a simplified and dedicated cloud account.
- Discover VMware cloud on Dell EMC SDDCs and configure the adapters to monitor vCenter, vSAN and NSX-T.
- Traverse VMware cloud on Dell EMC objects, view summary pages, configuration maximums and get alerts for configuration maximums.

- Plan workload migration using What-if migration scenario to migrate workload to VMware cloud on Dell EMC.
- Run compliance analysis for virtual machines against various benchmarks, review cost based on rate card costing.
- Rightsize workloads.

For more information, see the topic, [VMware Cloud on Dell EMC](#).

■ Native Public Cloud

■ AWS

- Enhanced visibility into your AWS environments with metric and service dependency support for Storage, Analytics, Network and Database Services.
- Gain insights into your AWS resource usage and EC2 performance with the new AWS inventory and EC2 overview dashboards.
- Start, stop and reboot EC2 instances individually or in bulk (from Inventory).

For more information, see the following topics:

- [Supported AWS Services](#)
- [AWS Inventory Dashboard](#)
- [Compute EC2 Dashboard](#)
- [Power On, Power Off, and Reboot Actions](#)

■ Azure

- Support for all the services in Azure with metrics and service dependencies.
- Gain insights into your Azure resource usage and Azure VM performance with the new Azure inventory and Azure Virtual Machine overview dashboards.
- Start, stop and reboot Azure VM instances individually or in bulk (from Inventory).

For more information, see the following topics:

- [Supported Azure Services](#)
- [Azure Inventory Dashboard](#)
- [Azure Virtual Machine Dashboard](#)
- [Power On, Power Off, and Reboot Actions](#)

■ GCP

- Support added for all GCP Compute services with metrics and service dependencies.
- Gain insights into your GCP resource usage and GCP Compute Engine performance with the new GCP inventory and Compute Engine overview dashboards.
- Start, stop and reboot Compute Engine instances individually or in bulk (from Inventory).

For more information, see the following topics:

- [Supported GCP Services](#)
- [GCP Inventory Dashboard](#)
- [GCP Compute: CE Dashboard](#)
- [Power On, Power Off, and Reboot Actions](#)
- **Public Cloud Application Monitoring**
 - You can now monitor applications in Public Clouds i.e Azure/AWS using Open Source Telegraf agent and cloud proxy deployed in Azure/AWS to track OS and Application metrics, monitor processes and services.
 - Cloud Proxy can be deployed on Azure/AWS and support for Open Source Telegraf can be enabled. VM offer and AMI images is available in Azure and AWS marketplace.
 - Relationship between Azure/AWS objects and the metrics collected will be created automatically if the corresponding Azure/AWS objects exists in vRealize Operations Cloud.
 - Cloud Proxy Configuration User Interface in vRealize Operations Cloud is revamped to provide instructions to deploy the cloud proxy in AWS and Azure.

For more information, see the following topics:

- [Monitoring Application Services and Operating Systems using Open Source Telegraf](#)
- [Monitoring Applications using Open Source Telegraf on a Linux Platform](#)
- [Monitoring Applications using Open Source Telegraf on a Windows Platform](#)
- [Sample Configurations](#)
- [Configuring Cloud Proxies in AWS and Azure](#)
- [Configuring Cloud Proxies in VMware Cloud](#)
- **Cloud Proxy troubleshooting CLI**
 - A new CLI option -d now helps diagnose frequently occurring issues relating to installation, connection, network and services.
 - It highlights the issue, and provides remediation steps, for faster troubleshooting.

For more information, see the topic, [Using the Cloud Proxy Command Line Interface](#).

- **Cloud Proxy certificate management**
 - Cloud Proxy now allows addition of multiple certificates or a certificate group while deployment.
 - Additional certificates may be added to a Cloud Proxy by adding vApp option properties using the key class ID cprc_ca. This helps segregate the various certificates for better management.

- A new CLI option `-cs` now shows the status of all certificates added to a Cloud Proxy, clearly highlighting any incorrectly configured certificate.

For more information, see the following topics:

- [Configuring Cloud Proxies in vRealize Operations Cloud](#)
- [KB 83698](#)
- [Using the Cloud Proxy Command-Line Interface](#)

■ **Cloud Proxy upgrade enhancement**

- To ensure optimum use of network bandwidth, Cloud Proxy upgrades would now happen sequentially, starting with 10, and then rolling as CPs get upgraded.

For more information, see the topic, [Upgrading Cloud Proxy](#).

■ **Data Persistence for Cloud Proxy**

- Cloud Proxy now allows for persistence of data to ensure service continuity in case of network interruptions.

For more information, see the following topics:

- [Configuring Cloud Proxies in VMware Cloud](#)
- [Monitoring the Health of Cloud Proxies](#)

■ **Export views to external tools for reporting**

- vRealize Operations Cloud now allows exporting views via API, using the view definition ID.
- This capability can be used to export views to tools such as MS Power BI and Tableau for reporting purposes.

For more information, see the topic, [Share a View](#).

■ **View Enhancements**

- Experience enhancement to provide flexible preview and intuitive flow.
- A sample preview source is now selected by default for faster feedback on presentation of the view.
- Last selected preview source is shown in history to help preserve view configuration.

For more information, see the following topics:

- [Create and Configure a View](#)
- [List View](#)
- [Summary View](#)
- [Trend View](#)
- [Distribution View](#)

- [Text View](#)
- [Image View](#)
- **Capacity management**
 - Ability to reserve resources for upcoming projects using 'commit', in tandem with what-if analysis for capacity planning.
 - View results of what-if analysis based on allocation model.
 - Ability to specify business hours for capacity calculations.

For more information, see the following topics:

- [What-If Analysis: Modeling Workload, Capacity, or Migration Planning](#)
- [Capacity Details](#)
- [Optimize Capacity](#)
- **Configuration files page redesign**
 - Users can now organise their files into custom folders and perform actions such as edit, add, and delete folders, thereby giving them more flexibility. The user experience has also been made consistent to other product areas.

For more information, see the following topics:

- [Configuration Files for Widget Metric](#)
- [Configuration Configuration Files for Text Widget Content](#)
- [Configuration Files for Solutions](#)
- [Configuration Files for the Topology Widget](#)
- **vSAN Adapter Enhancements**
 - SPBM API Support Added
 - With this change the administrator can see the vSAN Policy Values in vRealize Operations Cloud. For more information, see the topic, [Properties for vCenter Server Components](#).
 - In addition to the above change two new metrics "**Usage Without Overhead (GB)**" and "**vSAN Overhead(GB)**" have been introduced.

What's New May 04, 2022



Here are new features in the cloud offering:

- Search support in the administration page.
 - vRealize Operations Cloud now provides a search box in the administration page to search for an administration item.
- New in-app guides.
 - vRealize Operations Cloud has a host of new in-app guides. Explore these new set of guides to understand Cost and Capacity related aspects in vRealize Operations Cloud. In-app guides are multi-step guided walk through that are designed to help you complete a workflow within vRealize Operations Cloud. For more information, see: [In-App Guided Tours](#).
 - The in-app guided tours are available in the following languages:
 - Chinese Taiwan (zh-TW)
 - Mainland China (zh-CN)
 - Japanese (Ja)
 - German (de)
 - Spanish (es)
 - French (fr)
 - Korean (ko)
- Advanced workload placement.
 - vRealize Operations Cloud provides workload placement recommendations for vRealize Automation Manager. vRealize Operations Cloud identifies the best cluster for deployment among several cloud zone clusters.
 - The current algorithm takes into account the cluster utilization based on demand model only. The demand across all clusters in a given cloud zone is evaluated against the deployment request in order to recommend the most suitable cluster. However, there are use cases that needs placement decisions to also consider allocation model. This feature leverages the over commit ratios in addition to demand model to make placement recommendations.

- Cloud Proxy.
 - vRealize Operations cloud proxy now checks and alerts for upgrade failures due to space constraints. The proactive alert will help with quick remediation to minimise any collection loss.
 - vRealize Operations cloud proxy support bundle now captures system variable, service statuses and other configurations for faster troubleshooting.
- Alerts enhancements.
 - [Actions](#) and [Recommendations](#) sections now provide a detail view, along with a navigation link to the corresponding recommendations, and alert definitions respectively. This will help improve search and discovery of relevant actions, recommendations and alerts.
- Access control enhancements.
 - A new configuration element, “Scope,” allows you to control the access to objects in a template format in conjunction with Roles.
 - The User Interface of the Add and Edit operation is changed from multi-page to single-page design. This allows you to review and edit the configuration easily. For more information, see: [Access Control in vRealize Operations Cloud](#).
- Filter enhancement.
 - vRealize Operations Cloud now provides users the ability to perform combinational search through the various filters available in the product, to simplify discovery. Users can now use "\", ":", ",", and whitespace to provide more precise filter.
 - vRealize Operations now provides users the ability to provide string representation of the available filters in the form of key:value pairs, to simplify search and discovery of content.
- New properties added for RDM Disk in virtual machines.
 - Support for RDM has been added in vRealize Operations Cloud in this release. You can now see the properties of RDM Disks in vRealize Operations Cloud.
 - New disk properties added for Multi Disk Sharing and SCSI Bus Sharing, whether the disk is configured for RDM or VMDK. For more information, see [Virtual Machine Properties](#).
- Simple alerts.
 - Users now have the ability to create a simple alert without the need to create an associated symptom definition. This can be done by using metrics and by creating in-line conditions directly from metric charts eventually applying the alert to objects of the same type within the applicable policy.

You can also check out the [What's New in vRealize Operations Cloud May 2022 Update](#) video on YouTube and the [What's New in vRealize Operations May 2022 Update Blog](#).

What's New March 29, 2022

9

vRealize Operations Cloud is now available in:

- India

In addition to the following regions:

- Japan
- Asia Pacific (Sydney)
- Brazil
- Canada
- Germany (Frankfurt)
- Singapore
- United Kingdom
- US West (Oregon)

What's New February 28, 2022

10

Resolved Issue

vRealize Operations Cloud update to address a critical resiliency related issue to the cost engine.

What's New January 27, 2022

11

Here are new features in the cloud offering:

vRealize Operations Cloud Proxy Enhancements

- vRealize Operations Cloud Proxy Resiliency
 - vRealize Operations cloud proxy now provides enhanced resiliency to handle network interruptions during upgrade.
 - Improved connection load management between vRealize Operations cloud proxy and the cloud to minimize drops in environments with high load.
- vRealize Operations Cloud Proxy Troubleshooting
 - Users would now see error messages related to incorrect OTK (used while deploying the cloud proxy) in the logs.
 - vRealize Operations Cloud customers would now be automatically notified to manually upgrade Cloud Proxy in case of upgrade failures due to network interruptions.
 - Users can now troubleshoot cloud proxy connection and upgrade related issues by referring to the updated [Cloud Proxy Troubleshooting](#) topic.
 - [Cloud Proxy FAQ](#) topic to help with connection, sizing, migration and high availability related queries.
- Fixes
 - Log rotation fixes for efficient partition management in cloud proxy VM.
 - Deletion of cloud proxy now removes any deleted local users from the orphan content section.

vRealize Operations Cloud In-App Enhancements

- Region Selection
 - Organization owner can now select the region where they want vRealize Operations Cloud service will be hosted. They can choose from the supported list of regions during the service activation step. For more information, see [How to Get Started with vRealize Operations Cloud](#).

■ In-App Purchase Experience

- vRealize Operations Cloud now provides the ability for the admin to initiate the purchase of the service from within the UI. User will be redirected to the vRealize Cloud Subscription Manager which provides the admin the capability to purchase the service. For more information, see: [vRealize Operations Cloud Trial Experience](#).

New In-App Guides

- vRealize Operations Cloud has a host of new in-app guides. Explore these new set of guides to understand Performance and Availability related aspects in vRealize Operations Cloud. Note: In-app guides are multi-step guided walk throughs that are designed to help the users to complete a workflow within vRealize Operations Cloud. For more information, see: [In-App Guided Tours](#).

vRealize Operations Cloud Retention Policy Update

- Data Retention policy configured will now also apply to Historical Data (Objects, Metrics, Properties and Reports) retained in the system after deleting Cloud Accounts. For more information, see [List of Global Settings](#).

Known Issue

- The Virtual Machine type of object is created when open source telegraf is run on an unmanaged VM, and the object relationship is incorrect. There is no work around for this issue.

Resolved Issue

- A number of product fixes are included as part of this update. See detailed list in [KB 87478](#).

What's New December 06, 2021

12

vRealize Operations Cloud is now available in:

- Japan

In addition to the following regions:

- Asia Pacific (Sydney)
- Brazil
- Canada
- Germany (Frankfurt)
- Singapore
- United Kingdom
- US West (Oregon)

What's New October 12, 2021

13

For the complete list of new features and known issues in the October 12th, 2021 update, see the vRealize Operations [release notes](#). Here are new features in the cloud offering:

One-click activation of vRealize Operations Cloud service from VMware Cloud on AWS.

- Users can now activate vRealize Operations Cloud from within the VMware Cloud on AWS UI. This eliminates the manual configuration steps needed to enable vRealize Operations Cloud for a SDDC, including the elimination of installation & configuration of vRealize Operations cloud proxy. Ongoing management of vRealize Operations cloud Proxy – the collector that previously had to be managed by the customer - will be managed by VMware. For more information, see: [Activation of vRealize Operations Cloud from VMware Cloud on AWS](#).

Product walk throughs through in-app guides

- In-app guides are multi-step guided walk throughs that are designed to help the users to complete a workflow within vRealize Operations Cloud. These guides are to help users to complete the various core workflows. The guides provide navigation to the user through the product pages providing valuable information to quickly complete the task. The in-app guides can be accessed via the guide launcher icon. Appropriate guides are shown based on the user's role. For more information, see: [In-App Guided Tours](#).

Configure data collection interval and retention period.

- Data collection interval for objects and retention period for time series data, alerts/symptoms, historical actions and configurations can now be edited. For more information, see [List of Global Settings](#).

Integrations replaces Marketplace and Repository

- vRealize Operations Cloud now offers streamlined data collection account management. You can activate or deactivate cloud solutions, other accounts, native management packs and uninstall the other management packs from the Repository tab of the [Integrations](#) page.
- Single page for all the adapter configurations:
 - Cloud Accounts
 - Other Accounts
 - Integrations
 - Repository

- Marketplace
- VMware Management Packs which are updated for vRealize Operations Cloud are:
 - SDDC Health Monitoring Solution 8.6
 - vRealize Operations Management Pack for VMware Cloud Director 8.6
 - vRealize Operations Management Pack for vRealize Orchestrator 3.2
 - vRealize Operations Management Pack for Kubernetes 6.1x
- For more information, see the **Streamlined Data Collection Account Management** section of the [vRealize Operations 8.6 Release Notes](#).

What's New August 04, 2021

14

vRealize Operations Cloud is now available in:

- United Kingdom
- Brazil

In addition to the following regions:

- Canada
- Germany (Frankfurt)
- US West (Oregon)
- Asia Pacific (Sydney)
- Singapore

What's New July 13, 2021

15

This release is a minor update for enhanced security and addressing bug fixes. For the complete list of resolved issues see the vRealize Operations Manager [release notes](#). Following is the vRealize Operation Cloud specific update.

vRealize Operations Cloud Management Pack for Managed Service Providers (MSP)

- vRealize Operations Cloud Management Pack for Managed Service Providers (MSP) helps service providers to unify their multi-site vRealize Operations Cloud deployments into a single pane-of-glass. In the context of the vRealize Operations Cloud Management Pack, multi-site means running multiple vRealize Operations Cloud instances for the tenants. The management pack will provide the ability to have unified view of the inventory across the tenants. The management pack will be metered as 1 OSI per tenant that is managed using the management pack.

What's New June 29, 2021

16

vRealize Operations Cloud is now available in:

- Singapore

In addition to the following regions:

- Canada
- Germany (Frankfurt)
- US West (Oregon)
- Asia Pacific (Sydney)

What's New April 15, 2021

17

For the complete list of new features and known issues in the April 15th, 2021 update, see the vRealize Operations Manager [release notes](#). Here are new features in the cloud offering:

Support for Open source Telegraf agent.

- For more information, see the topic, [Monitoring Application Services and Operating Systems using Open Source Telegraf](#).

Integration with vRealize Log Insight Cloud now supports 16 new NSX-T object types.

- For more information, see the topic, [Integration of vRealize Operations Cloud and vRealize Log Insight Cloud](#).

vRealize Operations Cloud Billing Dashboards

- Two new dashboards to see the billing and usage details for standalone vRealize Operations Cloud and vRealize Operations as part of vRealize Cloud Universal (vRCU)
 - vRealize Operations Cloud Billing: For vRealize Operations Cloud standalone
 - vRealize Cloud Universal Billing: For vRealize Operations bundled with vRCU
- Visualize current and historic OSIs/CPU's consumption across different object types
- Ability to see a list of all billable object types in the system.
- No need to manually add new object types as and new Management Packs are installed. The dashboards will automatically include newly added object types.
- Metrics are added under Universe object to monitor OSI count & Object count
 - Universe -> Billing Objects -> Summary -> Total Object Count
 - Universe -> Billing Objects -> Summary -> Total OSI Count
 - Universe -> Billing Objects -> Adapters -> <Adapter Type> -> Object Types -> <Object Type> -> Object Count
 - Universe -> Billing Objects -> Adapters -> <Adapter Type> -> Object Types -> <Object Type> -> OSI Count
- Users are recommended to create alerts depending upon their usage, subscription limits and appetite to pay for on-demand usage

- List of metered Objects and associated OSI counts <https://cloud.vmware.com/vrealize-operations-cloud/pricing>
- For more information, see the following topics:
 - [vRealize Operations Cloud Billing](#)
 - [vRealize Operations Cloud Universal Billing](#)

Known Limitation

- With the latest update of vRealize Operations Cloud, the cloud proxy needs to be updated to the latest as well. If there is an issue with the upgrade that results in the cloud proxy not being updated automatically, contact VMware Support.
- You can check the version of the cloud proxy by navigating to the Administration -> Management -> Cloud Proxies page. You should have version 8.4.0.17863946 or higher.

Fixed Limitation

- The following known limitation is fixed: Upgrade check for cloud proxy is disabled. For workaround, see [KB 82471](#).

What's New February 12, 2021

18

vRealize Operations Cloud is now available in:

- Canada

In addition to the following regions:

- Germany (Frankfurt)
- US West (Oregon)
- Asia Pacific (Sydney)

You have the option to request for the vRealize Operations Cloud service in one of the supported regions, to comply with your organization's data sovereignty and data separation requirements. This is a one-time choice that you can make before starting to use vRealize Operations Cloud.

What's New February 04, 2021

19

For the complete list of new features and known issues in the February 04, 2021 update, see the vRealize Operations Manager [release notes](#). Here are new features in the cloud offering:

In-product Feedback:

- Provide feedback using forms available within the vRealize Operations Cloud service portal.
- Feedback forms are completely optional and you can unsubscribe at any time. Once unsubscribed, you won't see those forms again, and you won't be able to subscribe again.

vRealize Operations Management Pack for Horizon:

- Manage and monitor the health of your Horizon environment using vRealize Operations Management Pack for Horizon, which is now available in the in-product Marketplace.
- vRealize Operation Cloud billing for Horizon Management Pack
 - 1 OSI = 4 VDI VMs
 - 1 OSI = 4 RDS Hosts
 - 1 OSI = 1 Connection sever

vRealize Operations Billing Usage Dashboard:

- The vRealize Operations Billing Usage dashboard is now available. It displays a list of objects that are being metered towards the vRealize Operations Cloud license. If you want to monitor new object types (from installing management packs), you can create a new dashboard by doing the following:
 - a Clone the dashboard
 - b Edit the Object List widget
 - c Add object types by choosing Output Filter > Advanced > Object Types
- Note that nested ESXi Hosts are excluded from billing. For example, vSAN Witness Hosts

Known Limitation

- Upgrade check for cloud proxy is disabled. For workaround, see [KB 82471](#).

- vRealize Operations Cloud supports vRealize Orchestrator Management Pack where the vCenter and vRealize Orchestrator are still on-prem, but the workflows have certain limitations. vRealize Orchestrator Management Pack Out-Of-the-Box workflow *Apply Host Security Configuration Rules* and the dependent workflows such as *Configure Host Security Configuration Data* are not supported. For workaround, see [KB 82804](#).

Known Issue

- You cannot raise a support request from the vRealize Operations Cloud support panel, because the link does not open.

Workaround: Open a support request from the VMware Cloud services support panel, or contact GSS via the chat feature in the vRealize Operations Cloud support panel. For more information, see the [How Do I Get Support](#) topic.

What's New November 17, 2020

20

vRealize Operations Cloud is now available in:

- Germany (Frankfurt)

In addition to the following regions:

- US West (Oregon)
- Asia Pacific (Sydney)

You have the option to request for the vRealize Operations Cloud service in one of the supported regions, to comply with your organization's data sovereignty and data separation requirements. This is a one-time choice that you can make before starting to use vRealize Operations Cloud.

Note: vRealize AI Cloud is not yet available in the new regions.

What's New October 6, 2020

21

For the complete list of new features and known issues in the October 6, 2020 update, see the vRealize Operations Manager [release notes](#). Here are new features in the cloud offering:

- vRealize Operations Cloud Specific:
 - Enhanced service availability providing 99.9% SLA, maintenance period for upgrades reduced to near-zero downtime.
 - Simplified migration of custom content from vRealize Operations on-prem to vRealize Operations Cloud. Link to documentation: [Managing Content](#).
 - Improved user synchronization with VMware Cloud Services Platform, allowing users to import enterprise and customer user groups into vRealize Operations Cloud.
 - VMware hosted email support for alert notification and reports. Link to documentation: [VMware Hosted Email plug-in for Outbound Settings](#).
 - Support for sending SNMP Trap notifications. Link to documentation: [Add an SNMP Trap Plug-In for vRealize Operations Cloud Outbound Alerts](#).
 - In-product marketplace for vRealize Operations Cloud extensibility using Management Pack for easy access and installation.
 - vRealize Operations cloud proxy offers CLI commands and can now be monitored as an object from vRealize Operations Cloud. Link to documentation: [Using the Cloud Proxy Command-Line Interface on Cloud](#).
 - Localization of in-product support panel. View help text and documentation link in your own preferred language.
- Exclusive capabilities in vRealize Operations Cloud:
 - Near real-time monitoring - 20 seconds - for vSphere Clouds for better observability. Link to documentation: [Configure a vCenter Server Cloud Account in vRealize Operations Cloud](#).
 - Application Performance Monitoring tool integration providing support for AppDynamics, Datadog, Dynatrace, and New Relic. Link to documentation: [Application Integration](#).
 - Enhanced vRealize Log Insight Cloud Integration including log-metric correlation and enhanced dashboards.

- Enhanced Skyline Integration expanding proactive issue avoidance, troubleshooting and integrated workflows with capabilities such as launching Troubleshooting Workbench from Skyline Findings and in-context launch of Objects Details from Objects in Skyline. Link to documentation: [VMware vRealize Operations Management Pack for VMware Skyline](#).
- Exclusive with vRealize Cloud Universal:
 - Choice of Advanced or Enterprise edition of vRealize Operations Cloud. Details here: [vRealize Cloud Universal](#).
 - vRealize Cloud Federated Analytics for managing multiple vRealize Operations Cloud and vRealize Operations OnPrem instances. Link to documentation: [vRealize Cloud Federation Adapter](#).
 - vRealize AI Cloud for self-tuning and continuous optimization of vSAN clusters.

Known Limitations

- Cloud Proxy
 - With the latest update of vRealize Operations Cloud, the cloud proxy needs to be updated to the latest as well. If there is an issue with the upgrade that results in the Cloud Proxy not being updated automatically, contact VMware Support.
 - You can check the version of the cloud proxy by navigating to the Administration -> Management -> Cloud Proxies page. You should have version 8.2.0.16992050 or higher.
- Cloud Federation Adapter
 - Manually stop and start the adapter instances to get the latest changes and start the collection of the newly added metrics.
 - Due to the changes in the Metrics Configuration file, after upgrading the Cloud Federation Adapter, manually stop and start the Cloud Federation Adapter instances to get the latest changes and start the collection of the newly added metrics.
- Integration of vRealize Operations Cloud and vRealize Log Insight Cloud currently not supported for VMware Cloud on AWS (VMC).

Known Issues

- Attempting to activate or deactivate an Application Monitoring agent in a Windows endpoint fails after a content upgrade, if the Windows endpoint Application Monitoring agent has already been bootstrapped in an earlier version.

In the Manage Agents tab, plugins fail to activate/deactivate in vRealize Operations Cloud

Workaround: Contact VMware Technical Support

What's New August 11, 2020

22

vRealize Operations Cloud is available in the following two AWS regions:

- US West (Oregon)
- Asia Pacific (Sydney)

You have the option to request for the vRealize Operations Cloud service in one of the two supported regions, to comply with your organization's data sovereignty and data separation requirements. This is a one-time choice that you can make before starting to use vRealize Operations Cloud.

What's New July 09, 2020

23

- A chat feature is available in the support panel. You can contact VMware support engineers and customer support representatives using the chat feature.

Resolved Issues

- vRealize Automation Cloud Integration is now available. For more information, see [vRealize Automation 8.X](#) in the *VMware vRealize Operations Cloud Configuration Guide*.
- For an additional list of resolved issues, see the vRealize Operations Manager [release notes](#).

Known Issues

- After you uninstall a telegraf agent, the Operation Status displays, "Uninstall in Progress" instead of "Uninstall Success" in the Administration > Manage Agents screen. As a workaround, uninstall the agent once again. For more information, see [Uninstall an Agent](#) in the *VMware vRealize Operations Cloud Configuration Guide*.

What's New June 02, 2020

24

Resolved Issues

- Cloud proxy is affected by Authentication Bypass and Directory Traversal vulnerabilities. The Common Vulnerabilities and Exposures project (cve.mitre.org) has assigned the identifiers [CVE-2020-11651](#) (Authentication Bypass) and [CVE-2020-11652](#) (Directory Traversal) to these issues. This is now addressed.
- An issue with Service Discovery, which was handling data collection status for deleted and powered-off VMs incorrectly, is resolved. Learn about Service Discovery by clicking this [link](#).

What's New April 14, 2020

25

For the complete list of new features and known issues in the April 14 2020 release, see the vRealize Operations Manager [release notes](#). Here are new features in the cloud offering:

vRealize Operations Cloud Infrastructure

- Connect and manage on-premise end point such as vCenter through locally installed Cloud Proxies.
 - Install cloud proxy into VMware Cloud if vCenter does not have a public IP address.
 - Cloud proxy supports Network proxy (HTTP/HTTPS proxy) to connect to vRealize Operations Cloud.
 - Cloud proxy instances can be combined into Collector Groups for high availability.
 - Automatic upgrade of cloud proxy instances when vRealize Operations Cloud is updated.
- Cloud proxy to manage the application monitoring agents:
 - Manage the life cycle of application monitoring telegraf agents directly from Administration → Inventory → Manage Agents.
 - Start managing applications and configuring agents via Home → Manage Applications → Monitor Applications.
- Ability to connect to on-premise servers, through cloud proxy, for the following outbound plugins:
 - Standard Email plugin
 - Rest notification plugin

Cloud Management Platform

- **Integration of vRealize Operations Cloud with vRealize Log Insight Cloud**
 - Integration is automatically configured when both these services are running in a single Cloud Services organization.
 - View logs in context of the selected object in vRealize Operations Cloud.
 - Launch into the full capabilities of vRealize Log Insight Cloud at the click of a button.

Known Limitations

- You cannot install any non-native Management Pack. Contact VMware to request installation of non-native management packs.
- Dashboard sharing using URL, Email and Embed options is not available.
- Custom compliance benchmark is not supported.
- OPSCLI is not supported. Use REST APIs instead.
- Following outbound plugins are not supported:
 - SNMP Trap Plugin
 - Log File Plugin
 - Smarts SAM Notification Plugin
 - Network Share Plugin
- You cannot change the collector for a vCenter adapter. As a workaround, delete the vCenter adapter using suite-api.
- You must specify a working NTP server when you deploy the cloud proxy OVF. Alternatively, ensure that the ESXi on which the cloud proxy runs has an NTP server specified.
- Day2 Workload Optimization for vRealize Automation Cloud managed VMs is not fully functional in vRealize Operations Cloud. The VMs managed by vRealize Automation Cloud will not be relocated when executing the Optimize Now action from the Workload Optimization plan generated by vRealize Operations Cloud. The status in the UI will show failure, but this does not have any negative impact. Workload Optimization for other VMs that are not managed by vRealize Automation Cloud is not impacted.

Known Issues

- vRealize Automation Cloud Integration is unavailable.
- Organization member role doesn't work with VMC cloud account configuration. The workaround is to use the organization owner role to generate the API token for VMC cloud account credentials.
- If you have more than one VMware Cloud services org, and you receive a resource alert notification, clicking the notification takes you the default org and not the org from which the notification originated. After you click the resource alert notification, you see a blank page because the notification takes you to the default org.
- The API endpoint <https://vrops-alerts.getsandbox.com/alerts> responds with HTTP 400 if you add a trailing slash to the URL (<https://vrops-alerts.getsandbox.com/alerts/>). Do not use a trailing slash when you test the connection.

- The links displayed in the widgets of some AWS dashboards fail, because of incorrect URL mapping. As a workaround, add the correct prefix to the hard coded redirect path *ui/index.action#/dashboards/dashboard/1803b3c9-8556-4469-b099-6a31eb789a3e*. The prefix depends on the organization which hosts your instance of vRealize Operations Cloud. The following widgets are affected:
 - AWS-Inventory Dashboard - Compute widget with hyperlink for EC2 resource
 - Storage Dashboard - EBS Volumes widget with hyper link on region(s)
 - Compute:EC2 Dashboard - EC2 widget where hyperlink is on regions