# VCF Health and Diagnostics



## **Importance**

With VCF Operations diagnostics, you can quickly diagnose and address issues to minimize their impact and improve operational efficiency, security, and reliability of your VCF platform.

You can discover and remediate known issues, and monitor the operational state of the private cloud infrastructure in VCF Operations Diagnostics.







## Learner Objectives

- Outline the role of VCF Health and Diagnostics
- Describe the Diagnostic Findings feature
- Describe the VCF Health feature
- Monitor the operational state of VCF Instances
- Explain Troubleshooting Workbench
- Enable support teams with full context using Log Assist



# VCF Health and Diagnostics

VCF Health and Diagnostics provides an In-Product experience to discover, troubleshoot, and remediate issues.



- Curated Findings from VCF Operations Diagnostics
- Remediate based on curated recommendations



- Discover if features work as expected
- Remediate based on action recommendations



 Upload log bundles with full context for faster support engagement

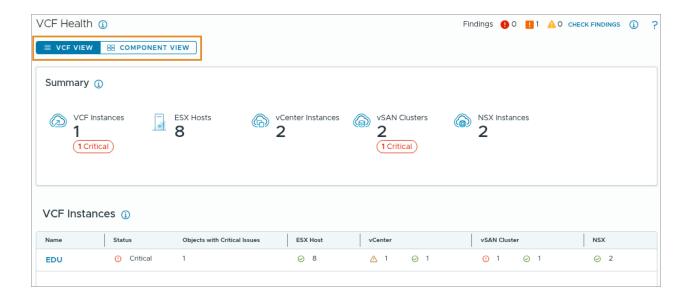


### About VCF Health

VCF Health is effectively a consolidated view of your VCF deployment where you can proactively monitor the operational state of your VCF stack.

The structure of VCF Health enables you to navigate the hierarchy from a management domain to its workload domains, vCenter and NSX instances, vSAN clusters, and ESX hosts.

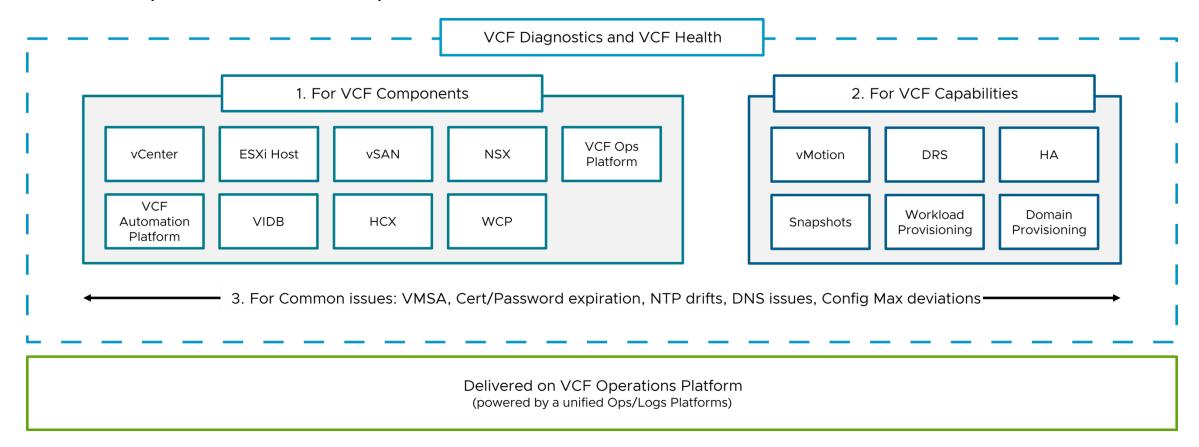
The VCF Health screens cover the top support ticket drivers, such as expiration of certificates, to avoid support requests, eliminate downtime, and increase resilience.





## Unified Health and Diagnostics for VCF

Diagnostics for VMware Cloud Foundation is designed to help you analyze and troubleshoot the most common capabilities of VCF components.





## Setting Up and Maintaining VCF Operations diagnostics

You complete VCF Operations diagnostics for your VCF environment by installing and configuring VCF Operations for logs and setting up integration between components.

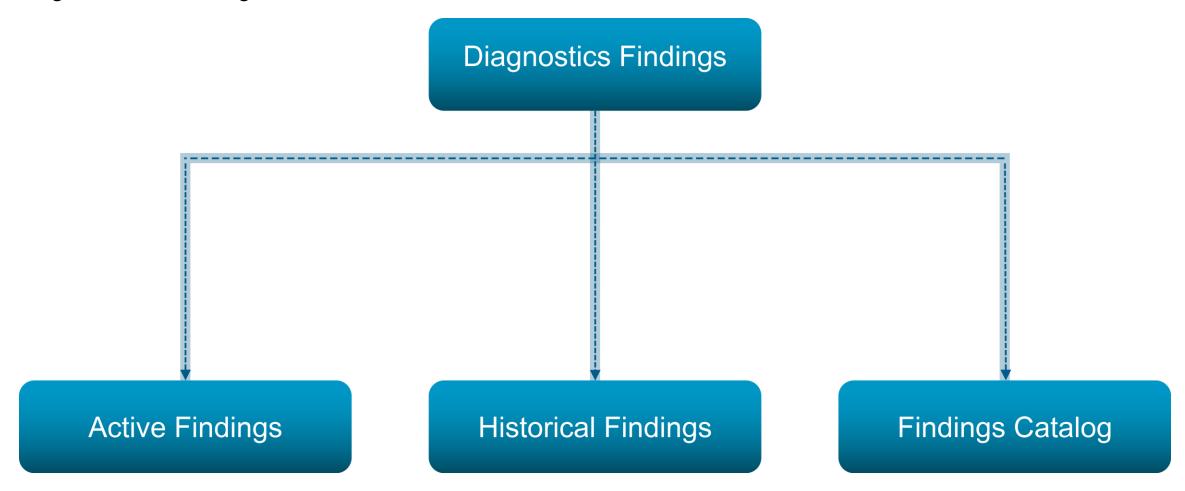
VCF Health works solely on systems deployed by using the VCF Installer and requires a VCF license:

- The Diagnostic Findings capability has no license dependency and works on both VMware vSphere Foundation and VCF.
- You can apply only the diagnostic capabilities relevant to your setup.



## **About Diagnostic Findings**

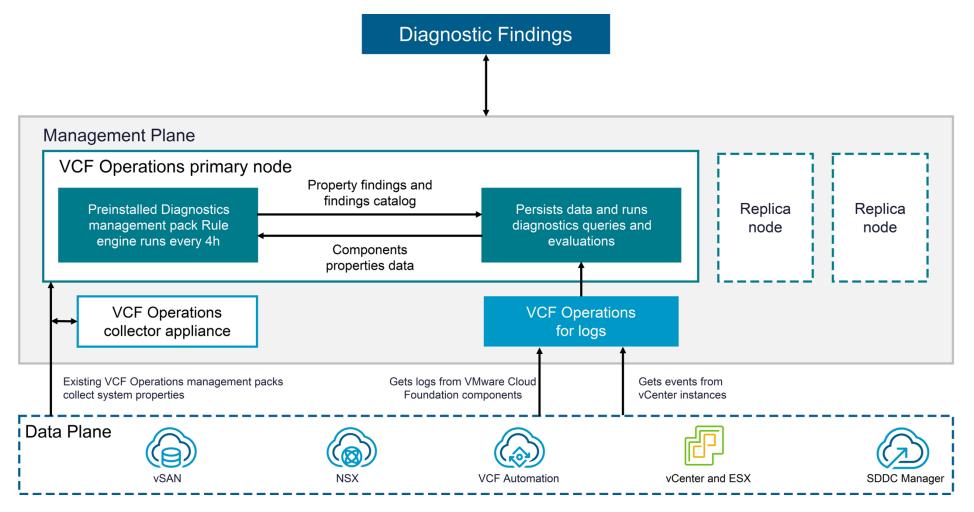
Diagnostic Findings consolidates a list of log and property-based findings with specific resolution, also called diagnostic rules or signatures.





## Architecture Diagram and Data Flow of Diagnostic Findings

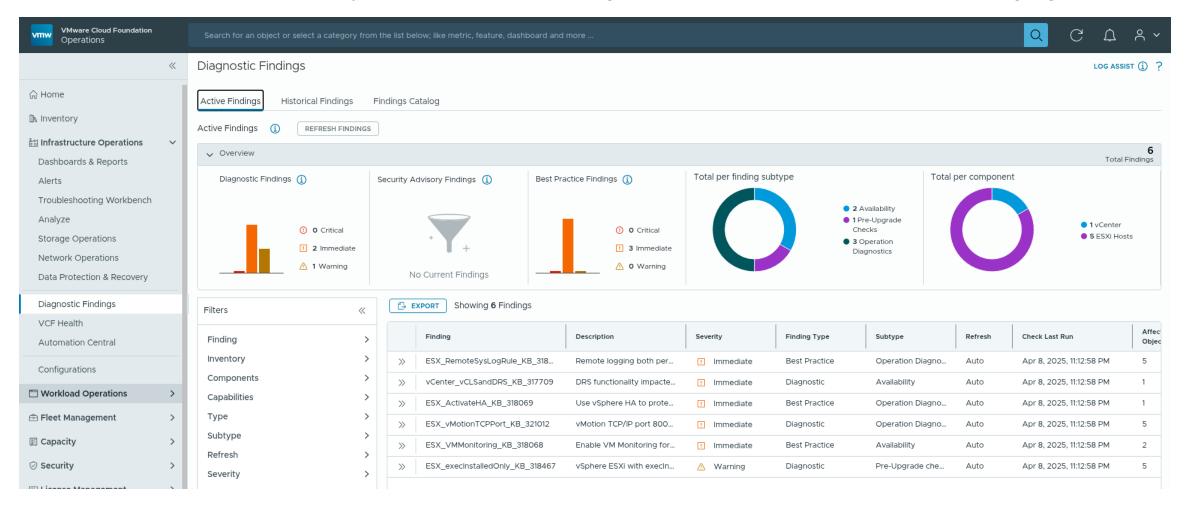
Diagnostics Findings collects data from all VMware Cloud Foundation platform components such as properties and logs that help you identify existing or potential issues in your environment.





## **Active Findings**

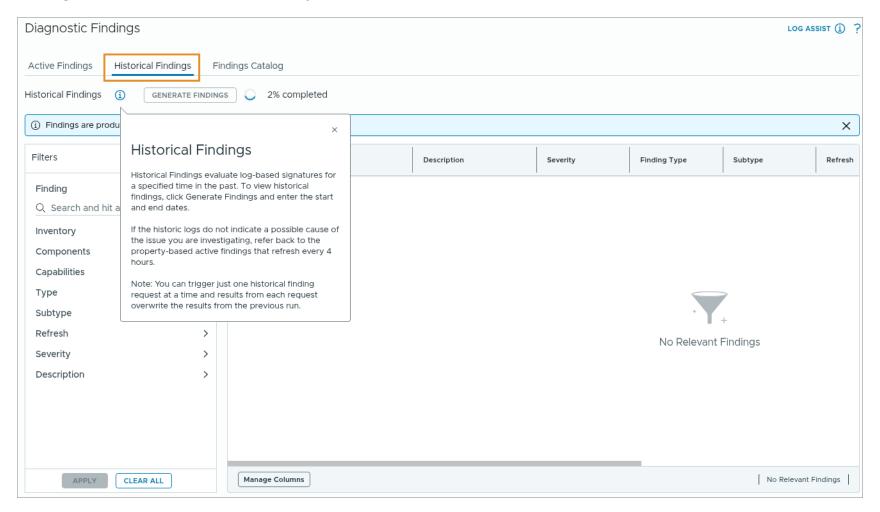
Checks against property-based signatures run every 4 hours, scanning your VCF environment. Within 24 hours, whenever a condition in your setup matches a signature, it appears in the Active Findings grid.





# **Historical Findings**

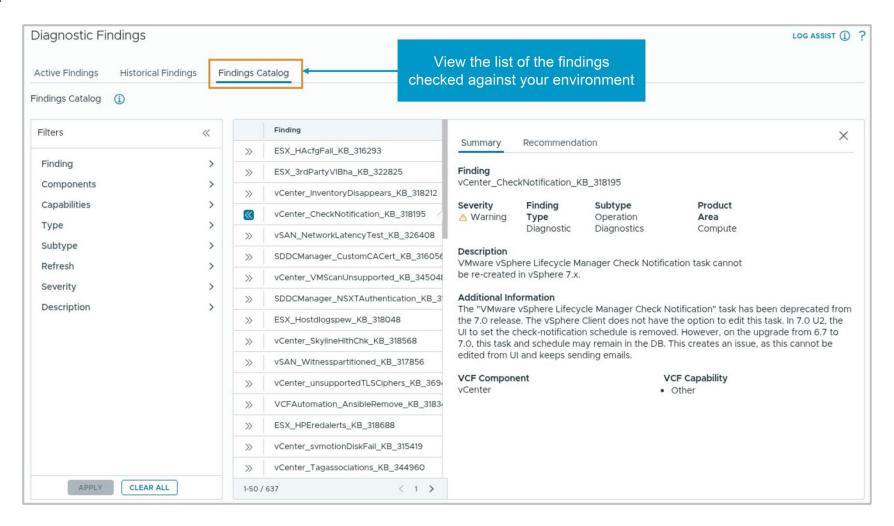
Diagnostic Findings collects data from all VCF components, such as events, properties, and logs, which help you identify existing or potential issues in your environment.





## **Findings Catalog**

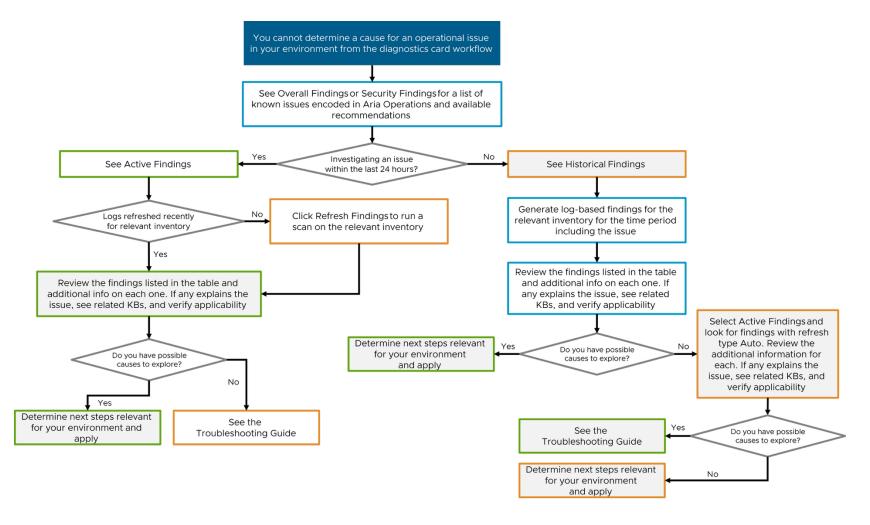
Findings Catalog lists potential issues that can impact your environment. Each finding provides guidance for remediation.





## Diagnostic Findings Self-Help Flow

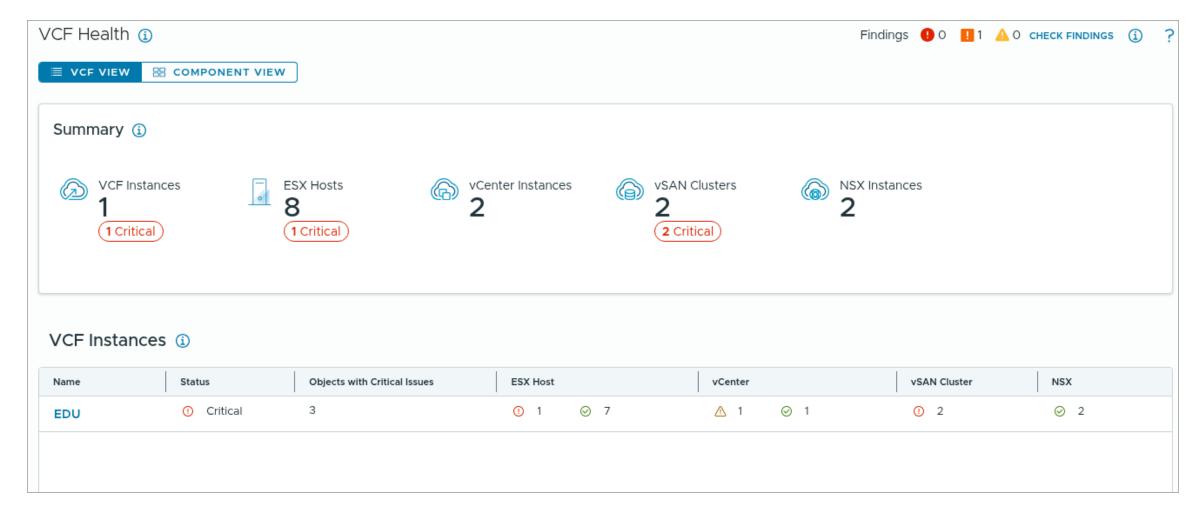
The idea behind a VCF Health flow is to surface issues that require immediate attention in a simple and structured manner in the customer's environment.





## Monitoring the Operational State

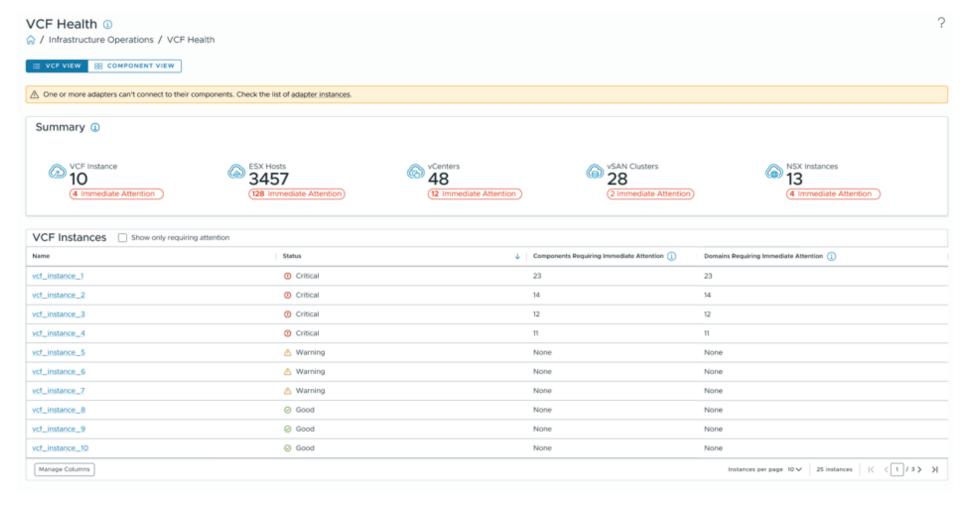
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# Monitoring VCF Health Status

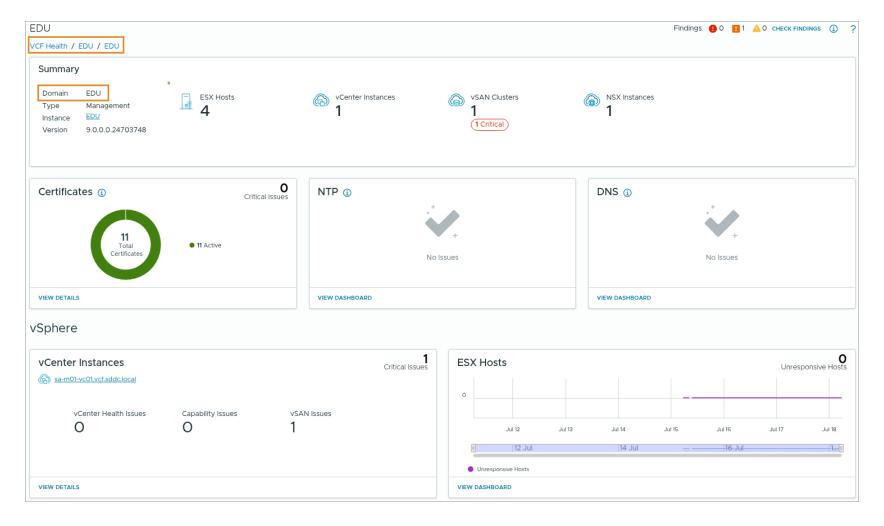
You can view the overall health status of the VCF deployment and navigate to individual components to get more detailed information.





## **VCF** Instance Health

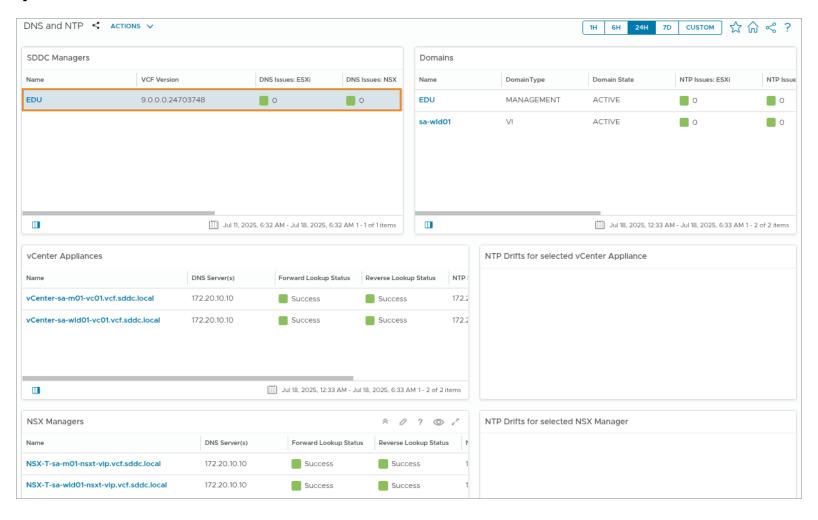
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# NTP and DNS Configuration Dashboard

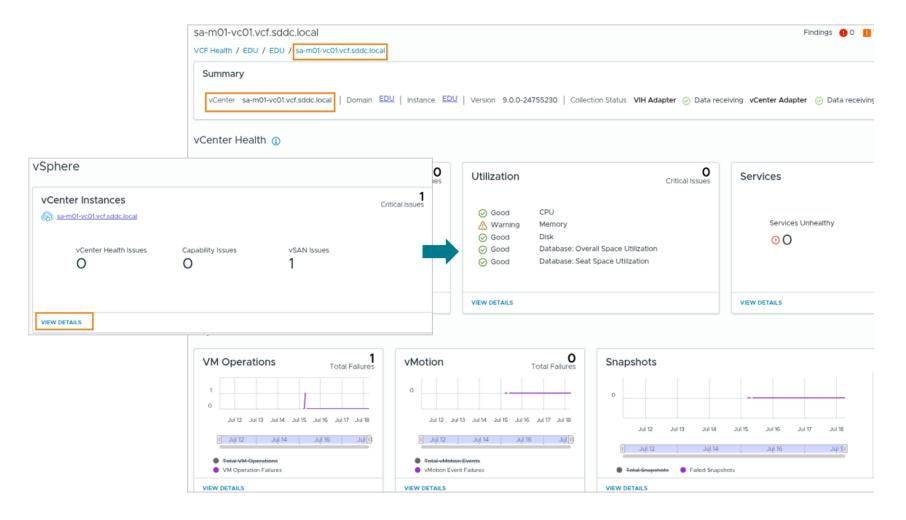
With Diagnostics, you can see if NTP is not configured or is out of sync, as well as the DNS lookup issues for each object in your environment.





### About the vCenters Pane

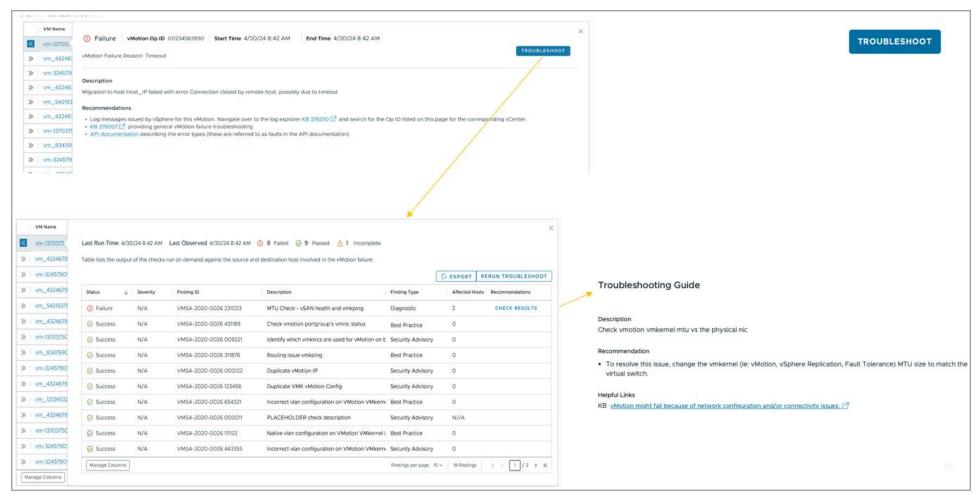
The vCenters widget displays the vCenter Health and a few capabilities such as Connectivity, Utilization, and Services.





## vSphere vMotion

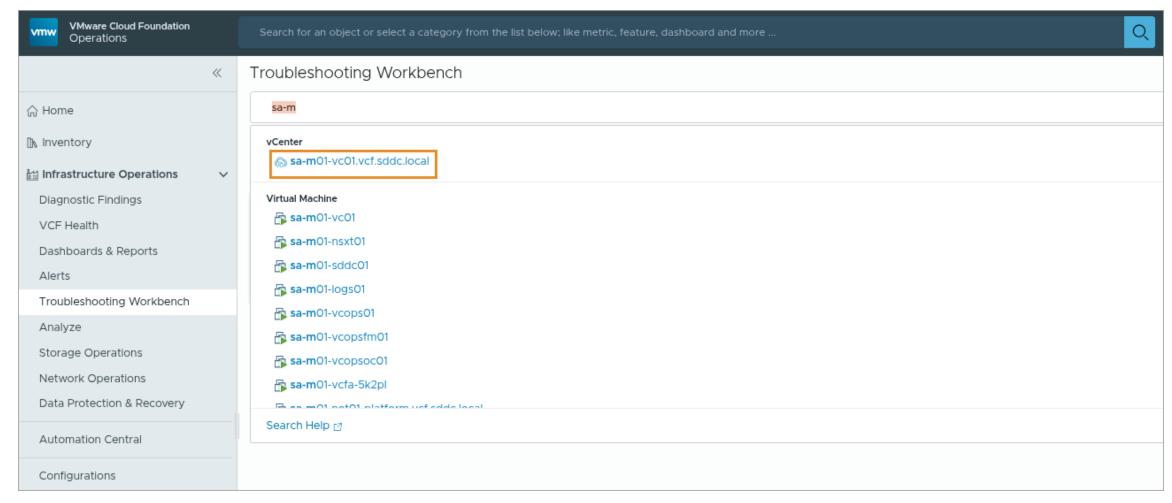
The screenshot shows how the vMotion Event List helps troubleshoot issues faster.





## Troubleshooting Workbench

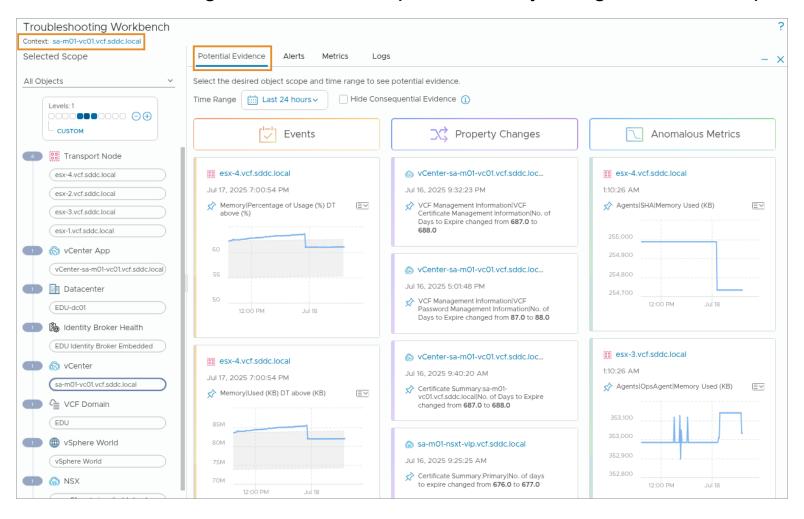
The **Troubleshooting Workbench** home page includes active troubleshooting sessions and recent searches. The active troubleshooting sessions do not persist after you log out of VCF Operations.





## Troubleshooting Workbench: Reviewing Potential Evidence

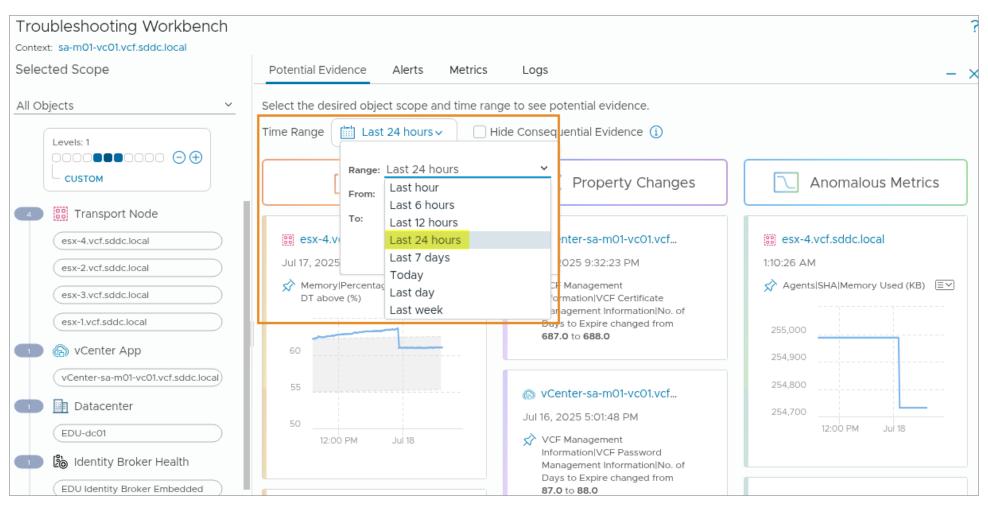
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## Troubleshooting Workbench: Changing the Potential Evidence

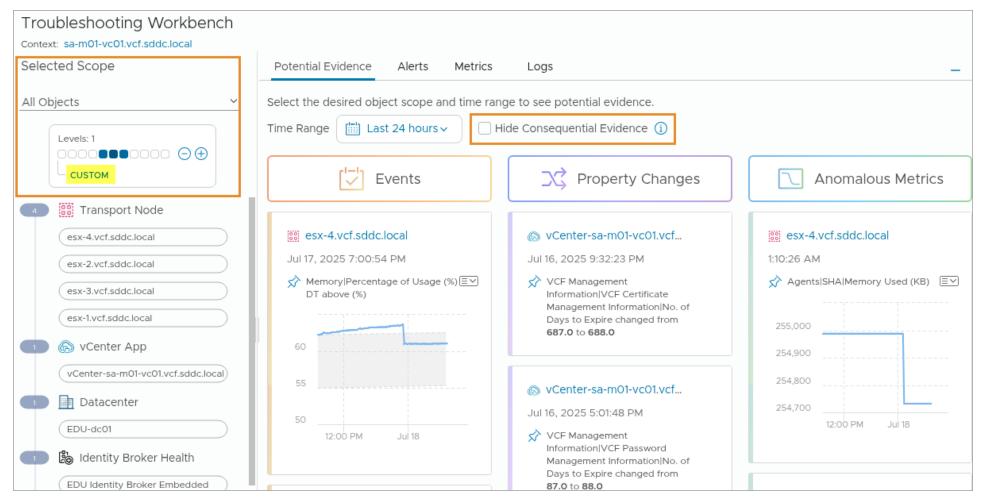
By adjusting the time range, you can uncover additional evidence that helps your troubleshooting efforts.





## Troubleshooting Workbench: Changing the Scope

You can select only the object that you are investigating or include several upstream and downstream relationships by increasing the scope.





## **About Log Assist**

VCF Operations Log Assist provides an efficient and convenient method to attach diagnostic bundles to a support request.

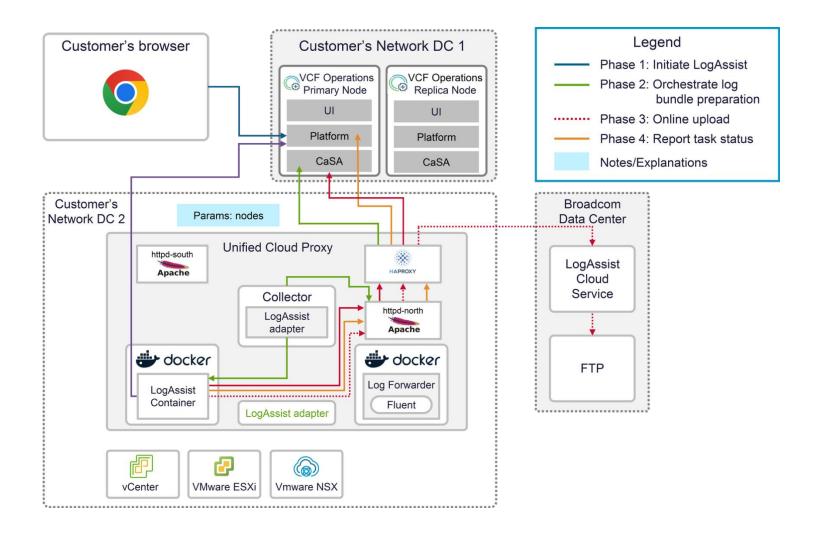
You perform the following tasks with VCF Operations Log Assist:

- Generate log bundles for vSphere components.
- Attach diagnostic bundles to a service request and upload to the Broadcom Support Portal.
- Monitor log transfers and review previous log uploads.



## Log Assist Architecture

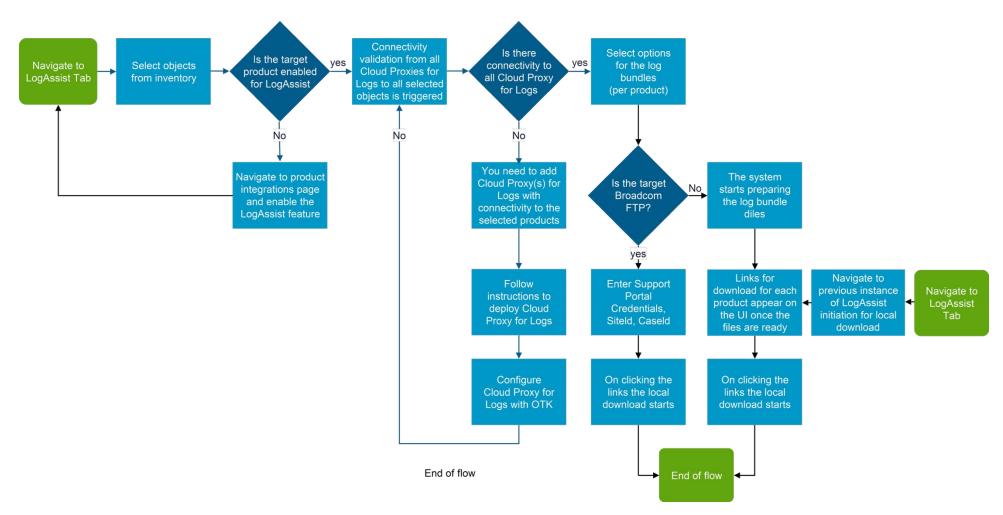
You can generate a log bundle for any selected inventory object, and link and upload it to your support case.





## Log Assist Flow

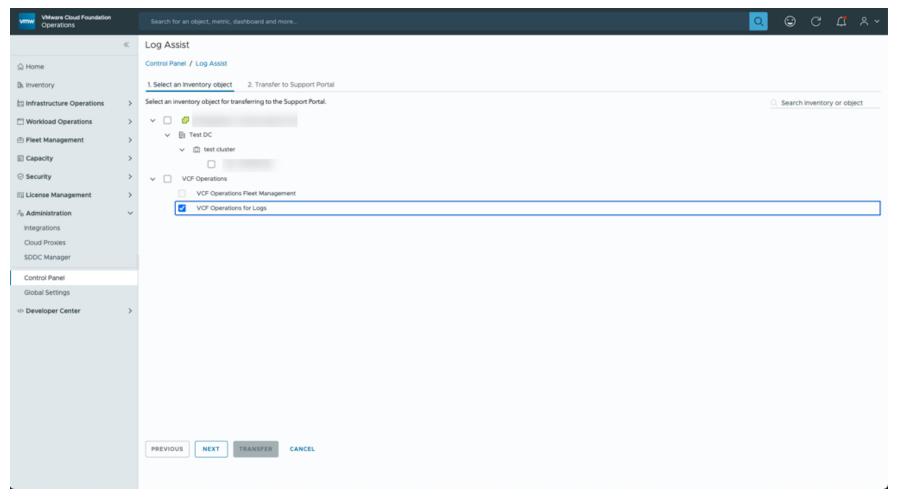
You can generate a log bundle for any selected inventory object, and link and upload it to your support case.





## Log Assist Diagnostic Bundle Transfer

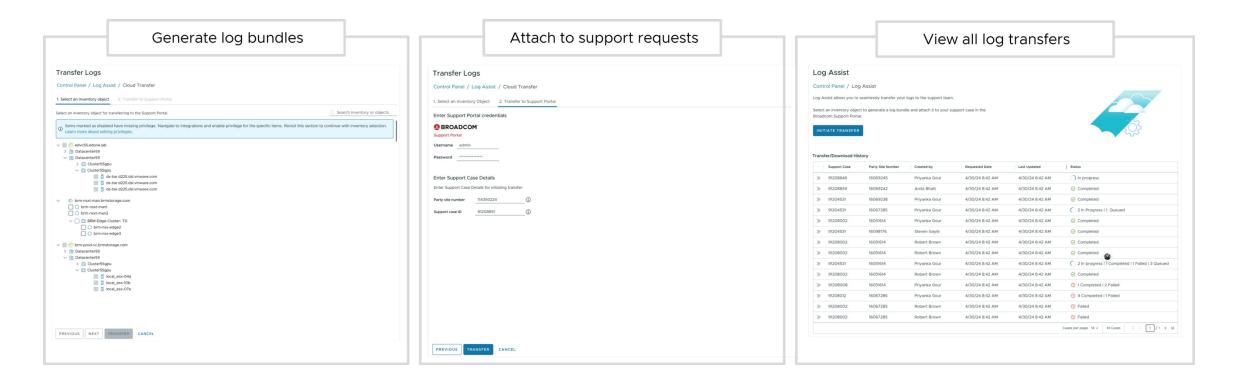
Under Log Assist in the Operations console, select the individual component log files to upload to the Broadcom Support Portal.





## Contacting Broadcom Support with Full Context

You can generate a log bundle for any selected inventory object, and link and upload it to your support case.





## Lab: Monitoring VCF Health and Diagnostics

Use VCF Health and Diagnostics to monitor the environment:

- 1. Navigate the VCF Health Dashboard
- 2. View the NTP and DNS Widgets
- 3. View the vSphere Widgets
- 4. Review the Diagnostic Findings



## Review Learner Objectives

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