

# VMware Skyline

Turn Moments of Panic into Moments  
to Shine with Proactive Support

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12/3/19

# Skyline: Benefits to Customers

## Proactive Support from VMware

### Issue Avoidance

- Proactively identify potential issues based upon environment-specific configuration, details and usage
- Resolve issues before they occur, improving environment reliability and stability
- Currently supports vSphere, NSX-v, vSAN, Horizon, vRealize Operations Manager

### Faster Time to Resolution

- Environment-specific, data-driven analytics accelerate problem resolution

### Personalized Recommendations

- Resolution is specific to your environment

### No Additional Cost

- Production Support and Premier Services customers receive additional value within current Support Subscription

Available to Production Support & Premier Services Customers Globally

Available through Solution Providers & Managed Services Partners

# How Are Customers Using Skyline Today?

*Skyline has been a force multiplier for us. It helps us have a smaller, but mighty team. This gives our stakeholders and customers a better experience when we can respond faster and even avert issues before they surface.*



*Log Assist is a big improvement over the manual upload process and helps speed time to resolution. It frees our time so we can focus on critical tasks.*



*The Skyline interface is clean and easy to use. Log Assist is a big time-saver, eliminating the need to manually upload log bundles to Tech Support. It enables us to create a stable infrastructure for supporting city residents.*



# How Does Skyline Work?

## Comprehensive Analysis Aligned with Best Practices

### Proactive Support Technology



- Simple installation and configuration
- Automated, secure collection of product usage data

- Environment visibility to understand product interactions
- Capture patterns, events, trends, configuration, design-compliance, cross-product

- Comprehensive analysis of environment details and product usage
- Alignment with best practices and design considerations

- Proactive Findings & Recommendations are provided within dashboard & Operational Summary Report
- For Premier Support customers, Support Account Manager/Engineer provides additional advice and recommendations to improve reliability and stability



# Sources of Skyline Issue Identification

- ❑ VMware Knowledge base
  - ❑ Trending issues seen by customers
  - ❑ Critical bugs found by VMware Engineering
  - ❑ Nominated KBs by TSEs and Customers
- ❑ VMware Security Advisories (VMSAs)
- ❑ VMware Validated Design (VVD)
- ❑ VMware Health Analyzer (VHA)
- ❑ VMware Configuration Maximums
- ❑ VMware Hardware Compatibility Guides
- ❑ VMware Interoperability Matrix
- ❑ VMware Best Practices



Detectable by VMware Skyline™



# Skyline Advisor



Proactively view potential issues



Reduced effort through risk avoidance and mitigation



Personalized recommendations for your datacenter

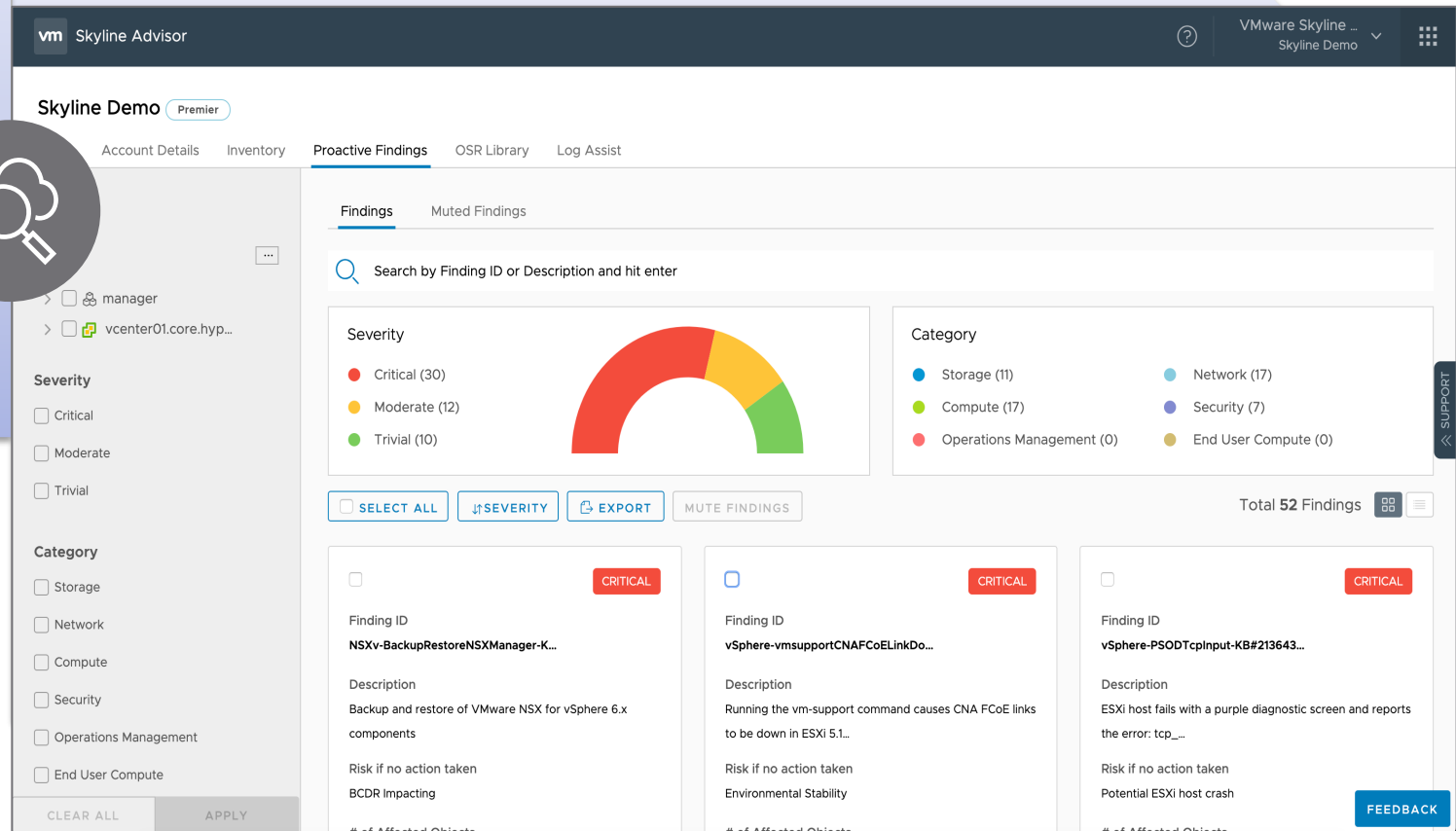


View findings and recommendations  
Inventory filter for objects being analyzed



## Key Features:

- Self-Service Access
- Ever-evolving analytics; reporting **potential problems before they occur**
- **Prescriptive and predictive guidance** based upon best practices

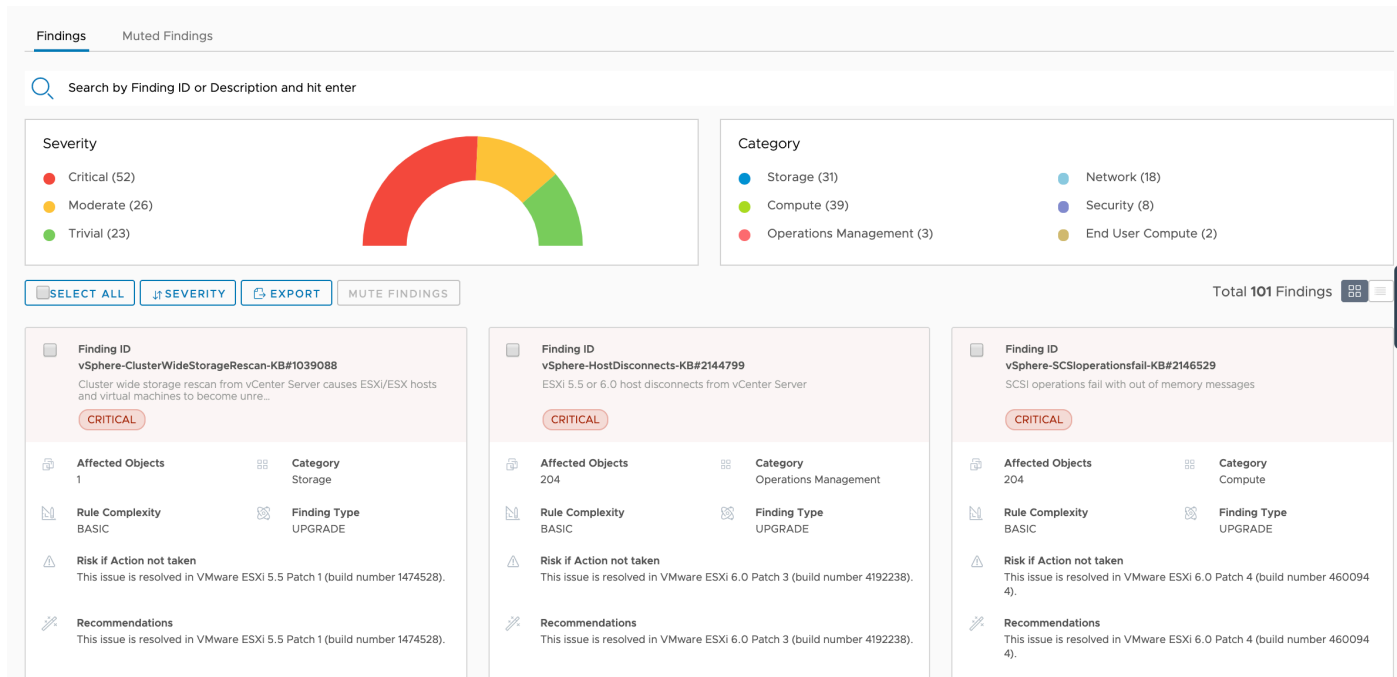


# Skyline Advisor

## Details

### Account Details

- Registered Collectors
- Total number of servers, hosts, & VMs analyzed by Skyline
- Last analysis activity



### Inventory

- View high-level inventory details for vSphere, NSX-v, vSAN, vRealize Operations and Horizon 7
- VMware Technical Support is better enabled to assist you when working together to resolve an issue

### Proactive Findings

- Personalized recommendations for each potential issue
- Filters for potential issues based on a specific criteria

### Log Assist

- Upload a support log bundle in as little 5 clicks or 1-2 minutes.
- With customer permission, automatically uploads log file bundles to Tech Support

# Skyline Advisor

## Recently Released Features

### Proactive Support for:

- Horizon v7.0 and above
- vRealize Operations Manager v6.6, 6.7, 7.0

### Ability to Mute Findings and Objects

- Hide specific inventory objects and Proactive Findings

### Inventory View

- Consolidated list of infrastructure and deployment identification for Dell VxRail and VMware Validated Designs

The top screenshot displays the 'Inventory' view of the VMware Skyline Advisor. It features a sidebar with filters for 'Inventories' (Hosts and Cluster Inventory, Networking Inventory, Storage Inventory, NSXv Inventory), 'Filters' (VVD, VxRail), and 'Add-Ons' (NSX, vSAN). The main area shows a table of inventory items with columns for 'Inventory', 'Version', 'Build', 'Add-Ons', and 'Solution Tags'. The table lists several vCenter and ESXi hosts, including 'vcenter01.core.hypervisor.com' and 'esx01-s1.core.hypervisor.com'.

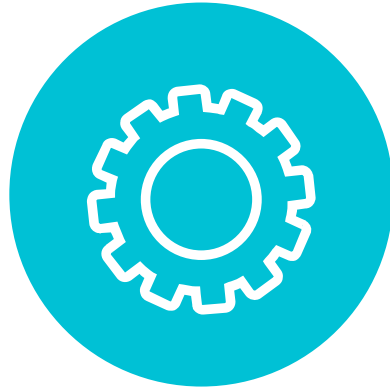
The bottom screenshot displays the 'Proactive Findings' view. It features a sidebar with filters for 'Objects' (manager, vcenter01.core.hyp...), 'Severity' (Critical, Moderate, Trivial), and 'Category' (Storage, Network, Compute, Security, Operations Management, End User Compute). The main area shows a 'Muted Findings' section with a search bar and a severity gauge. The gauge shows a red arc, indicating a high severity level. Below the gauge, there are two findings listed, both marked as 'CRITICAL'. The first finding is 'vSphere-HostDisconnects-KB#214...' and the second is 'vSphere-SCSIoperationsfail-KB#...'. Each finding includes a description, a risk if no action is taken, and an environmental stability rating.

# VMware Skyline Log Assist

Moving Customers Toward an Effortless Support Experience



Eliminates  
major  
customer pain  
point



With customer  
permission,  
automatically  
uploads log  
files to Tech  
Support



Most  
requested  
support  
feature



Reduce time to  
resolution by  
hours or days



New feature  
included with  
Skyline as  
value-add

# Skyline Log Assist

## How it Works

- Customer initiates upload process or approves TSE request
- Select Auto Approve to automatically approve all upload requests

Initiate Logs TransferLog Transfer RequestsLog Library

Step 1 of 2 - Select Inventory

Inventory

Select inventory to initiate log transfer from below topology view

Inventory

☐

VMware vCenter Server 6.0.0 b

☐

Cairo Datacenter

☐

CAI Cluster

☒

esx03-s1.core.hypervisor.com

☐

esx01-s1.core.hypervisor.com

☐

esx02-s1.core.hypervisor.com

☐

manager

Initiate Logs TransferLog Transfer RequestsLog Library

Step 2 of 2 - Service Request

Support Request

Select a Support request from the list

Search by SR number or case owner or description and hit enter

| SR # ↓                                       | Description                     | Date Created             |
|--|---------------------------------|--------------------------|
| <input checked="" type="radio"/> 18692035707 | UAT SR creation issue           | 2018-07-03T06:56:03.000Z |
| <input type="radio"/> 18692159507            | test                            | 2018-07-03T12:57:19.000Z |
| <input type="radio"/> 18696745409            | testing overriding logic in UAT | 2018-09-05T08:43:11.000Z |
| <input type="radio"/> 18696745509            | testing overriding logic in UAT | 2018-09-05T08:51:17.000Z |
| <input type="radio"/> 18697079909            | general usage issue             | 2018-09-19T09:41:01.000Z |
| <input type="radio"/> 18697108609            | test                            | 2018-09-21T04:39:37.000Z |
| <input type="radio"/> 18697108709            | re                              | 2018-09-21T04:42:58.000Z |
| <input type="radio"/> 18697511510            | test                            | 2018-10-10T13:31:58.000Z |
| <input type="radio"/> 18683978105            | test one 114392118 - VMware     | 2018-05-09T18:01:16.000Z |
| <input type="radio"/> 18684675405            | Testing                         | 2018-05-22T09:37:31.000Z |

LOAD MORE

# Proactive Support with VMware Skyline

## Features and Benefits Comparison

| FEATURES  | PRODUCTION SUPPORT | PREMIER SERVICES |
|---|--------------------|------------------|
| Basic Findings and Recommendations                    | ✓                  | ✓                |
| Skyline Community                                     | ✓                  | ✓                |
| Skyline Advisor                                       | ✓                  | ✓                |
| Skyline Log Assist                                    | ✓                  | ✓                |
| All Supported Products <sup>1</sup>                   | ✓                  | ✓                |
| Export Affected Objects of Proactive Findings         | ✓                  | ✓                |
| Advanced Findings and Recommendations                 |                    | ✓                |
| Scheduled / Custom Operational Summary Reports (OSRs) |                    | ✓                |
| Additional Benefits of Premier Services <sup>2</sup>  |                    | ✓                |

<sup>1</sup> Currently Supported products include VMware vSphere, VMware NSX-v, VMware vSAN, Horizon and vRealize Operations Manager.

<sup>2</sup> Additional benefits include a designated support team, direct access to senior-level technical support engineers, assistance with multi-vendor troubleshooting and onsite support services (MCS, HCS and CGS only).



# Privacy and Security

## Data Collection Information and Examples

- Skyline uses secure protocols to transmit data over HTTPS. See the Skyline Collector Install Guide for details.
- The Skyline telemetry info is encrypted via TLS 1.2, using the cipher suite TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA256.

### Examples of what Skyline collects

- vCenter, NSX Manager, NSX Controller, vSAN, Horizon & vROps inventory and state info
- Object names and IP addresses
- Object configuration details

### Examples of what Skyline does NOT collect

- In-guest workload details / content
- ACL or DFW rules
- Personally Identifiable Information (PII)
  - Usernames / Email Addresses

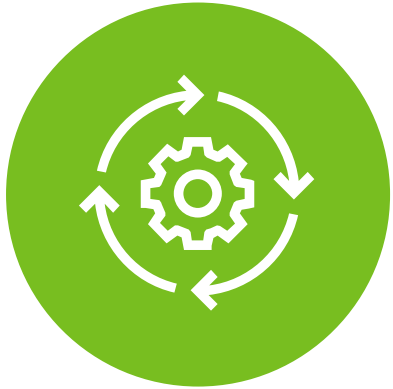
For more information on data collection, please see the CEIP FAQ:

<https://www.vmware.com/solutions/trustvmware/ceip.html>

Note: Skyline's Log Assist feature collects support log bundles to assist VMware Tech Support with troubleshooting active Support Requests. The data collected in a support bundle includes the name of the affected ESXi host, logs, virtual machine descriptions (but never the contents of virtual disks or snapshot files), information about the state of the affected machine, and, if present, core dumps. More information: <https://kb.vmware.com/s/article/2147388>

# Installing and Configuring Skyline

## Deploy Skyline Collector



Deploy OVF Template within vCenter Server

## Accept Privacy Agreement



Allows for collection of product usage data about your organizations use of VMware's products and services

## Link Collector



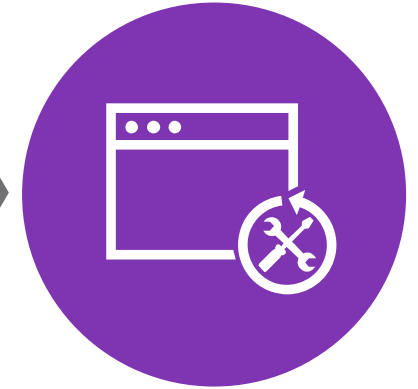
Link the Collector to your account using the token you create on the Cloud Services Platform

## Add Endpoints



Add product endpoints (vCenter Server, NSX Manager, Horizon, vROps) to the Skyline Collector

## Skyline Advisor



Begin receiving proactive recommendations based upon characteristics and details of your environment

# Get Started

## Download Skyline Today

### Get Started Today

<https://skyline.vmware.com/get-started>

### VMworld 2019 Skyline Deep-Dive

<https://videos.vmworld.com/global/2019/videoplayer/29844>

### More Information

<http://vmware.com/go/skyline>

### FAQs

<https://kb.vmware.com/s/article/55928>

### Skyline Community

<https://communities.vmware.com/community/vmtn/skyline>



# Screen Shots

Offline Demo

# Account Details

vm Skyline Advisor

VMware Skyline ... Skyline Demo

Skyline Demo

Premier

Home

Account Details

Inventory

Proactive Findings

OSR Library

Log Assist

Account ID

ad201b24-c48e-41bc-8fb5-ed42781ef723

Registered Collectors

1

Total VCs Collected

1

Total Hosts

3

Total VMs

13

Last Activity

2 days ago

Collectors

| Collector Name  | Collector ID                         | Version                 | Status                       | Last Activity       |
|---|--------------------------------------|-------------------------|------------------------------|---------------------|
| ▼ Skyline_Demo  | f2678494-c7d4-42d2-a12d-1c65d85e1be7 | <a href="#">2.0.0.2</a> | Active                       | Updated 2 days ago. |
| ▼ VMware vCenter Server-<br>vcenter01.core.hypervizor.com |                                      |                         |                              |                     |
| Storage DRS Cluster 1                                     | Cluster 1                            | Datastore 5             | Distributed Virtual Switch 3 |                     |
| Datacenter 1  | Host 3                               | Resource Pool 1         | Folder 5                     |                     |
| Virtual Machine 13  | Distributed Virtual Portgroup 12     |                         |                              |                     |
| > NSX Manager-manager                                     |                                      |                         |                              |                     |

SUPPORT

# Inventory View

vm Skyline Advisor

VMware Skyline ...  
Skyline Demo

Skyline Demo Premier

HomeAccount DetailsInventoryProactive FindingsOSR LibraryLog Assist

Inventories:

Hosts and Cluster Inventory

Networking Inventory

Storage Inventory

NSXv Inventory

Filters:

Solution Tags

☐ VVD

☐ VxRail

Add-Ons

☐ NSX

☐ vSAN

CLEAR ALLAPPLY

Search by Object Name and hit enter

| Inventory                       | Version | Build   | Add-Ons                 | Solution Tags |
|---------------------------------|---------|---------|-------------------------|---------------|
| ▼ vcenter01.core.hypervizor.com | 6.0.0   | 3634793 | -                       | -             |
| ▼ Cairo Datacenter              | -       | -       | -                       | -             |
| ▼ CAI Cluster                   | -       | -       | -                       | -             |
| esx01-s1.core.hypervizor.com    | 6.0.0   | 3620759 | vSAN EnabledNSX Enabled | -             |
| esx02-s1.core.hypervizor.com    | 6.0.0   | 3620759 | vSAN EnabledNSX Enabled | -             |
| esx03-s1.core.hypervizor.com    | 6.0.0   | 3620759 | vSAN EnabledNSX Enabled | -             |

FEEDBACK

SUPPORT

# Proactive Findings

vm Skyline Advisor

VMware Skyline ... Skyline Demo

Skyline Demo Premier

Home Account Details Inventory Proactive Findings OSR Library Log Assist

Filters

Objects

> ☐ manager

> ☐ vcenter01.core.hyp...

Severity

☐ Critical

☐ Moderate

☐ Trivial

Category

☐ Storage

☐ Network

☐ Compute

☐ Security

☐ Operations Management

☐ End User Compute

CLEAR ALL

APPLY

Findings Muted Findings

Search by Finding ID or Description and hit enter

Severity

Critical (30)

Moderate (12)

Trivial (10)

Category

Storage (11)

Compute (17)

Operations Management (0)

Network (17)

Security (7)

End User Compute (0)

☐ SELECT ALL

SEVERITY

EXPORT

MUTE FINDINGS

Total 52 Findings

☐

CRITICAL

Finding ID

NSXv-BackupRestoreNSXManager-K...

Description

Backup and restore of VMware NSX for vSphere 6.x components

Risk if no action taken

BCDR Impacting

# of Affected Objects

☐

CRITICAL

Finding ID

vSphere-vm-supportCNAFCoELinkDo...

Description

Running the vm-support command causes CNA FCoE links to be down in ESXi 5.1...

Risk if no action taken

Environmental Stability

# of Affected Objects

☐

CRITICAL

Finding ID

vSphere-PSODTcplnput-KB#213643...

Description

ESXi host fails with a purple diagnostic screen and reports the error: tcp\_...

Risk if no action taken

Potential ESXi host crash

# of Affected Objects

FEEDBACK

vmware

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# Initiate Log Transfer

vmSkyline Advisor

VMware Skyline ...  
Skyline Demo

Skyline DemoPremier

HomeAccount DetailsInventoryProactive FindingsOSR LibraryLog Assist

Selected Inventory

▼ vcenter01.core.hypervizor...

esx01-s1.core.hyperv...

Log Assist requires additional privileges on the Skyline service account. [Click here](#) for more details.

Step 1 of 2 - Select Inventory

Inventory

Select inventory to initiate log transfer from below topology view

Last Updated: 04/12/2019 06:32:59 EDT

Search by Object Name and hit enter

| Inventory  | Version | Build   | Add-Ons                 | Collector Name |
|--|---------|---------|-------------------------|----------------|
| > <input type="checkbox"/> manager                               | 6.3.2   | 5672532 | -                       | Skyline_Demo   |
| ▼ <input type="checkbox"/> vcenter01.core.hypervizor.com         | 6.0.0   | 3634793 | -                       | Skyline_Demo   |
| ▼ <input type="checkbox"/> Cairo Datacenter                      | -       | -       | -                       | Skyline_Demo   |
| ▼ <input type="checkbox"/> CAI Cluster                           | -       | -       | -                       | Skyline_Demo   |
| <input checked="" type="checkbox"/> esx01-s1.core.hypervizor.com | 6.0.0   | 3620759 | vSAN EnabledNSX Enabled | Skyline        |

FEEDBACK

# Initiate Log Transfer

vm Skyline Advisor

VMware Skyline ...  
Skyline Demo

Skyline Demo Premier

Home Account Details Inventory Proactive Findings OSR Library Log Assist

Selected Inventory

▼ vcenter01.core.hypervizor...

esx01-s1.core.hyperv...

Service Request Associated

19083255802

Initiate Log Transfer Log Transfer Requests Log Library

Step 2 of 2 - Service Request

Support Request

Select a Support request from the list

Search by SR number or case owner or description and hit enter

| SR #        | Description                | Date Created             |
|-------------|----------------------------|--------------------------|
| 19083255802 | Skyline Log Assist Test SR | 2019-02-14T17:15:31.000Z |

BACK INITIATE LOG TRANSFER

FEEDBACK

# Log Transfer Requests

vm Skyline Advisor

VMware Skyline ...  
Skyline Demo

Skyline Demo Premier

Home Account Details Inventory Proactive Findings OSR Library Log Assist

Filters

Objects

> ☐ manager

> ☐ vcenter01.core.hyp...

CLEAR ALL

APPLY

Initiate Log Transfer Log Transfer Requests Log Library

Auto Approve Log Requests ☐

There is no pending request for approval

FEEDBACK

SUPPORT

# Skyline Log Assist

## Enhanced Customer Support Experience

Auto Approve Log Requests 

VMware TSE can initiate log transfer

Customer receives log transfer request

Customer **approves/denies** log transfer request

Skyline Collector generates, and exports log bundle to VMware GSS

## Enhanced Support Experience delivered by VMware GSS

VMware TSEs now have more information available to them about the customer

Better enables the VMware TSE to assist customers with troubleshooting an open Support Request

Less **back & forth**, **reduced time-to-troubleshooting**, and a **enhanced customer support experience**

# Log Library

vm Skyline Advisor

VMware Skyline ...  
Skyline Demo

Skyline Demo Premier

HomeAccount DetailsInventoryProactive FindingsOSR LibraryLog Assist

Filters

Objects

> ☐ manager

> ☐ vcenter01.core.hyp...

Status

☐ Requested

☐ Rejected

☐ In Progress

☐ Expired

☐ Completed

☐ Failed

CLEAR ALL

APPLY

Initiate Log TransferLog Transfer RequestsLog Library

Search by SR number, Initiated By or Actioned By and press Enter...

Showing 5 Log Requests

| Name                           | Initiated At            | Associated SR | Initiated By        | Last Updated            | Status  |
|--------------------------------|-------------------------|---------------|---------------------|-------------------------|---------|
| Log_Bundle_03-14-2019_20:24:06 | 03/14/2019 16:24:06 EDT | 19083255802   | James Walker        | 03/14/2019 16:38:27 EDT | Failed  |
| Log_Bundle_02-27-2019_20:29:02 | 02/27/2019 15:29:02 EST | 19083255802   | James Walker        | 03/04/2019 15:29:04 EST | Expired |
| Log_Bundle_02-19-2019_16:11:50 | 02/19/2019 11:11:50 EST | 19083255802   | James Walker        | 02/24/2019 11:11:55 EST | Expired |
| Log_Bundle_02-14-2019_20:21:27 | 02/14/2019 15:21:27 EST | 19083255802   | James Walker        | 02/19/2019 15:21:55 EST | Expired |
| Log_Bundle_01-09-2019_20:01:47 | 01/09/2019 15:01:47 EST | 18026348912   | VMware Skyline Demo | 01/09/2019 15:09:09 EST | Failed  |

FEEDBACK

vmware®

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# Mute Object

vm Skyline Advisor

VMware Skyline ... Skyline Demo

Skyline Demo Premier

Home Account Details Inventory Proactive Findings OSR Library Log Assist


Objects

> ☐ manager

> ☒ vcenter01.core.hyp...

> ☒ Cairo Datacenter

☒ CAI Cluster

- ☐ esx01-s1.c... 
- ☐ esx02-s1.c...
- ☐ esx03-s1.c...

Severity

☐ Critical☐ Moderate☐ Trivial

Category

CLEAR ALL APPLY

Findings Muted Findings


Search by Finding ID or Description and hit enter

Severity

Critical (28)

Moderate (13)

Trivial (10)



Category

Storage (12)

Compute (17)

Operations Management (0)

Network (17)

Security (5)

End User Compute (0)

☐ SELECT ALL

SEVERITY

EXPORT

MUTE FINDINGS

Total 51 Findings

☐

CRITICAL

Finding ID

NSXv-BackupRestoreNSXManager-K...

Description

☐

CRITICAL

Finding ID

vSphere-vm-supportCNAFCoELinkDo...

Description

☐

CRITICAL

Finding ID

vSphere-PSODTcplInput-KB#213643...

Description

FEEDBACK

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# Muted Findings

vmSkyline Advisor

VMware Skyline ...  
Skyline Demo

Skyline DemoPremier

HomeAccount DetailsInventoryProactive FindingsOSR LibraryLog Assist

Filters

Objects

>

☐

manager

>

☐

vcenter01.core.hyp...

Severity

☐ Critical

☐ Moderate

☐ Trivial

Category

☐ Storage

☐ Network

☐ Compute

☐ Security

☐ Operations Management

☐ End User Compute

CLEAR ALL

APPLY

FindingsMuted Findings

Search by Finding ID or Description and hit enter

Severity

Critical (2)

Moderate (0)

Trivial (0)

Category

Storage (0)

Compute (2)

Operations Management (0)

Network (0)

Security (0)

End User Compute (0)

SELECT ALL

SEVERITY

EXPORT

UNMUTE FINDINGS

Total 2 Findings

☐

CRITICAL

Finding ID

vSphere-HostDisconnects-KB#214...

Description

ESXi 5.5 or 6.0 host disconnects from vCenter Server

Risk if no action taken

Environmental Stability

# of Affected Objects

☐

CRITICAL

Finding ID

vSphere-SCSIoperationsfail-KB#...

Description

SCSI operations fail with out of memory messages

Risk if no action taken

Environmental Stability

# of Affected Objects

FEEDBACK

vmware®

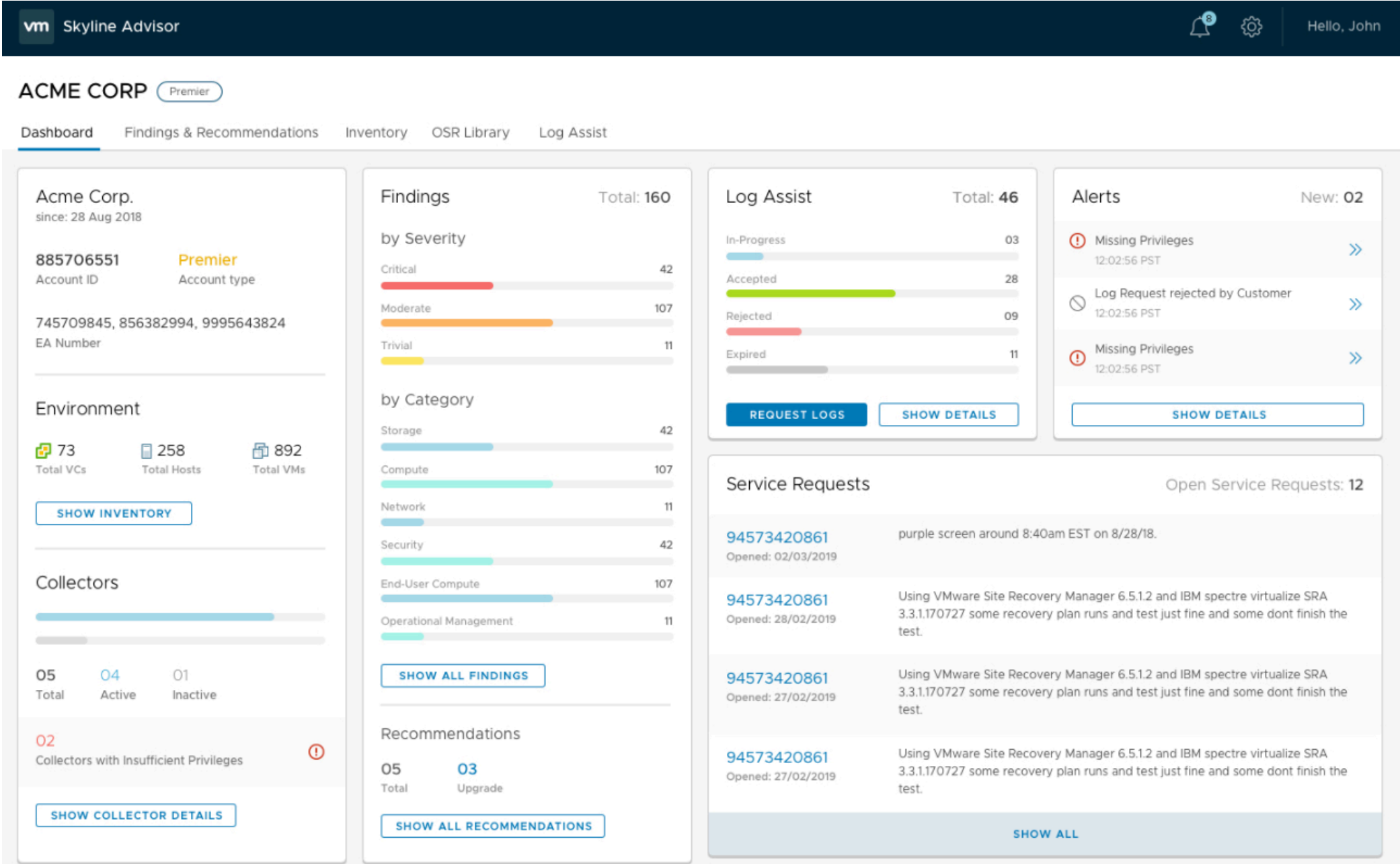
26



# New Features

Announced at VMworld

# New Dashboard View



vmware

# Upgrade Recommendations

vCenter vcenter01.company.com (7)

Below shown Recommendations are arranged as per Product Upgrade Order

| Recommendations for Product | Upgrade version to | New Build | Current Version | Current Build | Findings Addressed |
|-----------------------------|--------------------|-----------|-----------------|---------------|--------------------|
| ▼ Upgrade Horizon           | 7.5                | 4192238   | 7.0             | 2494585       | 60/130             |
| Upgrade Horizon             | 7.4.1              | 10764712  | 7.0             | 10302608      | 28/130             |
| > Upgrade vROps             | 7.5                | 5050593   | 6.5             | 3620759       | 46/130             |
| > Upgrade NSX-V             | 6.4                | 3380124   | 6.3             | 2494585       | 75/130             |
| > Upgrade vCenter           | 6.6.0              | 9313334   | 6.0             | 6921384       | 46/130             |
| > Upgrade ESXi              | 6.5                | 9298722   | 6.0             | 7967591       | 46/130             |
| > Upgrade vSAN              | 6.7                | 11726888  | 6.0             | 8024368       | 46/130             |

Consolidation of multiple Findings, into one recommendation. Perform **one recommendation** to remediate **multiple potential issues** within your environment.

# Upgrade Recommendations and Product Interoperability

ACME CORP Premier

Account Details Findings & Recommendations OSR Library Log Assist

## Upgrade 'vCenter1' to v6.5.0, build no. - 887352341

Current vCenter\_Name Version is vCenter v6.3.0, Build number: 7689946277

### Products Interoperability with vCenter v6.5

SHOW ALL

ESXi - (8) SHOW ALL

✓ Current ESXi\_1: v5.2.0  
Interoperable with vCenter v6.5.0

✗ Current ESXi\_2: v5.0.0  
Refer [Interoperability Matrix](#)

▼

NSX

✗ Not available in your environment

vSAN - (5) SHOW ALL

✓ Current vSAN\_1: v6.2.0  
Interoperable with vCenter v6.5.0

✗ Current vSAN\_2: v5.5.0  
Refer [Interoperability Matrix](#)

▼

Horizon View

ⓘ Support for Horizon View coming soon

VROps

ⓘ Support for VROps coming soon

### Helpful Links

VMware Products Interoperability Matrix: [https://www.vmware.com/resources/compatibility/sim/interop\\_matrix.php](https://www.vmware.com/resources/compatibility/sim/interop_matrix.php)

### Impact on Objects by Upgrade



### Remediated Objects by Upgrade

| Source Name | Object Name | Object Type     | Description   |
|-------------|-------------|-----------------|---|
|             | dilbert     | Virtual Machine | Virtual machine dilbert is using Virtual Hardware Version 8   |
|             | NS          | Virtual Machine | Virtual machine PLTWprint is using Virtual Hardware Version 8 |



Thank You