



# **Interoperability Matrix Tool overview**

## **Interoperability Matrix Tool**

NetApp

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# Interoperability Matrix Tool overview

The NetApp Interoperability Matrix Tool (IMT) is a web-based application. IMT enables you to search for configurations of NetApp products and components that meet the standards and requirements specified by NetApp. IMT maintains a repository of configurations, and provides a user-friendly interface for easy access of supported configuration information.

You can access IMT from the NetApp Support Site using one of the following standard browsers:

- For Windows:
  - Chrome N and N-1
  - Mozilla Firefox N and N-1



N stands for the latest version.

- Internet Explorer 11 and Edge
- For Mac:



The Interoperability Matrix Tool accepts URL links with criteria to simplify certain use cases. When you click a link from another tool to open the IMT, you might land on a playground page, rather than the home page, with a solution and certain components pre-selected.

- Chrome N and N-1
  - Mozilla Firefox N and N-1
  - Safari 8 and later

## Get started with Interoperability Matrix Tool

Interoperability Matrix Tool (IMT) is a web-based application that you use to search compatibility for your products using different solutions, configurations, components, and categories.

For easy navigation and clarity, this tool is divided into three pages: **Enter Criteria**, **Refine Search Criteria**, and **Results**. You must enter the search criteria on the first page. Based on your search criteria, you can view the compatibility of your product in the **Refine Search Criteria** page. This topic will give a quick run through of how to use IMT.

You can view the results in the **Results** page. Using this tool, you can search for components, make selections, build criteria, and view the compatibilities of your product.

You can accomplish the following tasks:

| Using this page... | You can perform these tasks...   |
|--------------------|--|
| Enter criteria     | Enter a search criteria and search for a solution, component, configuration, and category. If you know the solution name, you can search for a solution using the <b>ONTAP SAN Host Simplified</b> or the <b>Solution Search</b> feature. If you know a component name, you can search for a component using the <b>List and Find</b> or <b>Advanced Search</b> feature. |

| Using this page...     | You can perform these tasks...   |
|------------------------|--|
| Refine Search Criteria | <p>Find more definitive yes or no answer to compatible solution, component, configuration, and category for your product. You have an option to change the initial criteria that you entered on the first page using <b>Change Criteria</b> or <b>Try a different method</b>.</p> <p>Apply filters to the components in each category to find the best suitable configuration for your product.</p> <p>Remove the filters that you applied using <b>Clear All</b> or the <b>undo</b> icon.</p> |
| Results                | <p>After clicking <b>Continue</b>, the &gt; icon, or the splitter on the second page, view the <b>Results</b> page.</p> <p>You can view the components, notes, and history details of a configuration, sort the search results, view the search criteria that you have selected, modify the search criteria, filter the search results, and export search results to a Microsoft Excel sheet.</p>  |

## Use the Interoperability Matrix Tool home page

The Interoperability Matrix Tool (IMT) home page enables you to use **ONTAP SAN Host Simplified**, **Solution Search**, **List and Find**, and **Advanced Search**.

You can set any of these options as your default search using the **Set as default** star. When you click any one of the options, the relevant page opens to explore the compatible configurations.



To find previously saved searches, you can use the **Saved Search** menu. If you cannot find the configuration you need, click the **Can't Find Config?** menu and report the problem.

# Perform common searches

Use the cards on the home page of the Interoperability Matrix Tool (IMT) to perform common searches, including the **ONTAP SAN Host Simplified**, **Solution Search**, **List and Find**, and **Advanced Search**.

When you open the IMT, you see the most common search types on the home page:

- **ONTAP SAN Host Simplified**
- **Solution Search**
- **List and Find**
- **Advanced Search**

You can also watch [training videos](#) or open the [Active IQ Advisor](#) from the home page.

## Work with ONTAP SAN Host Simplified search

Check the compatibility for ONTAP version and Flash or Fabric storage version combinations. You can further refine your compatibility search for each relevant components.

### About this task

You can check the compatibility between your Flash or Fabric storage devices on your SAN with the ONTAP version you want to use and other relevant components. You can choose between **Expert view** or **Novice view**.



Click the **Set as default** option to automatically open a **ONTAP SAN Host Simplified** search whenever you open the IMT.

### Steps

1. Click **ONTAP SAN Host Simplified** from the home page.
2. Select the view you want to use:
  - a. Click **Expert view** to see advanced criteria options.
  - b. Click **Guided view** to see simplified and guided criteria options.
3. In **Novice view**, select the search criteria options as they display.
  - a. Click **Skip** to move to the next component without making a selection. You can return to the component by clicking **Unskip** as needed.
  - b. When done, click **View Results** to see the supported configurations for your search criteria.
4. In **Expert view**, select the search criteria you want to use for the various components. We recommend you move from left to right as each selection will refine the remaining criteria. You do not have to make a selection for each component.
  - a. When done, click **View Results** to see the supported configurations for your search criteria.
5. You can also do the following as part of the **ONTAP SAN Host Simplified**:

- a. Click the book icon to view the policy and guidelines applicable to your selection.
  - b. Click the chain icon to generate a sharable URL for your selections that you can share with others.
  - c. Select the undo icon to clear all of your selections and start again.
6. From the results screen, you can do the following:
- a. View the details, alerts, and information notices about your configuration.
  - b. Click the star icon to make this search a favorite. Name and describe the configuration. This becomes a saved search, viewable from the **Saved Search** menu. You can also subscribe to the configuration here, which will notify you when changes are made. If you subscribe, you will also see this listed under the **Subscriptions** menu.
  - c. Hover over the **Build End to End View With** to find additional supported solutions.
  - d. Click **What if** to change components and explore other compatibility options.

## Work with Solution Search

You can search for different storage solutions, and add or remove solutions from your search criteria. You can use the search text box within the **Solution Search** page to search for a specific solution. Frequently accessed solutions are displayed in the **Solution Search** field.

### About this task

The **Solution Search** page includes a **Solution Catalog** tab and a **Mapping Assistant** tab. In the **Mapping Assistant** tab, you can see the category of a selected solution by selecting either **Map by Category** or **Map by Solution**.

### Solution Catalog

On the **Solution Catalog** tab, you can **Filter Solutions** using the filter bar.

You can also select the **Include PVR Required, EOS, and Obsolete configurations** if you want to include such configurations.

### Mapping Assistant

The following are the two types of work area modes:

- **Map by Category:** You can select a category from the listed categories, and to enable all of the solutions containing the selected category, with valid solutions at the top of the list. You can add single or multiple enabled solutions of your choice. You can use the **Search Categories** text box to search for a specific category.
- **Map by Solution:** You can select a solution from the listed solutions, and to enable all of the solutions containing the selected solution, with valid solutions at the top of the list. You can add single or multiple enabled solutions of your choice. You can use the **Search Solutions** text box to search for a specific category.

You can also select the **Include PVR Required, EOS, and Obsolete configurations** if you want to include such configurations.

When done, you can see the items you have selected under the **Selected Storage Solutions**. Click **View**

## Refine Search Criteria or Skip to Results.

### Guided Search

**Guided Search** is enabled when you select a solution. The **Guided Search** provides a guided workflow to refine a criteria further.

### Steps

1. Click the **Solution search** from the home page.
2. Select the view you want to use:
  - a. Click the **Expert view** to see advanced criteria options.
  - b. Click the **Guided view** to see simplified and guided criteria options.
3. In the **Novice view**, select the search criteria options as they display:
  - a. Click **Skip** to move to the next component without making a selection. You can return to the component by clicking **Unskip** as needed.
  - b. After the first five selections, click **Show More** to continue refining your search criteria. You can return to the previous view by clicking **Show Less**.
  - c. When done, click **View Results** to see the supported configurations for your search criteria.
4. In **Expert view**, select the search criteria you want to use for the various components. We recommend you move from left to right as each selection will refine the remaining criteria. You do not have to make a selection for each component.
  - a. When done, click **View Results** to see the supported configurations for your search criteria.
5. You can also do the following as part of **Solution Search**:
  - a. Click the book icon to view the policy and guidelines applicable to your selection.
  - b. Click the chain icon to generate a sharable URL for your selections that you can share with others.
  - c. Select the undo icon to clear all of you selections and start again.
6. From the results screen, you can do the following:
  - a. View the details, alerts, and information notices about your configuration.
  - b. Click the star icon to make this search a favorite. Name and describe the configuration. This becomes a saved search, viewable from the Saved Search menu. You can also subscribe to the configuration here, which will notify you when changes are made. If you subscribe, you will also see this listed under the **Subscriptions** menu.
  - c. Hover over the **Build End to End View With** to find additional supported solutions.
  - d. Click **What if** to change components and explore other compatibility options.

## Work with List and Find

In the **List and Find** component work area you can view the best possible configurations for your components.

### About this task

Use the **Component Explorer** panel on the left to view configurations for selected components. The panel on the right displays the solutions; each tab represents a storage solution and the number of configurations that

use the selected components. If the green **Logic** toggle button on the **List and Find Component Workarea** is set to OR, you can search for solutions that have configurations containing single components. If the green **Logic** toggle button is set to **AND**, you can search for solutions that have configurations containing all the selected components. If multiple components are selected within the same component type, the button is set to **OR**.

## Steps

1. Click **List and Find** on the home page.
2. Search for a component name in the **Component Explorer** or expand the selection to add components to the **List and Find Component Workarea**.



You can select specific enabled solutions after adding a component to the **List and Find Component Workarea** before clicking **Next**. You can also export a maximum of 3000 rows for one solution at a time in an Excel spreadsheet or PDF.

3. Click **Next** to view where the components are used in configurations across multiple solutions on the **Results** page. The most compatible configuration for your list of components is displayed.

## Work with Advanced Search

You can search for different components using the **Advanced Search** to add or remove components from your search criteria. You can use the search text box within the **Advanced Search** window to search for components.

You can use the following filters as needed:

- Select **Do not show Limited Support components** to prevent seeing components with limited support in the results.
- Select **Do not show EOVS components** to prevent seeing components with end-of-version support in the results.

From this page, you can also view the **Component Explorer**, **Load saved criteria or configurations**, or use the **Search Assistant**.

# Explore the Interoperability Matrix Tool

The Interoperability Matrix Tool (IMT) is a web-based application you use to search for compatibility and supported configurations for your NetApp products.

You can perform the following tasks:

| Using this...             | You can perform these tasks...  |
|---------------------------|---|
| Home page                 | Search using <b>ONTAP SAN Host Simplified</b> , <b>Solution Search</b> , <b>List and Find</b> , and <b>Advanced Search</b> for viewing compatibility. Provides a direct link to the <b>Training</b> videos and the <b>Active IQ Interop Advisor</b> . |
| ONTAP SAN Host Simplified | Check compatibility for ONTAP version and Flash/Fabric storage version combinations.  |
| Solution Search           | Search for solution and add criteria to check compatibility.  |
| List and Find             | Know where the component is used in various configurations and across the solutions.  |
| Advanced Search           | Search for components and add criteria to check compatibility.  |
| Subscriptions             | View <b>Storage Solution</b> , <b>Category</b> , or <b>Component</b> configurations you have previously subscribed.   |
| Notifications             | View IMT update notifications.  |
| Saved Search              | Open searches you have previously saved.  |
| Can't Find Config         | Use to report a configuration you cannot find in IMT.   |
| Toolbox                   | Access tools depending on your role as <b>Customer</b> , <b>Partner</b> , or <b>Internal NetApp</b> employee.   |
| Reports                   | Export configurations for a solution using the <b>Complete Daily Exports</b> report or export end of version support components using the <b>Component EOVS Summary</b> report.   |
| Preference                | Create a list of favorite <b>List and Find</b> categories. These categories appear at the top of the <b>Component Explorer</b> in <b>List and Find</b> .  |

| Using this... | You can perform these tasks...  |
|---------------|---|
| Help          | <p>Click <b>What's New</b> to view the latest release notes for the IMT.</p> <p>Click <b>Online Help</b> to view this Interoperability Matrix Tool help set.</p> <p>Click <b>Training</b> to view videos exploring how to use the Interoperability Matrix Tool, check the <a href="#">NetApp Learning Center</a>.</p> <p>To report a problem or provide feedback for the Interoperability Matrix Tool, click the <b>Report a Problem</b> link. Click <b>FAQ</b> to view the frequently asked questions and answers about IMT.</p> <p>Click <b>Data Initiative</b>, if available, to see the planned clean up of the IMT database.</p> <p>Click <b>About IMT</b> to view the version and copyright statement.</p> <p>Click <b>Known Issues</b> to see reported and unresolved errors in the product.</p> |
| Take a tour   | View a guided tour around the IMT.  |
| <Your name>   | Click to <b>logout</b> of the IMT.  |



If you resize the window, all of the pages become responsive.

## Use Subscription

The **Subscription** link allows you to subscribe to **Storage Solution, Category, or Component**. If you have subscribed to a particular storage solution, category, or component, you will receive an email only if changes are made in the subscribed solutions, categories, or components.

You will receive emails for the following subscriptions:

1. **Storage Solution:** When the changes are made in the status update, categories associated or disassociated, and configurations added or deleted.
2. **Category:** When the components are added or deleted from the category.
3. **Component:** When the changes are made in the display name of the component or state of the component.



You will receive an email depending on the frequency type you select. The two frequency types are as follows:

- **Immediate:** You will receive an email immediately when any changes are made to the subscribed solutions, categories, or components.
- **Digest:** You will receive an accumulated email every seven days reflecting all the changes that are made to the subscribed solutions, categories, or components.

# Use Notifications

The **Notifications** menu displays your current notifications.

## Saved search capabilities

You can load different solutions or configurations using the **Saved Search** menu, which enables you to navigate to previously saved search results, recent search results, and saved configurations.

The **Search Criteria** tab holds your saved searches. On this tab, you can share searches or view searches that others have shared with you.

The **Configuration** tab holds your saved configurations. On this tab you can share configurations or view configurations that others have shared with you.

The **Recent Search** tab holds the last 30 sets of search criteria, from the most recent to the oldest. It also lists the **Search Flow** that indicates the originating page, which can be **List and Find**, **Solution Explorer**, or **Advanced Search**. The criteria is saved automatically. This page also lists the **Last Modified Date** of a saved or recent search. You can **Load** a search from the list to view the criteria or configurations respectively.

## Using Can't Find Config

If you cannot find the configuration you need, you can report the problem to the support team using the **CAN'T FIND CONFIG?** feature.

Open the **Can't Find Config?** menu to report a problem. Complete and send the form for assistance.

## Tools available in Toolbox

The **Toolbox** tab shows you a list of useful tools divided into three user categories. A link is displayed for each tool.

- Customers
  - Active IQ
  - Config Advisor
  - ConfigEdge
  - Hardware Universe
  - Active IQ Interop Advisor
  - NetApp Public Website
  - NetApp Support Site
  - One Collect
  - Unified Parser
- Partners
  - Field Portal
  - LatX

- QuoteEdge
- SmartSolve
- Synergy
- System Performance Modeler
- Tech Refresh Tool
- Internal to NetApp
  - Agile
  - BURT
  - EPIC

## Solution reports

You can view and download Excel or PDF versions of solution reports using the **Reports > Complete Daily Exports** feature. You can also download the Excel version of the **Component EOVS Summary**, which lists components that have reached end of version support.

## Work with preferences

The **Preferences List and Find Category Preferences** menu opens the **List and Find Category Preferences** page, where you can save your favorite categories to the top of the **List and Find Component Explorer** list.

### About this task

You can use the **List and Find Category Preferences** page to select your favorite categories. These categories appear on the top of the **List and Find Component Explorer** list and are boxed in red.

### Steps

1. Click **Preferences List and Find Category Preferences** on the home page.  
The **List and Find Category Preferences** page opens.
2. Select the categories you want to save as your favorites. You can scroll through the list or search for categories in the **Search Categories** field.  
You can select as many categories as you need.
3. Click **Save** to keep your preferences.  
If needed, you can click **Reset** to clear the existing preferences list.
4. To view your preferences, click **Home** and then click **List and Find**. Your favorite categories appear at the top of the **Component Explorer**, outlined in red.

# Interoperability Matrix Tool search workflow

As you start using Interoperability Matrix Tool, it is important that you understand some of the general use cases explained using the workflows.

## Work with search assistant

**Search Assistant** provides suggestions to explore the compatible configurations depending on the search criteria that you enter. The **Search Assistant** section displays the commonly used categories from which you can select components to include in the search criteria. Depending on the component you select, the search assistant displays the compatible components and solutions.

In case you have entered an incorrect search criteria and the Interoperability Matrix Tool (IMT) cannot find any results, the **Search Assistant** displays the suggestions to correct the search criteria.

## Work with search text box

You can search for components, solutions, categories and configurations using the search text box. Depending on the text you enter, the search text box displays possible matches which you can include in the search criteria.

## Use Refine Search Criteria

**Refine Search Criteria** allows you to explore compatible configurations for your product. By selecting components from different categories, you can narrow down the configurations that results to the desired configurations for your product.

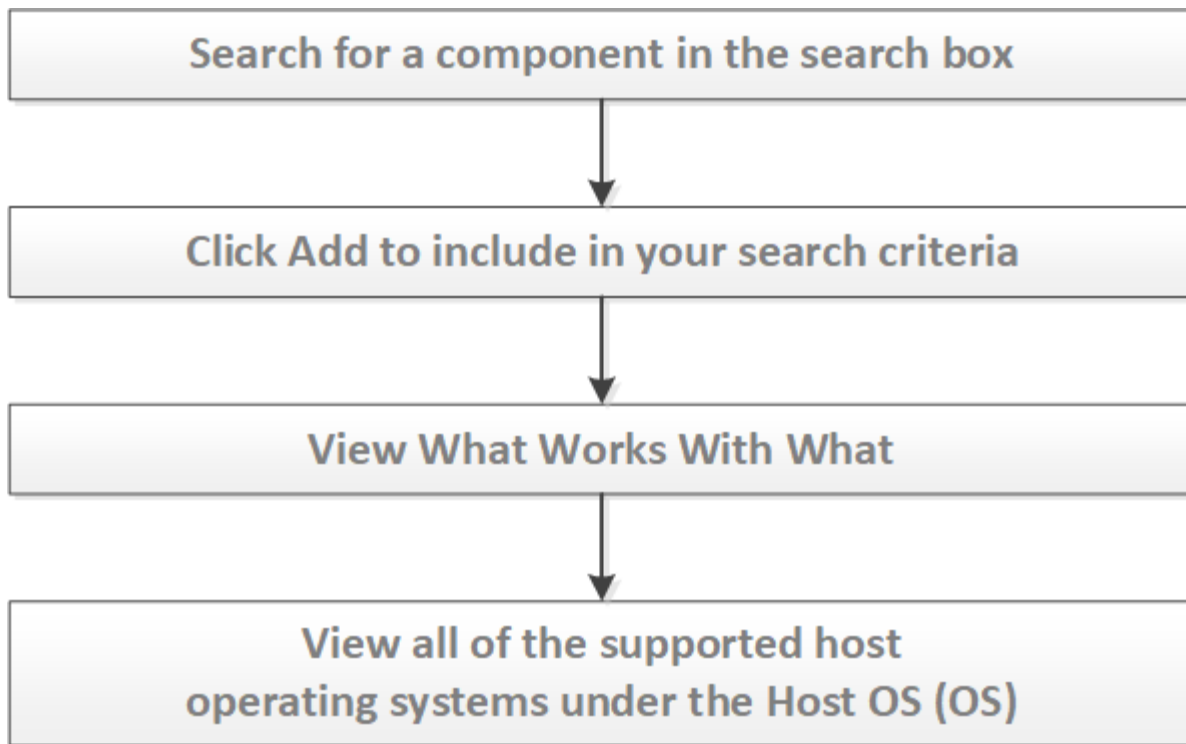


The keywords **Rack** and **Blade** are displayed only with the components in **4.x**.

## Find compatible host operating system for your products

You can use Interoperability Matrix Tool to view the supported host operating systems that are compatible with your product.

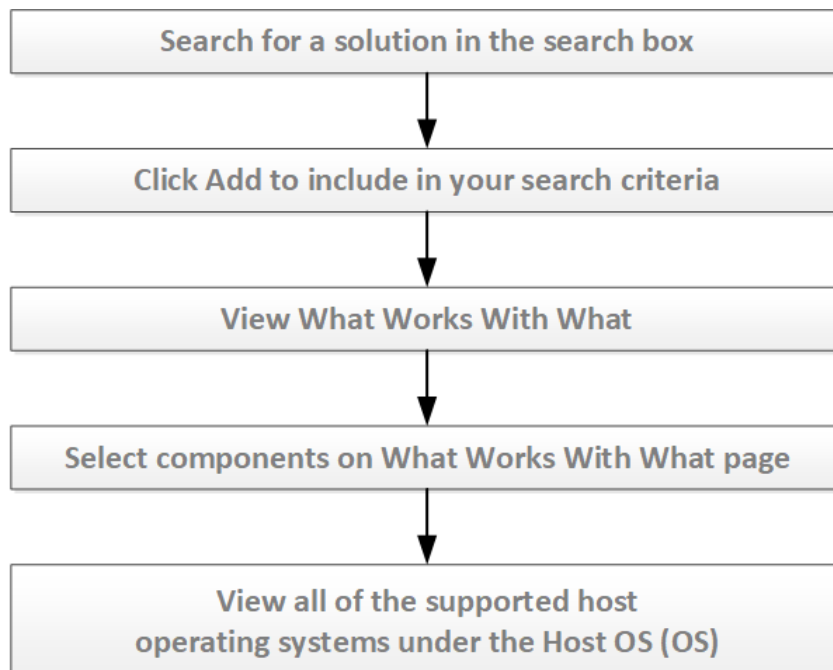
The following shows the workflow:



## Find compatible Windows Server host for your products

You can use Interoperability Matrix Tool to view the compatible Windows Server hosts for your products.

The following shows the workflow:



## Find compatibility with HBA cards

With the **ONTAP SAN Host Simplified** feature, the UI is simplified and condensed into three components; there were thirteen components in earlier versions of the UI. The remaining ten components are implicitly supported by NetApp, provided they are supported by the respective vendors. **Notes** and **Alerts** are categorized by solutions and are added to each result.

The three components supported in the Interoperability Matrix Tool (IMT) are ONTAP OS, Host OS, and Protocol.

You can use the IMT to validate the host OS supportability with ONTAP.

For example, validate Cisco Unified Computing System (Cisco UCS) Blade server supportability with ONTAP using the following configuration:

### Example Cisco UCS Blade server configuration

- ONTAP OS: 9.13.1
- Host OS: Red Hat Enterprise Linux 9.2
- Server model: Cisco UCS B200 M6 Blade server
- Host bus adapter (HBA)
  - Model: Cisco UCSB-MLOM-40G-04: Cisco UCS 1440 Virtual Interface Card
  - Driver version: 1.6.0.53 fnic
  - Firmware version: 5.3(2)
- UCS Server Firmware: 5.2(0)
- Protocol: FCoE

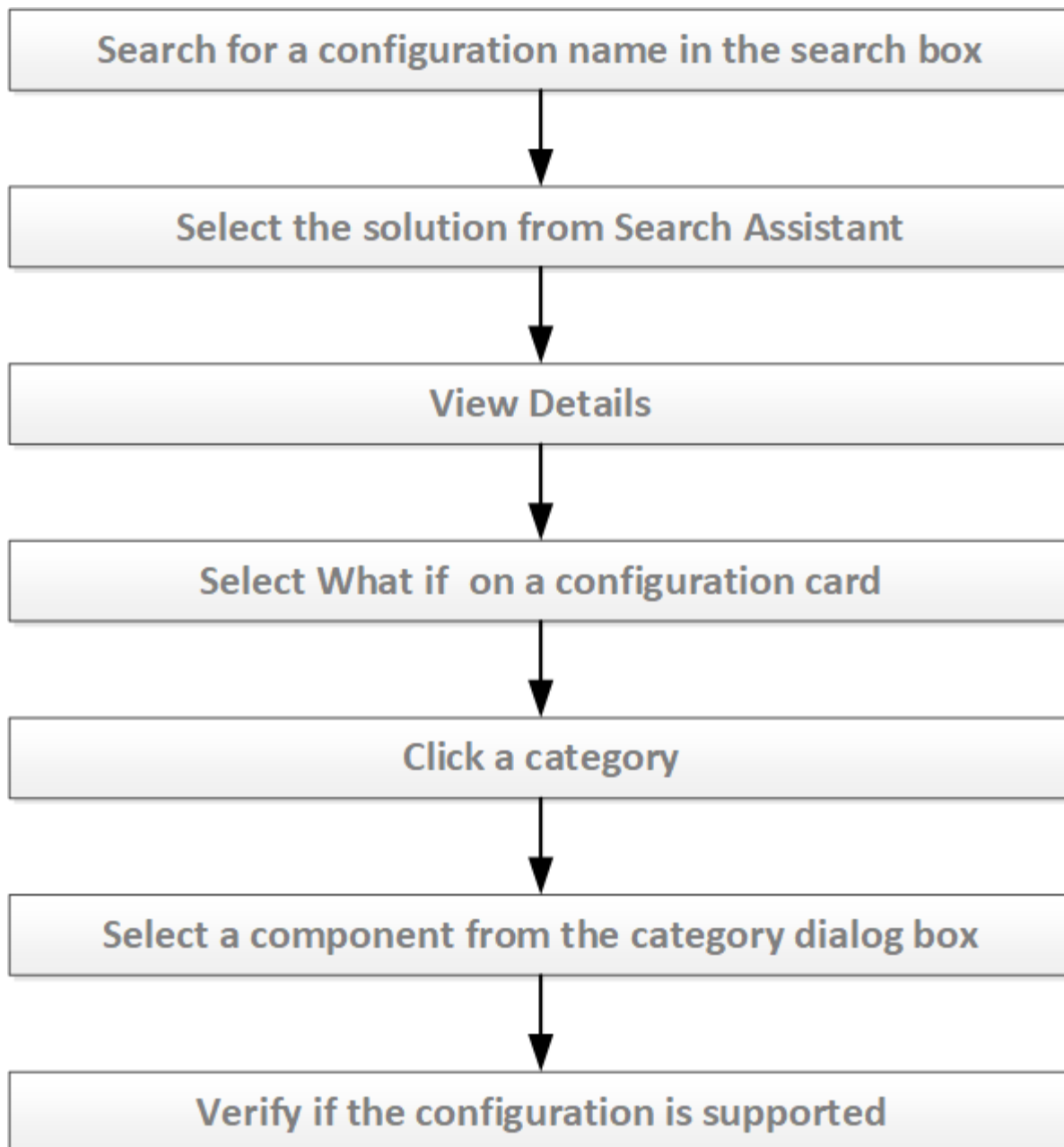
### Validate Cisco UCS Blade server supportability

- Use the **ONTAP SAN Host Simplified** feature in the IMT to verify that ONTAP 9.13.1, Red Hat Enterprise Linux 9.2, and FCoE protocol are listed as supported configurations.
- The HBA vendors supported by NetApp are Broadcom, Marvell, and Cisco. Cisco is included in the supported adapter list which implies that the Cisco Virtual Interface Card (VIC) is also supported.
- Use the vendor Hardware Compatibility list (HCL) to verify Cisco "UCS Hardware and Software Compatibility". As mentioned in the preceding server configuration list, verify that the HBA adapter model, the UCS server firmware version, and the HBA driver and firmware versions are supported with Red Hat Enterprise Linux 9.2.

## Find a specific configuration and checking for product upgrade or downgrade supportability

You can use Interoperability Matrix Tool to view a specific configuration to upgrade or downgrade a component in your product configuration.

The following shows the workflow:



## Work with results

You can view and export the results for the configurations that meet your product requirements.

From the **Results** page, you can build an end-to-end view by choosing a related solution which is compatible with the selected configuration.



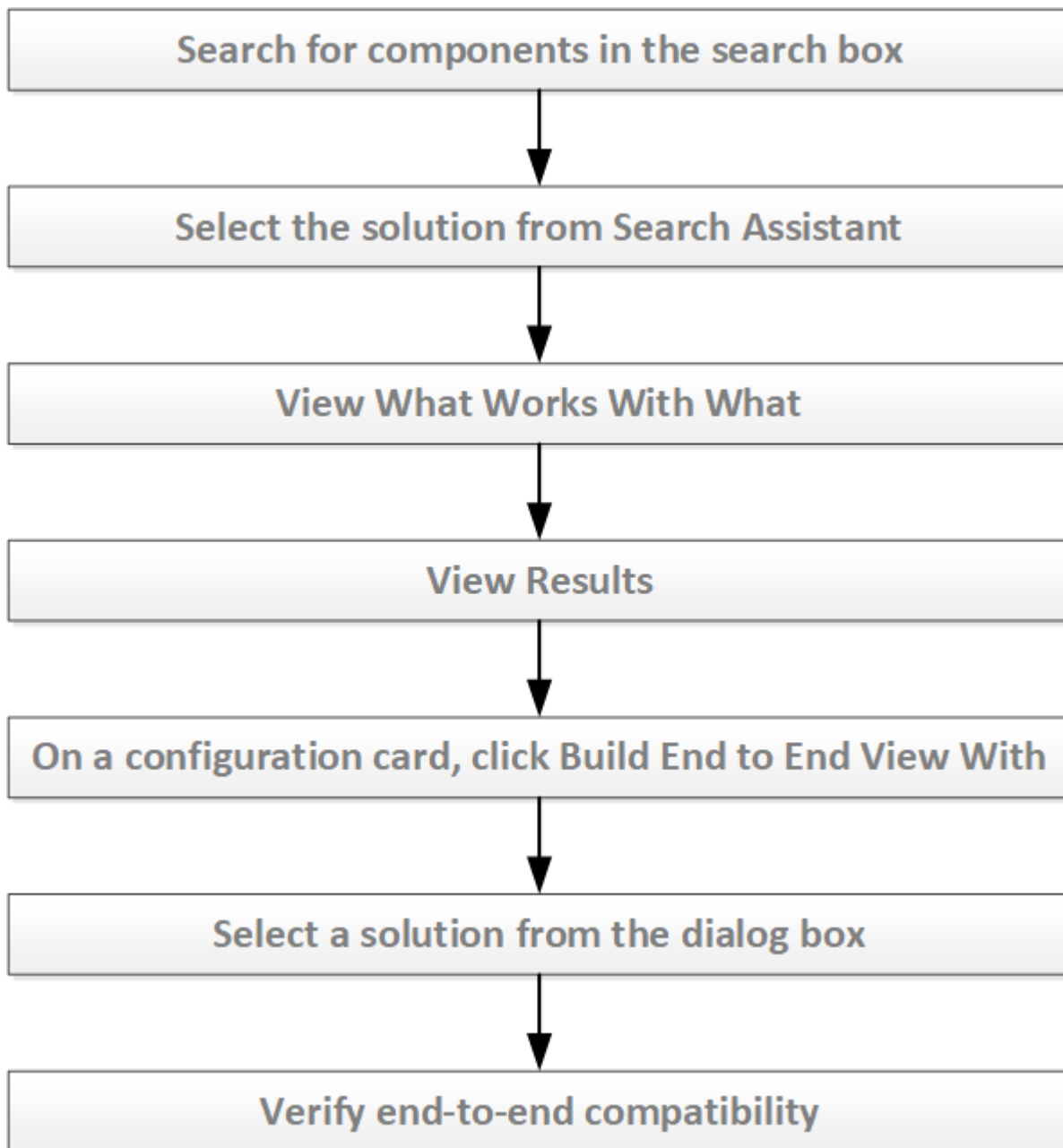
If you do not see the results you expect, clear the filters.

## Build end-to-end compatibility across products

You can use Interoperability Matrix Tool to build an end-to-end compatibility view across

products.

The following shows the workflow:



## View policies and guidelines

The **Policies & Guidelines** link opens the Policies and Guidelines page for the selected solution.

The Policies and Guidelines page describes all of the current information and guidance concerning the solution.

## Steps

1. Click **Policies & Guidelines** on the **Playground** page.  
The **Policies and Guidelines** page opens.
2. Review the latest news, guidance, policy information and copyright for the solution.  
On the **Playground** page, you can change the solution to view other policies and guidelines specific to it.
3. Close the page and return to the **Playground** page.

## Use What If

You can explore all possible configurations that are supported with your search criteria. You can use **What If** to upgrade or downgrade a component for a selected configuration and explore the compatibility.

If you cannot find the configuration you want, click **Feedback** to report a problem. For more information, see [Reporting an issue](#).

## The Active IQ Interop Advisor tool to determine compatibility

The **Active IQ Interop Advisor** tool allows you to generate a compatibility report when you search using specific criteria.

You can search by any of the following criteria:

- Serial number
- Cluster ID
- OneCollect job ID

You can find the previous search criteria information in **MyAutoSupport**.

## Report an issue

If you encounter an issue, then you can report the problem to the support and feedback team using the **Report a problem** feature.

# Define and enter the search criteria

You can define your search criteria using a combination of components, solutions or categories. Interoperability Matrix Tool allows you to enter a search criteria by adding components, solutions, or categories. You can enter a search criteria using the search text box, solution explorer, or component explorer.

## Add components to search criteria

You can add components to your search criteria using the search text box or the **Advanced Search**.

### About this task

If you know which components you want to add to the search criteria, you can enter the component names in the search text box. You can use the **Advanced Search** if you are not sure which components you want to add to the search criteria.

If you want to clear the components included in the search criteria, you can click **Clear All** in the top-right corner.

### Steps

1. In the Interoperability Matrix Tool home page, enter the component name in the search textbox to view the possible matches for the component.
  - a. Click **Add** to include the component to the search criteria.
  - b. Click **Add As** to include the components of multiple categories to the search criteria.
  - c. If you click **Show All Matches**, IMT displays the **Advanced Search** using which you can include more components to the search criteria.
2. Optional. You can include a component to the search criteria using the **Advanced Search**.
  - a. Click **Advanced Search**.
  - b. In the **Advanced Search** window, select a category or solution from the left pane.
  - c. In the right pane, identify the component to be added to the search criteria and click **Add**.
  - d. Enter keywords in the **Advanced Search** window.

You can activate keywords as a search option. If activated, then you can search one or more rows using keywords that are associated with those rows. You can also use the search text box within the **Advanced Search** window to search for a specific component. To remove a component added using the **Advanced Search**, you can click **Remove** in the right pane.

### Result

As you include components to the search criteria, the components are displayed in the right pane under **Search Criteria**.

## Add solutions to search criteria

You can add solutions to your search criteria using the search text box or the **Solution**

## Search.

### About this task

If you are aware of the specific solutions to be added to the search criteria, you can enter the solution names in the search text box.

You can use the **Solution Search** if you are not sure of the solution to be added to the search criteria.

If you want to clear the solutions included in the search criteria, you can click **Clear All** in the top-right corner.

### Steps

1. In the Interoperability Matrix Tool home page, enter the solution name in the search text box to view the possible matches.
  - a. Click **Add** to include the solution to the search criteria.
2. Optional. You can include a solution to the search criteria using the **Solution Search**.
  - a. Click **Solution Search**.
  - b. In the **Solution Search** field, identify the solution to be added to the search criteria and click **Add**.
  - c. If needed, you can enable the **Include PVR Required**, **EOS** and **Obsolete configurations** check box. This check box includes Product Variance Request, End of version Support, and obsolete items in the results.

You can use the search text box within the **Solution Search** window to search for a specific solution. To remove a solution added using the **Solution Search**, click **Remove** in the top pane.

### Result

As you include solutions to the search criteria, the solutions are displayed in the right pane under **Search Criteria**.

## Add configuration names to search criteria

You can add configuration names to your search criteria using the search text box.

### Before you begin

You must have the configuration name details, in order to search for compatible configurations. For example, 20150316-114603946 is a configuration name.

### Steps

1. In the search box, enter configuration name to view the possible matches.
2. Click **Add** to include the configuration name to the search criteria.

# Work with saved criteria, recent searches, and configurations

You can save and update the search criteria and configurations. You can load, edit, and delete the saved criteria and configurations.

## Save the search criteria

On the **Refine Search Criteria** page, you can choose to save or update the search criteria to retrieve it later.

### Before you begin

You must have already added solutions and components on the first page to save the criteria for future reference.

#### Steps

1. Click **Save Criteria** on the **Refine Search Criteria** page.
2. Enter the **Criteria Name** and add information in the **Description** fields.  
The **Criteria Name** can be alphanumeric and you can add up to 20 characters. The **Description** field can take up to 100 alphanumeric characters. The Interoperability Matrix Tool does not allow duplicate names for saving criteria. **Criteria Name** is mandatory.
3. Click **Update Criteria** to add filters or criteria to be included as part of the saved criteria.
4. Click **Save**.  
The **Save Criteria** link changes to **Update Criteria** after you save the criteria. You can save a maximum of 10 search criteria.

### Result

When you click **Saved Search**, a **Saved Criteria** pop-up is displayed. The **Recent Search** tab displays your most recent searches.

Each recent saved search is uniquely identified by its timestamp. You can click the timestamp to go to the **Refine Search Criteria** page.

## Saved Search criteria sharing with other users

From the **Refine Search Criteria** page, you can share your **Saved Search** criteria with other users.

The following are the three different methods for saving and sharing the search criteria:

- [Share the criteria while saving](#)
- [Share the criteria after saving](#)
- [View shared criteria](#)

## Share the criteria while saving

From the Refine Search Criteria page, you can share the search criteria while saving.

### Before you begin

You must add the solutions and components on the first page to share the criteria while saving.

### Steps

1. Select the Share checkbox to share the Saved Search criteria.
2. Enter the Username in the textbox for user search and click Add Users.



If the Username does not exist, validation message is displayed.

3. You can look up while using the search user option and submit to share criteria.

## Share the criteria after saving

From the Refine Search Criteria page, you can share the search criteria after saving.

### Before you begin

You must add the Saved Search solutions and components on the first page to share the criteria after saving.

### Steps

1. Click Saved Search option from the home page.
2. Click Share to share the criteria with others.
3. Enter the Username in the textbox to search the users and click Submit.

## View shared criteria

### Before you begin

You must save the solutions and components in the Saved Search.

### Steps

1. You can view the criteria that you shared with other users by setting the Saved Search option as default.
2. Select Username from the Shared By column to view the shared criteria.
3. An email notification will be sent to the shared users notifying about the share.



The update to the original criteria will have no bearing on the criteria that is shared. They are deemed to be separate entities.

## Load the saved criteria

From the home page, you can choose to either search for components or load the previously saved criteria.

### Before you begin

You must have saved the search criteria on the home page.

### About this task

You can click **Saved Search** to load all of the criteria that you saved earlier.

### Steps

1. Click **Saved Search** on the first page.
2. Click **Criteria** or **Configuration** tab to load the saved criteria or configuration.  
After you select the criteria name, the criteria will load in the search criteria panel.

## Edit saved criteria

You can edit the saved search criteria that you saved earlier. You can add any new components to the saved criteria or remove the component from existing saved criteria.

### Before you begin

You must load the saved criteria for editing it.

### Steps

1. Load the saved criteria, click the saved criteria link.
2. Click the **Refine Search Criteria** link.  
You can add or remove the criteria from saved criteria.

## Delete saved criteria

You can delete the saved search criteria.

### About this task

You must have the name of the saved criteria in order to delete the saved criteria.

### Steps

1. Click the delete icon **X** under the **Action** column.  
The pop up is displayed asking you whether or not you want to delete the saved criteria.
2. Click **Yes** to delete saved criteria.

3. Click **No** to retain saved criteria.

## Save configuration

You can save configurations with any name of your choice for a particular solution. This helps you to retrieve the configurations later without remembering the complicated configuration ID.

### Before you begin

You can easily retrieve the desired configuration later by looking for the name that you had specified.

### About this task

If you want to refer to the configuration later, you can save the configuration with any name of your choice.

### Steps

1. In the **Results** page, click star to save the configuration.  
After you save the configuration, the star turns yellow. You can save a maximum of 20 configurations.
2. In the **Tag Configuration** dialog box, enter the name and description to bookmark the configuration for reference.  
The saved configuration name is displayed on the configuration details link. You can add multiple configurations to a particular tag. A tag is unique to a single solution. Different users can use the same tag name.
3. Select the tag name from the drop-down arrow to add configurations to an already saved tab.

## Subscribe to configurations

You can subscribe to configurations with any name of your choice for a particular solution or component. This helps you to receive updates by email when there is an update or change in the subscribed row. You can subscribe to a maximum of 20 configurations.

### About this task

You can receive the emails for the following instances:

- When components are added to the configuration
- When components are deleted from the configuration
- When notes are added or deleted from the configuration
- When the state of the configuration is changed from supported to any of the additional terminal states – (EOS, Obsolete, and so on.)

### Steps

1. In the **Results** page, click star to save the configuration.

After you save the configuration, the star turns yellow. You can save a maximum of 20 configurations.

2. In the **Tag Configuration** dialog box, enter the name and description to bookmark the configuration for reference.
3. Click **Subscribe** to this configuration checkbox.
4. Click **Tag**.

## Unsubscribe the subscribed configurations

You can unsubscribe the configuration from the **Results** page if you do want to receive any more updates.

### Before you begin

You must have subscribed to the configurations from the **Results** page.

To unsubscribe the configuration:

- In the **Results** page, click star to unsubscribe the subscribed configuration. If you remove the configuration from the favorite list, the configuration is automatically unsubscribed.

## Load the saved configuration

You can load the previously saved configurations from the home page. You can view the tag name, description, solution name of the saved configuration.

### Before you begin

You can load the specific configuration by looking for the name that you have specified for that particular configuration.

### About this task

If you have already saved the configuration, you can load them later at any time.

### Steps

1. On the home page, click **Saved Search** option to load the saved configuration.
2. In the **Saved Configuration** tab, click configuration.
3. A mouse hover over the saved configuration displays the configuration name.
4. Click the **Tag Name** and load the configuration.
5. Click **View Details** link to go to the Results page.

## Remove configuration from saved tags

You can remove or update the saved configuration that you do not require.

## About this task

If you have saved configuration from results, you can remove it if you no longer require it for reference.

## Steps

1. Click the yellow star icon to remove or update the saved configuration.
2. Click **Remove** to delete the saved configuration.  
After clicking the remove button in pop up, the star icon changes from yellow to white.

## Delete tag names

You can delete the entire tag for saved configurations.

## About this task

Saved configurations can be deleted by removing the tag name. When you delete the tag name, all of the configurations associated with those tags will also be deleted.

## Steps

1. Click **Favorites**.
2. From **Saved Criteria** dialog box, click **Configurations** tab.
3. Click delete icon X under **Action** column.  
The pop up is displayed asking you whether or not you want to delete saved tags and its associated configurations.
4. Click **Yes** to delete tags and its associated configurations.
5. Click **No** to retain tags and its associated configurations.

## Save a recent search

From the Welcome to the IMT page, you can save your recent searches to preserve the criteria for later searches.

## Steps

1. Click **Solution Search** or **Advanced Search**.
2. Select search criteria.
3. Select **Skip to Results** or click **Next** to refine your search criteria and then navigate to the **View Supported Configurations** (results) page.  
A popup dialog informs you that your criteria is automatically saved.

## View recent search criteria

On the **Welcome to the IMT** page, you can load Saved Search criteria to display your recent searches.

## Before you begin

You must have saved your recent searches.

## Steps

1. Click **Saved Search**.
2. Select the **Recent Search** tab to view the recently saved searches.  
Your recent searches are displayed.
3. Select the **Search criteria** tab to view your specific saved search criteria.  
Your saved criteria is displayed.

# Find the compatibility using Refine Search Criteria

In the Interoperability Matrix Tool (IMT), the **Refine Search Criteria** page allows you to explore the compatible configurations for your product. You can search for compatible solutions, components, categories, or configurations for your product. By selecting the appropriate components, you can narrow down the configurations results depending on your requirements.

## Compatibility warning

If any of the components on the **Refine Search Criteria** page in the IMT end user app are in compatible with each other, a compatibility warning message is displayed. The compatibility warning, which is highlighted in red and displayed at the top of the page, looks similar to the following message:

Please note: you must go to the Results page (next step) to confirm valid configurations.

If you see the compatibility warning, navigate to the **View Supported Configurations** page by clicking the **View Supported Configurations** link.

## The Refine Search Criteria page to verify compatibility

The Interoperability Matrix Tool allows you to explore the compatible configurations for your product from the **Refine Search Criteria** page. You can narrow down the configuration results from this page to the desired configurations for your product.

You can navigate to the **Refine Search Criteria** page from the initial search criteria page, only if the criteria you entered has supported configurations. The **Refine Search Criteria** page is divided into two panes:

- **Search Criteria:** Displays the solutions, components, and filters added to the search criteria. You can modify the initial search criteria to view the required configuration results. You can check **Change Criteria** to go back to the **Search Criteria** page and modify the initial search criteria. You can check the **Dynamic Filtering** tab to view the compatibility between components immediately. You can uncheck the **Dynamic Filtering** tab to add multiple components together and, click **Update** count. You can check **Try a different method** tab to navigate to the home page.
- **Refine Search Criteria:** Displays the list of components under different categories. The categories listed in this pane are dependent on the search criteria and the compatible configurations.
  - If you have included a solution in the initial search criteria, you can select components from that specific category on the Refine **Search Criteria** page as well as components from other categories.
  - If you have included specific components in the initial search criteria, you cannot deselect the components included in the initial search criteria on the **Refine Search Criteria** page, but you can select additional components from other categories.

In each category, you can use the filter icon to display the search text box and search for a specific component. If you want reset or clear the component selections in the **Search Criteria** pane, click **Clear All**.

Depending on the components you select from the different categories, you will notice the number of

configuration results might vary. The more components you select, the more the Interoperability Matrix Tool narrows down the search results and allows you to view the desired configuration for your product.

## Apply filters to categories

In the **Refine Search Criteria** page, you can apply filters by selecting components from different categories. By applying filters, you can add components to the search criteria and narrow down the configuration results.

### Steps

1. Select the components from the desired categories on the **Refine Search Criteria** page, depending on your requirement.  
Within each category, you can search for specific components and select the required component.
2. **Optional:** Select multiple components from different categories to narrow down the configuration results.

Depending on the compatibility of the components selected, some of the components might not be available within the categories.

## Modify the search criteria

From the **Refine Search Criteria** page, you can choose to modify the search criteria to add a solution, component, or category to the criteria.

### Steps

1. In the **Refine Search Criteria** page, click **Change Criteria**.
2. In the search criteria page, you can add a solution, component, or category using the search text box.
3. Click **Next**, to view the compatible configurations in the **Refine Search Criteria** page.

## Generate the URL

In the **Refine Search Criteria** page, you can generate a URL for compatibility. You can embed the generated URL in other tools, upload it in the NetApp Support Site, or share it through an email. The generated URL can be directly uploaded into the browser.

### Steps

1. In the **Refine Search Criteria** page, select the components to filter down the results.
2. Click **Generate URL**.
3. Copy the URL from the URL Share window.
4. Click **Ok**.



You can use the URL that you have generated. The URL will show the components and the solutions that you have added to the search criteria.

# Understand and use Interoperability Matrix Tool results

Interoperability Matrix Tool allows you to view and export the results for the configurations that meet your requirements. From the **Results** page, you can build an end-to-end view by choosing a related solution which is compatible with the selected configuration. Additionally, you can use the **What If** feature to upgrade or downgrade a component within a configuration.

## Supported configuration searches

Interoperability Matrix Tool (IMT) makes it easy for you to view the results for supported configurations. You can perform multiple tasks, such as modifying, filtering, or exporting the results and viewing or modifying the search criteria.

In the **Results** page, IMT displays multiple supported configurations depending on the search criteria you have entered. You can view the complete configuration details for a specific configuration by clicking the configuration name or ID (for example, 20150202-204717518).

| Field name                 | Description  |
|----------------------------|--|
| Skip to Results            | Allows you to skip the <b>Refine Search Criteria</b> page and go directly to the <b>Results</b> page.  |
| Configuration name or ID   | The configuration name or ID is a unique identifier that is assigned to a specific configuration. You can click the configuration name to view all the configuration details. The status of the configurations are displayed along with the configuration name.                            |
| Details                    | Provides information about the compatible components and categories for a specific configuration.  |
| Alerts                     | Provides important information about the configuration; for example, release notes, information on deployment, recommendations, and so on.   |
| Info                       | Provides additional information about the configuration.   |
| History                    | Provides history of the configuration contents. The configuration contents are highlighted in green when the details are added, in blue when the details are updated, in red with the strike-off mark when the details are removed, and in black when there are no changes in the details. |
| Build End To End View With | Allows you to build an end-to-end view by choosing a related solution which is compatible with the selected configuration.   |

| Field name              | Description   |
|-------------------------|---|
| What If                 | Allows you to upgrade or downgrade a component in a selected configuration.   |
| Print                   | Allows you to print the configuration details.  |
| Policies and Guidelines | Helps you understand more about the policies and guidelines which are applicable for a selected configuration.<br>If there are any new changes added in the policies and guidelines, the changes are highlighted in yellow and are applicable for 30 days. If any policies and guidelines are removed, then the changes are strike out. If there are any changes in the <b>Policies and Guidelines</b> field, it will be indicated by an icon "NEW" in red. |
| Filter                  | Allows you to search for configurations that were modified during a particular period by providing appropriate date range in the <b>Last Modified Between</b> and <b>And</b> fields.  |
| Notes                   | Provides notes associated with the configuration.   |
| Row Compare             | Allows you to compare two rows with the configuration.  |

The search results are displayed with the configuration details for each result. Each row of the search result displays the details of a configuration that belongs to the currently selected storage solution. The configuration rows in the **End of Support** state appears in gray and the status next to configuration name is mentioned as **EOS** or **PVR**.

## Use row compare

Many rows contain very similar information in Interoperability Matrix Tool and it can become a tedious manual process for you to find the difference between the rows. Interoperability Matrix Tool provides a feature to compare two rows.

### About this task

In the Results page, each solution hosts Add to compare button or an icon on the configuration card header.

### Steps

1. To add configuration for compare, click **Configuration Component Compare** icon.  
You can select a maximum of two configurations to compare.
2. Click **Configuration Component Compare** button to compare two rows.

### Result

The differences are highlighted in **Bold** font on the layover display box. The components are grouped under respective component types. Components that are same across both the rows will be of normal font. You will not be able to compare rows across two solutions.

# Create an end-to-end view for a selected configuration

Interoperability Matrix Tool allows you to create an end-to-end view for a specific configuration, by selecting related solutions that are compatible with the configuration. You can use the **Build End To End View With** feature in the **Results** page to create an end-to-end view for a configuration.

## About this task

You can create an end-to-end view for a specific configuration only from the **Results** page.

## Steps

1. In the **Results** page for a specific configuration, click the **Build End To End View With** drop-down.
2. From the drop-down list, select the required solutions which are listed as compatible with that specific configuration. Solutions that are not compatible with that specific configuration are grayed out.
3. IMT displays a new tab in the **Results** page, indicating the modified configuration. Depending on your requirement, you can choose to include additional solutions using the **Build End To End View With** feature or export the configurations.

# Export configuration results

You can export the configuration results from the **Results** page, using the **Export** feature. The configuration results export contains details of the storage solution, search criteria, configuration details, and any specific alerts or additional information. You can export the configuration results to an Excel spreadsheet or a PDF.

## About this task

The filename format of the Excel sheet that includes the configuration results is  
IMT\_solutionshortname\_timestamp.xls.

## Steps

1. On the **Results** page, from the **Export** drop-down menu, you can choose to export the current solution or the end-to-end view of the configuration.
2. Depending on your requirement, click **Current solution** or **End to end view**. You can export a maximum of 3000 rows. Previously, you could export up to 1000 rows, but this limit has increased. You should use a filter to reduce the results. Optionally, you can use the **Complete Daily Export** feature to get the complete results.
3. You can save the Excel spreadsheet or PDF to your local machine.

# How to use What If

**What If** allows you to explore all possible supported configurations that are supported. You can use **What If** feature to upgrade or downgrade a component in a selected configuration and explore the compatibility. In order to view all the supported configurations after you upgrade or downgrade a component, you can use the **Export** option to export the configuration details to an Excel worksheet or PDF.

After you select a specific component to upgrade or downgrade in the **What If** window, you can view if the selected component is compatible with other components in the configuration or if there are no matching configurations. In case there are no matching configurations, you must consider expanding the initial criteria to derive more configurations.

The **What If** window is divided into two panes:

- Upper pane indicates if a selected component matches any valid configurations.
- Lower pane displays the various categories and the respective component versions.

If you cannot find the configuration you want, click **Feedback** to report a problem.

For more information, see [Report an issue](#).

## Select a component to upgrade or downgrade

You can use **What If** feature in the **Results** page, to upgrade or downgrade a component in your product configuration. You can change the components and explore the compatibility.

### Steps

1. Click **What If** to view the components you can upgrade or downgrade to modify the selected configuration.
2. Click a category to view the available components for upgrade or downgrade.
3. In the available options window, you can search for a specific component version and select it.
4. If the selected component is a valid configuration and compatible with your earlier configuration, then the compatibility message is displayed. You can now export the results to view all the supported configurations.

# Subscribe to Storage Solutions, Categories, or Components

You can subscribe to single or multiple storage solutions, categories, or components of your choice.

The **Subscription** tab allows you to subscribe to the following subscriptions:

- Subscribing to Storage Solutions
- Subscribing to Categories
- Subscribing to Components

## Subscribe to Storage Solutions

You can subscribe to single or multiple storage solutions of your choice.

### About this task

The two types of subscription are as follows:

1. **Immediate:** You will receive an email immediately when there are any changes made to the subscribed solution.
2. **Digest:** You will receive an accumulated email within seven days reflecting all the changes that are made to the subscribed solutions.

### Steps

1. Click the **Subscription** link from the header menu.
2. In the **Subscription** window, select the **Storage Solution** tab.
3. For storage solutions of your choice, select checkboxes for the **Solution status update, Categories associated or disassociated, or Configurations added or deleted** options.

You will receive emails for the following instances:

- When the status of the solutions is changed or updated.
  - When some categories are added or deleted from the solution
  - When some configurations are added or deleted from the solution
4. In the **Frequency** field, either select **Immediate** or **Digest**.



The default selection is **Immediate**.

5. Click **Subscribe** to subscribe for solutions that you have selected.



You can click **Reset** to clear all of the selections in the **Storage Solution** tab.

# Subscribe to Categories

You can subscribe to single or multiple categories of your choice.

## About this task

You will receive an email notification when components are added or deleted from a category.

## Steps

1. Click the **Subscription** link from the header menu.
2. In the subscription window, select the **Category** tab.
3. For the category of your choice, select the checkbox for the Components added or deleted option.
4. In the **Frequency** field, select **Immediate** or **Digest**.



The default selection is **Immediate**.

5. Click **Subscribe** to get subscriptions for the categories that you have subscribed.



You can click **Reset** to clear all of the selections in the Category tab.

# Subscribe to Components

You can subscribe to single or multiple components of your choice.

## About this task

You will receive an email notification when changes are made in the display name of the component or state of the component.

## Steps

1. Click the **Subscription** link from the header menu.
2. In the subscription window, select the **Component** tab.
3. To subscribe for the component of your choice, select the checkbox for the **Attribute Updated** option.
4. In the **Frequency** field, select **Immediate** or **Digest**.



The default selection is **Immediate**.

5. Click **Subscribe** to get the subscriptions for the components that you have subscribed.



You can click **Reset** to clear all of the selections in the **Component** tab.

# Troubleshoot Interoperability Matrix Tool issues

You should be aware of some common Interoperability Matrix Tool issues.

| Problems   | Workaround  |
|--|---|
| Interoperability Matrix Tool fails to load   | You must clear the browser cache, open a new browser and try logging in to IMT.                           |
| Interoperability Matrix Tool hangs   | This might be a network issue, you can try refreshing your browser.                                       |
| PI not inferring the desired solution  | You must select the appropriate solution from the <b>Solution Catalog</b> or select a specific component. |
| Unable to select different properties in <b>Refine Search Criteria</b> for HBA configuration | You must uncheck the HBA component and select a property.   |
| Daily report generation displays 404 error   | Daily cron jobs run at 22:00 Hrs PST and for a 30 minute duration, the reports will not be available.     |
| Login authentication failure for first time login to Interoperability Matrix Tool            | You must synchronize your login credentials for Interoperability Matrix Tool.                             |
| Newly added components are not displayed   | Wait four hours; the components will get updated automatically.   |

# Get more information

You can get help and find more information through various resources, documentation, and forums.

- [Documentation](#) – Release Notes and Guides for this release and previous releases.
- [NetApp training on YouTube](#) – NetApp videos.
- [NetApp resources](#) – Technical Reports and Knowledgebase Articles. Consider searching for "IMT".
- [NetApp Community](#) – NetApp product and solutions forums. Consider searching for "IMT".

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