

## Technical Brief – Information Map

# Veritas Information Map Connectors



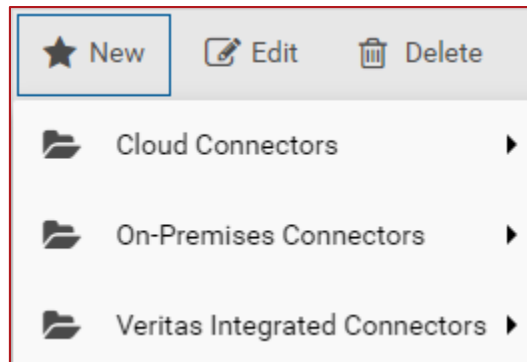
# Technical Brief – Information Map

## Information Map Connectors

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### Feature Description

Veritas Information Map has expanded the number of sources from which it can collect metadata. These sources include an assortment of cloud-based applications as well as on-premises applications.



**Figure 1 – Information Map Connectors**

The following is a list of sources from which Information Map can now collect:

#### Cloud Connectors

- Box for Enterprise
- Google Cloud Storage
- Google Drive
- Gmail
- Generic S3
- Microsoft Azure
- Microsoft Exchange Online (Office 365)
- Microsoft OneDrive
- Microsoft SharePoint Online
- Amazon S3

#### On-Premises Connectors

- IBM FileNet
- OpenText Document
- OpenText LiveLink
- Native File Servers
  - EMC Celerra
  - EMC Isilon
  - Hitachi NAS
  - NetApp Cluster
  - NetApp Standalone
  - Windows File Server (CIFS)
  - Veritas Files Server
- Microsoft Exchange
- Microsoft SQL Server
- Microsoft SharePoint
- Oracle Database

#### Veritas Integrated Connectors

- Backup Exec
- NetBackup

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Additional connectors may be available in future updates. For information on compatibility, see [https://www.veritas.com/support/en\\_US/article.100041301](https://www.veritas.com/support/en_US/article.100041301).

### Business Value

The new connectors greatly expand the capabilities of Information Map. Previous to the new connectors, Information Map was only able to collect metadata from Veritas NetBackup and Amazon S3. By collecting metadata from additional locations, organizations will have a much wider view of their data in order to make data driven decisions to help with cost and risk reduction along with implementing operational efficiencies.

### Underlying Principles

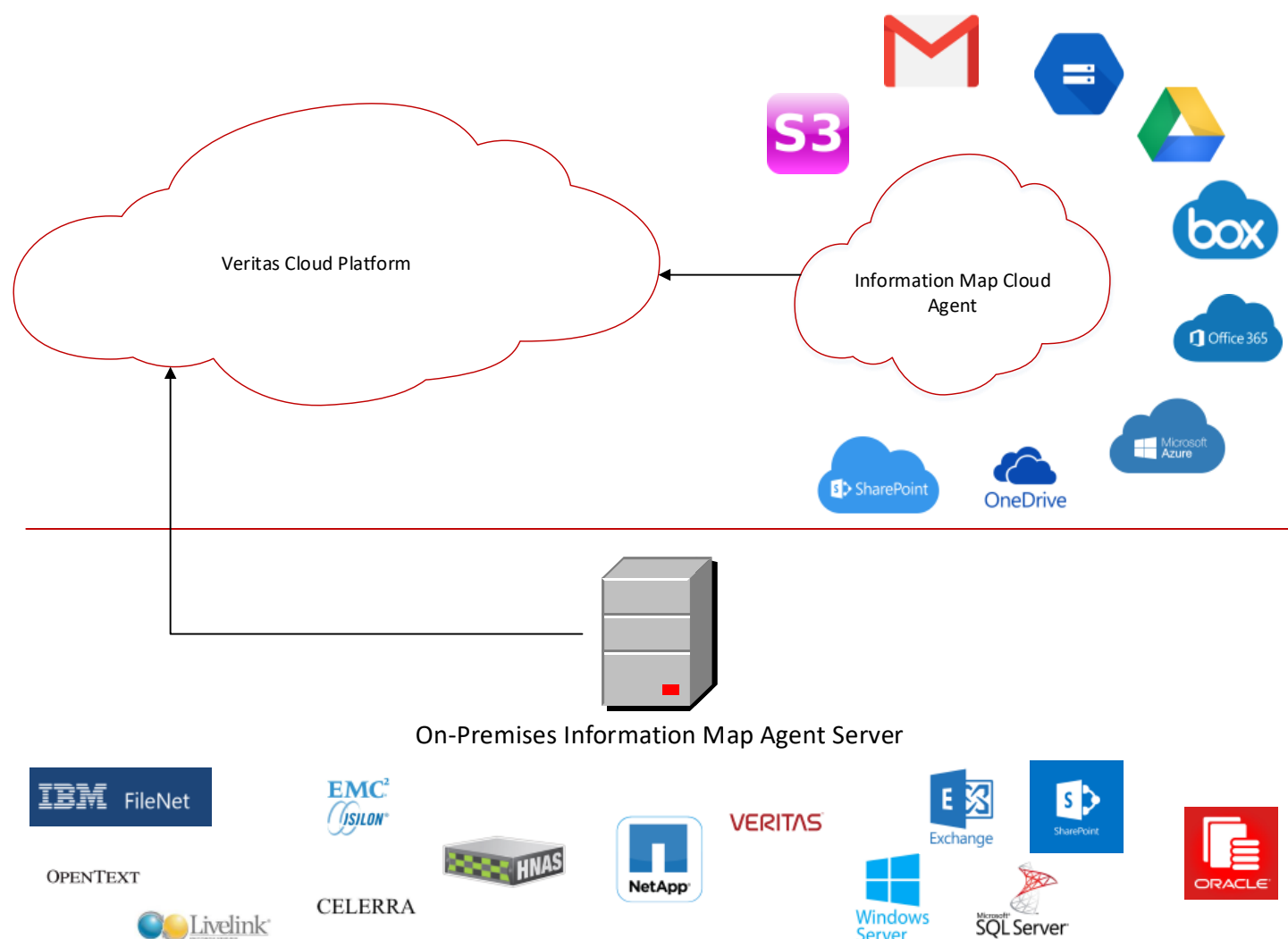


Figure 2 – Information Map Connector Overview

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## Information Map Connectors

### Connections and Credentials

Before Information Map can collect metadata from the new sources, an Information Map administrator will need to create credentials and connections. Credentials provide the necessary user account or login information for the connection. The details for each credential will depend on the connection type. Once a credential for a connection type has been configured, the administrators can then configure the connection. See the **Guided Tour** section for more information.

### Cloud-based Sources

Collecting metadata from cloud-based sources will not require a local Information Map agent to be installed. All metadata collection is performed by a cloud-based Information Map agent through Veritas cloud-based agents.

### On-Premises Sources

For on-premises sources, a local Information Map agent will need to be installed and configured. The Information Map Agent server has the following requirements:

- Virtual or physical server
- Windows Server 2012 R2 or later
- At least 8GB RAM. More RAM will be required if multiple on-premises targets will be scanned by the same Information Map Agent. In these situations, it is recommended to have 16-32GB RAM.
- At least 250GB free disk space. More disk space may be required depending on how many on-premises targets will be scanned by the agent.

### Guided Tour

In order to configure connections and credentials, a user must have the **Information Map configuration** administrator role within Information Map. Once logged into Information Map, the user must click on “Veritas Information Map” in the upper left corner. From there, the user will click on Connection Center as shown in Figure 3.

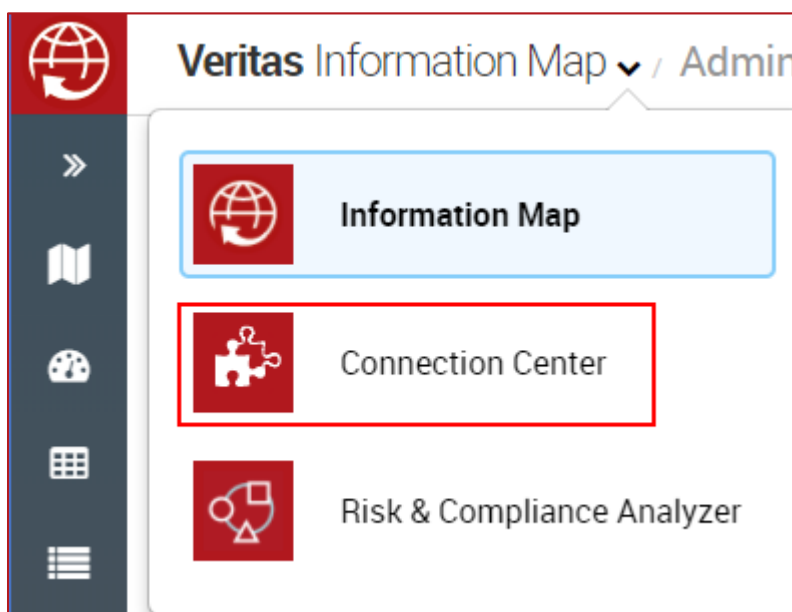


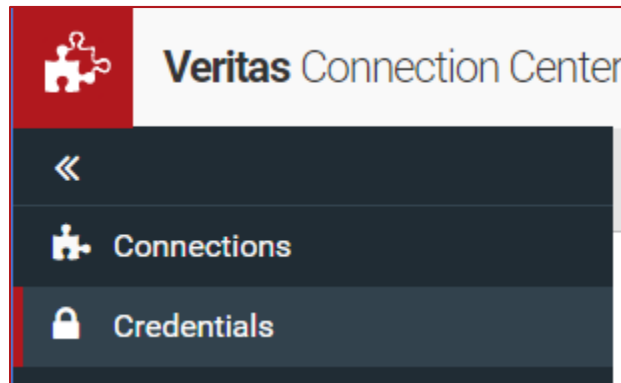
Figure 3 – Navigating to Connection Center

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# Information Map Connectors

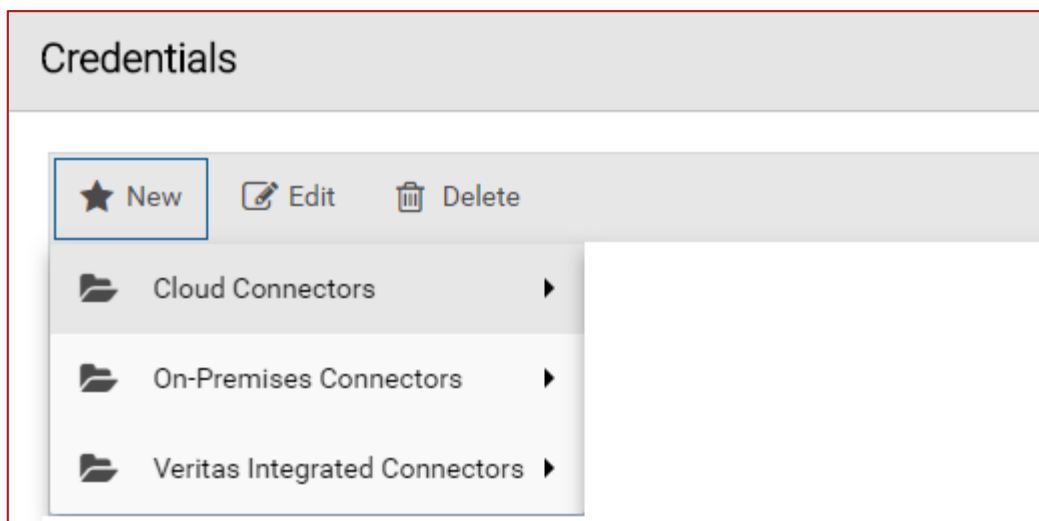
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In the Veritas Connection Center screen, there are two options for configuration, **Connections** and **Credentials** as shown in Figure 4. Before a connection can be configured, it will be necessary to configure credentials.



**Figure 4 – Veritas Connection Center**

To add a new credential, click on **Credentials** on the left side and then click on **New** as show in Figure 5. Next, select the target type (Cloud, On-Premises, or Veritas Integrated) and then target (e.g. Microsoft Exchange Online, Microsoft SQL Server, etc.).



**Figure 5 – Adding a New Credential**

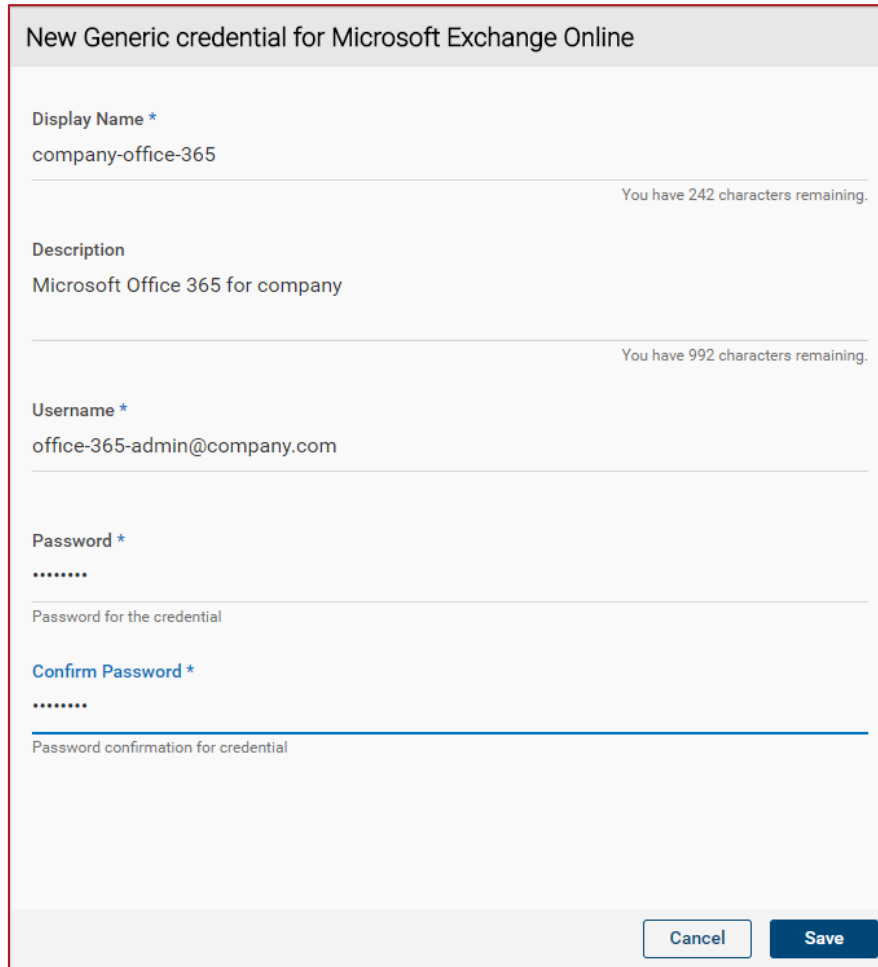
It will then be necessary to fill out the credential details. The details will vary depending on the connection type. Figure 6 provides an example of setting up a Microsoft Exchange Online credential.

Some connections may require additional permissions. Information Map will automatically assist with setting up additional permissions when creating the connection.

For more information, click on the help icon in the Veritas Connection Center screen.

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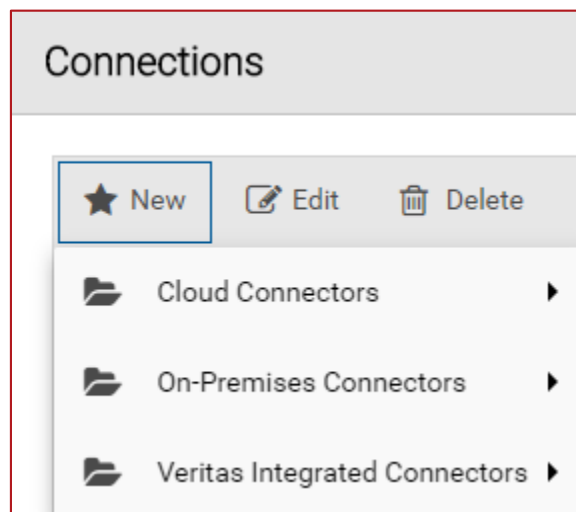
# Information Map Connectors



The screenshot shows a web form titled "New Generic credential for Microsoft Exchange Online". It contains several input fields: "Display Name \*" with the value "company-office-365" and a character count of 242 remaining; "Description" with the value "Microsoft Office 365 for company" and a character count of 992 remaining; "Username \*" with the value "office-365-admin@company.com"; "Password \*" with masked characters and a label "Password for the credential"; and "Confirm Password \*" with masked characters and a label "Password confirmation for credential". At the bottom right are "Cancel" and "Save" buttons.

**Figure 6 – Configuring a Microsoft Exchange Online Credential**

Once credentials have been defined, connections can be configured. In the Veritas Connection Center, click on Connections. Next, click on New and select the connector type as shown in Figure 7.

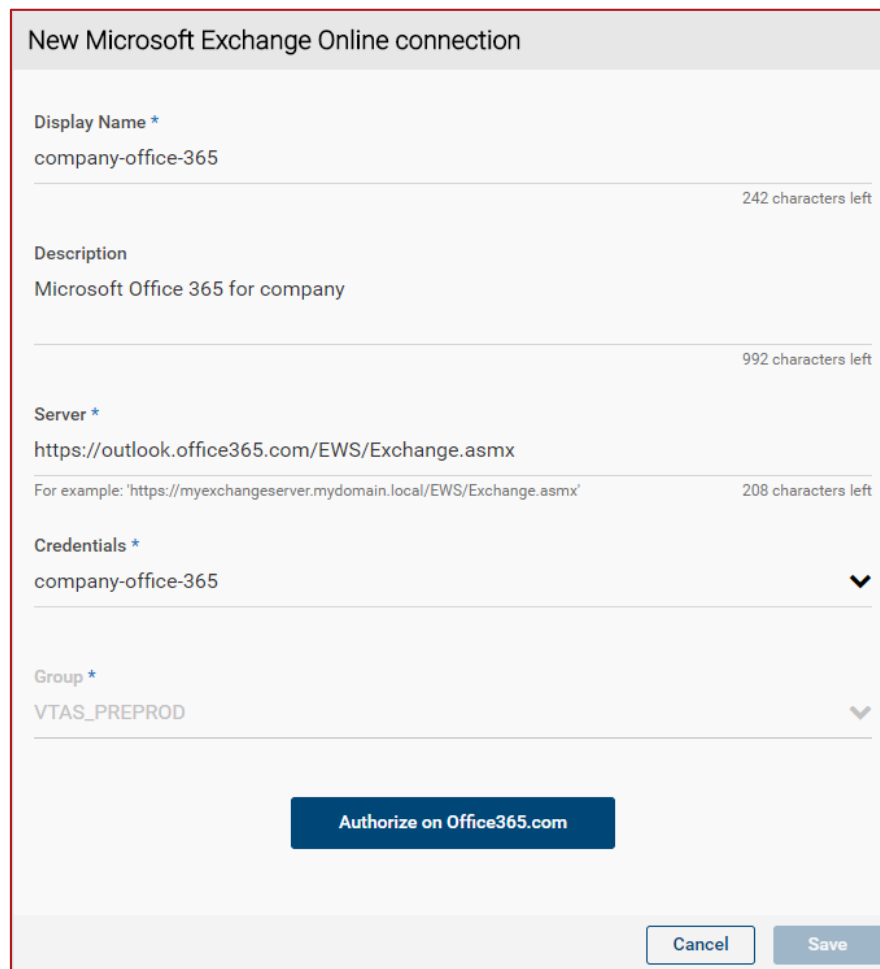


**Figure 7 – Configuring a New Connection**

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# Information Map Connectors

Figure 8 shows how to configure an Office 365 connector. Once the details have been filled out, it will be necessary to click on **Authorize on Office365.com**. Additional screens will be shown to grant Information Map access to Office 365. This authorization step is also required for other cloud connectors.



The screenshot displays a web form titled "New Microsoft Exchange Online connection". The form contains the following fields and controls:

- Display Name \***: A text input field containing "company-office-365". A character count "242 characters left" is visible on the right.
- Description**: A text input field containing "Microsoft Office 365 for company". A character count "992 characters left" is visible on the right.
- Server \***: A text input field containing "https://outlook.office365.com/EWS/Exchange.asmx". Below the field is a hint: "For example: 'https://myexchangeserver.mydomain.local/EWS/Exchange.asmx'". A character count "208 characters left" is visible on the right.
- Credentials \***: A text input field containing "company-office-365". A dropdown arrow is visible on the right.
- Group \***: A text input field containing "VTAS\_PREPROD". A dropdown arrow is visible on the right.
- Buttons**: A large blue button labeled "Authorize on Office365.com" is centered below the input fields. At the bottom right, there are two smaller buttons: "Cancel" and "Save".

**Figure 8 – Configuring a Microsoft Office 365 Connector**

On-premises connectors are similar to their cloud counterparts, but with a few minor changes. **Error! Reference source not found.** shows how to configure an on-premises Windows File Server connector. Unlike cloud connectors, on-premises connectors can have a scan schedule defined. A service group must also be specified. Service groups are defined when registering a new on-premises Information Map Agent.

Information Map Service Groups are used for on-premises, non-NetBackup connectors. These service groups are defined when registering an agent server with Information Map as show in Figure 10.

Service groups should be associated with agent servers on a highly connected network. Figure 11 shows an example of two data centers, Data Center A and Data Center B. Data Center A has two main network segments. For this location, two service groups are created, DataCenterA1 and DataCenterA2, each with its own Information Map agent server. For the other location, one service group is created, DataCenterB. This location has two Information Map agent servers which are be part of the DataCenterB service group.

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## Information Map Connectors

**New Windows File Server (CIFS) connection**

**Display Name \***  
company-fileserver1  
You have 241 characters remaining.

**Description**  
Company fileserver1  
You have 1005 characters remaining.

**Server \***  
fileserver1.company.com  
This should be a fully qualified domain name. You have 232 characters remaining.

☐ This is a clustered Windows File Server

**Scan Schedule**

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
4:00 PM							
5:00 PM							
6:00 PM							
7:00 PM							
8:00 PM							
9:00 PM							
10:00 PM							
11:00 PM							
12:00 AM							
1:00 AM							

**Credentials \***  
company-fileserver1

**Group \***  
felix

**Figure 9 – Configuring an On-Premises Connector**

**Service Group**

Please assign a group or create a new one. This is a group of framework entities and services.

☐ Existing service group  

Existing service group ▼

☒ New service group

**Name \***

**Location \***  

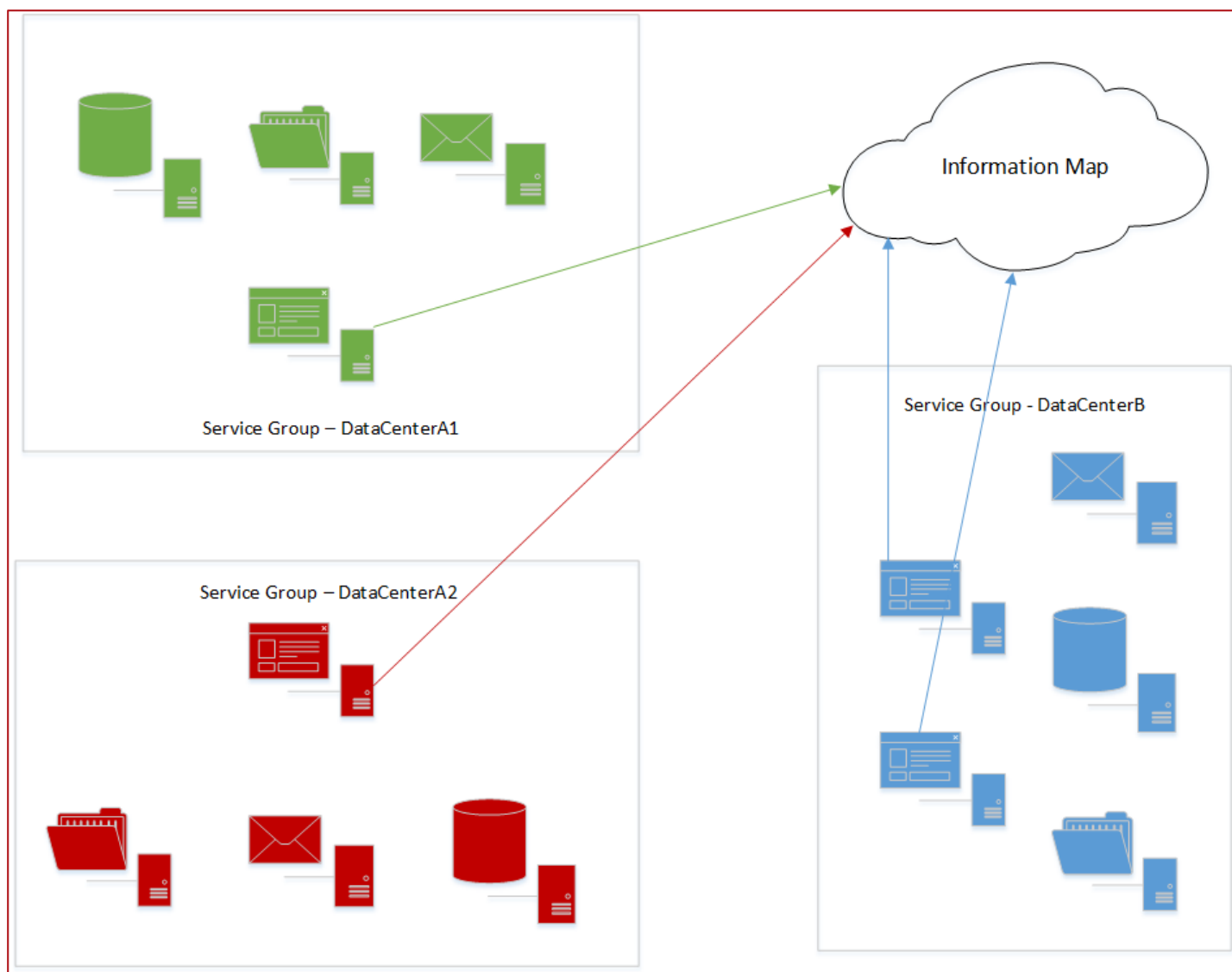
Select a location ▼

**Figure 10 – Configuring a Service Group during Agent Registration**



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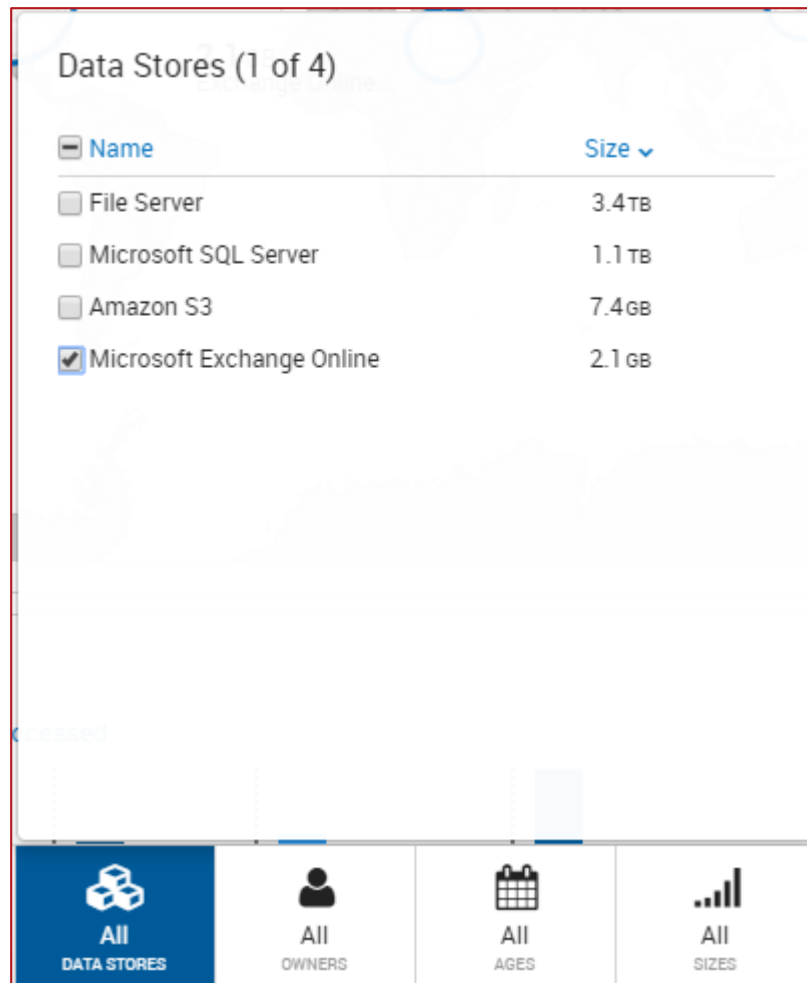
### Information Map Connectors



**Figure 11 – Service Group Overview**

Once a connector has been defined, the content sources discovered by a connector will show up in Information Map under the **Admin → Content Sources** section within 24 hours assuming the credential and the connector have been configured properly. The discovered content sources from the connectors must be enabled in order for metadata to be collected and presented in Information Map.

Content source metadata from connectors will be displayed in Information Map similarly to metadata collected from NetBackup or Amazon S3. Content sources from connectors can be sorted by any Information Map filter (location, content source, data store, etc.). Metadata from content sources from connectors can also be shown in Item List Preview and be exported to CSV format. Figure 12 illustrates how to filter down to show only Microsoft Exchange Online (Office 365) metadata in Information Map.



Data Stores (1 of 4)

<input type="checkbox"/> Name	Size ▾
<input type="checkbox"/> File Server	3.4 TB
<input type="checkbox"/> Microsoft SQL Server	1.1 TB
<input type="checkbox"/> Amazon S3	7.4 GB
<input checked="" type="checkbox"/> Microsoft Exchange Online	2.1 GB

Navigation bar:

- All DATA STORES
- All OWNERS
- All AGES
- All SIZES

Figure 12 – Filtering Datasets by Data Stores

## Licensing and Support Considerations

No additional licensing is required for the Information Map Connector feature. Container-based sources (such as database and email servers) are licensed for free. Information Map is licensed per front-end terabyte (FETB).

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