



Release 4.2



Release 4.2

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2020



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1. Privacera Release 4.2

Release 4.2

Build/Image r.4.2.1.72

08-Jan-2021

Versions

- Discovery - r.4.2.1.1
- Access Manager - rel.r.4.2.1.1
- Privacera Encryption Gateway (PEG) - r.4.2.1.1
- Previous Discovery - r.4.1.4.1
- Previous Access Manager - rel.r.4.1.4.1

Features/Changelist

Portal

- [\[Preview\]](#) Enhanced Access request feature.
- Introduced 'Entitlement Manager' user interface.
- User Management:
 - ROLE_SYS_ADMIN can force delete a user even if the user has created a few items in the portal.
 - Now allows a portal user to be assigned multiple portal user Roles. For more information, see [Assign Multiple Portal User Roles](#).

- Datzone:
 - For Workflow policy, when a user enters the max file size in megabyte unit - the system allows the user to add decimal values as well. Only 1 decimal point is allowed. For example 35.6
- Dashboard:
 - The search filter has been improved with better resource selection.
 - Expanded Alerts dashboards with an Application column.
 - Global Exports - Provided Export feature for selected modules.
- UX Improvements:
 - Data Source, Tags Information, Dictionaries, and Data zones menus: Aligned action buttons such as Edit, Delete, Upload, Download, etc. in a horizontal format including the title. Also, if the title is having long keywords (e.g. CUSTOMER_ADDRESS_KEYWORD_KEYWORD) then it will get wrap in the next line.
 - Patterns, Models, and Rules menus: Added and aligned the refresh button on the left-hand side of the search bar to make it consistent.
 - User/Groups/Roles, Permissions, and User Management menus: Added fixed width to the table columns to create enough necessary space for the data. If the data is having long keywords then it will get wrap in the next line.
 - Alerts Dashboard and Logs menus: Improved the look and feel of the alert status tabs by adding enable/disable mode, etc.

- Changed the 'Help' menu icon.

Discovery

- Added support for re-evaluating workflow and workflow-expunge policies.
- Updated Spark version to latest stable version 3.0 for cloud environments - Docker and Kubernetes.
- Added support for re-evaluation by location.
- Added time-based widget on the Kafka scan page.

i To upgrade Discovery to 4.2 version, see [AAG Install Guide: Discovery Installation: Upgrade Discovery from Current Version to 4.2](#)

Access Manager

- Upgraded Access Manager from the current version to 2.1. For more information, see [AAG Install Guide: Privacera Ranger 1.0: Upgrade Access Manager from 2.0 to 2.1](#)
- Integration of Azure key vault.
- Enable Solr Authentication.
- Support struct data types in columns for access control and masking.

Privacera Manager

- Added 'Quick Links' and 'Service Links' in PM logs. For more information, see [Configure and Install Core Services](#).
- Added support for Solr Authentication. For more information, see [Solr Authentication](#).



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- Added support for Audit Server and Fluentd with Local and S3 destination. For more information, see [Audit Fluentd](#).
 - Added support to provide a Custom certificate for SSL-Enabled LDAP UserSync. For more information, see [LDAP / LDAP-S for Data Access User Synchronization](#).
 - Created 'privacera-kms' service and default KMS policy for all keys for padmin user. For more information, see [Privacera Encryption Gateway \(PEG\) and Cryptography with Ranger KMS](#).
 - Added support to configure STS Assume Role for Databricks. For more information, see [Databricks Scala](#).
 - Exposed the external service Urls and ports for Solr, Ranger, Portal, and PEG.
 - Exposed all the Discovery configuration properties to be configurable through PM. For more information, see [Add Custom Properties to Discovery Configuration](#)

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2. Supported Versions of Components

Supported Versions of Components

The following table provides the list of supported versions of components.

Components	Versions Supported in Each Release				
	3.7.x	3.8.x	4.0.x	4.1.x	4.2.x
MariaDB	10.3	10.3	10.3	10.3	10.3
Solr	8.5.1	8.5.1	8.5.1	8.5.1	8.5.1
Zookeeper	3.4	3.4	3.4	3.4	3.4
PostgresSQL	10	10	10	10	10
Databricks Runtime Version	6.3 - 6.6	6.3-7.2	6.3 - 7.2	6.3 - 7.2	6.3 - 7.2
Databricks Spark Version	2.4.4 - 2.4.5	2.4.4-3.0.0	2.4.4 - 3.0.0	2.4.4 - 3.0.0	2.4.4 - 3.0.0
AKS	1.15.11	1.15.11	1.17.11	1.17.11	1.17.11
EKS	1.15	1.15	1.17	1.17	1.17
EMR	5.29	5.29-5.30.x	5.29 - 5.30.x	5.29 - 5.30.x	5.29 - 6.0
RDS (Aurora DB MySQL flavor)	5.7/5.6	5.7/5.6	5.7/5.6	5.7/5.6	5.7/5.6
Databricks Spark Version for Discovery	2.4.4 - 2.4.5	2.4.4 - 2.4.5	2.4.4 - 2.4.5	2.4.4 - 2.4.5	2.4.4 - 3.0.0
Discovery Docker Spark Version	2.4.3	2.4.3	2.4.3	2.4.3	3.0.0
Discovery Kubernetes Spark Version	2.4.5	2.4.5	2.4.5	2.4.5	3.0.0
Hive	2.3.6	2.3.6	2.3.6	2.3.6	2.3.6



Spark	2.4.4	2.4.4	2.4.4	2.4.4	2.4.4
PrestoDB	0.227	0.227 - 0.232	0.227 - 0.232	0.227 - 0.232	0.227 - 0.232
Zeppelin	0.8.2	0.8.2	0.8.2	0.8.2	0.8.2
Hue	4.4.0	4.4.0	4.4.0	4.4.0	4.4.0
Livy	0.6.0	0.6.0	0.6.0	0.6.0	0.6.0
Ranger	2	2	2	2	2.1
Starburst PrestoSQL	332-e	332-e	332-e	332-e	332-e

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3. Supplemental Information

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3.1. Assign Multiple Default Roles

This feature allows an external auth user to have multiple default roles. To configure this feature, use the following steps:

Steps for Cloud Environment:

1. Edit the Application properties file.

```
Bash (Unix Shell)
cd privacera/docker/
vi privacera/portal/conf/application.properties
Bash (Unix Shell)
privacera.portal.auth.default.user.role=ROLE_USER,ROLE_EXPLORER_ALL
```

2. Save the Application properties file.
3. Restart the Privacera Portal.

```
Bash (Unix Shell)
./privacera_services restart privacera
```

Consider the below Illustration:

1. Suppose LDAP is configured for authentication and when LDAP user login to Privacera Portal, *the user will have 'ROLE_USER' and 'ROLE_EXPLORER_ALL' roles.*
2. If LDAP Role Mapping is enabled in the Privacera Portal and LDAP group is mapped to any of the ROLE such as ROLE_ADMIN then, *LDAP user who belongs to that mapped LDAP group will have 3 roles i.e. 'ROLE_USER', 'ROLE_EXPLORER_ALL', and 'ROLE_ADMIN'.*



Note: In the above example 'ROLE_USER', 'ROLE_EXPLORER_ALL', and 'ROLE_ADMIN' are mentioned as sample roles.

Steps for HDP Environment:

1. Login to Ambari.
2. Go to Privacera from left menu and then click the **Configs** tab.
3. Expand **Advanced privacera-application-properties** and select the checkbox for **auth.ldap.enabled=true** .
4. Now, click the **Advanced** tab and expand the **Custom privacera-application-properties** and enter the below property.

```
Bash (Unix Shell)
```

```
privacera.portal.auth.default.user.role=ROLE_USER,ROLE_EXPLORER_ALL
```

5. Click **Save**
6. Restart the Privacera Portal.

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3.2. Add Custom Properties to Discovery Configuration

In Privacera Manager, all the properties of the Discovery service are configurable. If you want to override any default/hard-coded property value, just add the properties in the Discovery YAML file and define a value for it.

For example: When you install Privacera platform on your instance, the default username and password for the Discovery service are padmin/padmin. If you wish to override these default values and define your own username and password for the Discovery service, perform the following steps:

1. SSH to the instance.
2. Run the following commands.

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Docker

Bash (Unix Shell)

```
cd ~/privacera/privacera-manager
cp config/sample-vars/vars.discovery.aws.yml config/custom-vars/
vi config/custom-vars/vars.discovery.aws.yml
```

Kubernetes

Bash (Unix Shell)

```
cd ~/privacera/privacera-manager
cp config/sample-vars/vars.discovery.kubernetes.yml config/custom-vars/
vi config/custom-vars/vars.discovery.kubernetes.yml
```

[+] [Azure](#)



[-] [Hide](#)

Docker

Bash (Unix Shell)

```
cd ~/privacera/privacera-manager
cp config/sample-vars/vars.discovery.azure.yml config/custom-vars/
vi config/custom-vars/vars.discovery.azure.yml
```

Kubernetes

Bash (Unix Shell)

```
cd ~/privacera/privacera-manager
cp config/sample-vars/vars.discovery.kubernetes.yml config/custom-vars/
vi config/custom-vars/vars.discovery.kubernetes.yml
```

3. Add the following two properties in the YAML file, and enter the username and password as per your choice.

YAML

```
DISCOVERY_PORTAL_SERVICE_USERNAME: ${Username}
DISCOVERY_PORTAL_SERVICE_PASSWORD: ${Password}
```

4. Run the following commands.

Bash (Unix Shell)

```
cd ~/privacera/privacera-manager
./privacera-manager.sh update
```

That's it. You are done.



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3.3. Disable KMS Keyadmin Warning

In HDP clusters, Ranger KMS looks for the user and its group in shell. However, this is not required for other environments, hence this can be treated as a warning message. To disable this KMS Keyadmin user warning message, use the following steps:

Bash (Unix Shell)
<code>vi ~/privacera/docker/ranger/kms/conf/log4j.properties</code>
Bash (Unix Shell)
<code>log4j.category.org.apache.hadoop.security=OFF,RollingAppender log4j.additivity.org.apache.hadoop.security=false</code>

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3.4. Upgrade Spark Version from 2.4/2.5 to 3.0

This topic is required for using Privacera Discovery on Databricks.

First, configure Discovery on Databricks, if not already installed. For more information, refer to [Discovery on Databricks](#).

If you want to use Databricks Runtime Versions (DBR) 7.1 and Spark version 3.0.0, then do the following:

1. Run the following commands.

Bash (Unix Shell)

```
cd ~/privacera/privacera-manager  
vi ansible/privacera-docker/roles/templates/discovery/common/discovery-job.json
```

2. Go to line 4 and change the value of *spark_version* as shown below.

YAML

```
"spark_version": "7.1.x-scala2.12"
```

3. Run the following commands.

Bash (Unix Shell)

```
cd ~/privacera/privacera-manager  
./privacera-manager.sh update
```

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