
Micro Focus Security ArcSight Intelligence

Software Version: 6.3.0

User's Guide

Document Release Date: May 2021

Software Release Date: May 2021



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Introduction

With the growing number of threats to monitor in the IT ecosystem, IT organizations have a demanding need to continuously think of better and effective ways to secure their enterprise network. In today's world, employees can access their company's data and applications from within the company, home, and even through personal mobile devices regardless of their geographical location. With IT organizations having to manage their assets both on-premises and in the cloud environment, it has become increasingly challenging for IT security teams to detect any malicious activities carried out by internal users intentionally or accidentally, such as data theft, data exfiltration, and account compromise.

While security information and event management (SIEM) solutions such as Micro Focus ArcSight Enterprise Security Manager (ESM) offer security and compliance monitoring solutions that focus mostly on external threats, IT organizations need solutions that also perform in-depth user behavior monitoring that can detect anomalies and potential threats happening within the organization. Most of the data loss and data breach activities are carried out by users with valid credentials.

ArcSight Intelligence is a user and entity behavioral analytics solution that uses data science and advanced analytics to identify the top risky entities and behaviors occurring in your organization. Using your organization's data, Intelligence first establishes the *normal* behavior for your organizational entities and then using advanced analytics, it identifies the *anomalous* behaviors that constitute potential risks such as compromised accounts, insider threats, or other cyber threats.

Intelligence detects potential threats by performing the following:

- Uses unsupervised machine learning techniques to automatically define user profiles and baselines
- Actively monitors account access patterns and actions on the associated entities against defined baselines to detect anomalies
- Applies a risk score for each entity based on the anomalies detected
- Displays anomalies prioritized by the user risk score in a user-centric, interactive dashboard that helps Security Analysts investigate the highest risks first and take necessary actions immediately

Therefore, Intelligence significantly decreases the number of threats that go undetected and increases a Security Analyst's ability to quickly investigate all detected anomalies.

Managing Users

For users to log in to Intelligence, they must have a valid user ID and password. Only users with relevant roles and permissions can access and work on Intelligence.

The following table lists the available permissions for Intelligence:



Important: For a user to be able to access Intelligence, you must assign the **Access Intelligence** permission, by default, to the user or a role. The other permissions listed here are valid only when a user is assigned the **Access Intelligence** permission.

Permission	Allows you to:
Access Intelligence	<ul style="list-style-type: none"> Log in and explore the Intelligence UI. Access Fusion UI through the Dashboard tab in the Intelligence UI. View PDF and CSV Reports. Access the Tuning API in Swagger and perform some of the API operations there. Access the Analytics API in Swagger and perform some of the API operations there. Access the ArcSight Connector API in Swagger and perform some of the API operations there.
Tune Intelligence Analytics	<ul style="list-style-type: none"> Fine-tune the importance and weights applied to anomalies. Access the Tuning API in Swagger and perform some of the API operations there.
Access Intelligence Search Manager	<ul style="list-style-type: none"> Use the Search Manager tool in the Intelligence UI. Access the Search Manager API in Swagger and perform the API operations there.
View Intelligence Raw Events	<ul style="list-style-type: none"> Explore the raw events in the Intelligence UI. Access the Analytics API in Swagger and perform some of the API operations there.

The following table lists the default roles and the Intelligence permissions associated with the roles.

Role	Permissions
System Admin	<ul style="list-style-type: none">• Tune Intelligence Analytics• Access Intelligence• View Intelligence Raw Events• Access Intelligence Search Manager
Admin	<ul style="list-style-type: none">• Tune Intelligence Analytics• Access Intelligence• View Intelligence Raw Events
Analyst L1	<ul style="list-style-type: none">• Access Intelligence• View Intelligence Raw Events
User	<ul style="list-style-type: none">• Access Intelligence• View Intelligence Raw Events
Guest	<ul style="list-style-type: none">• Access Intelligence• View Intelligence Raw Events

You must create users in Fusion and assign relevant roles and Intelligence permissions for the users to access and work on Intelligence. You can change the permissions of any role except those of the System Admin. You can also create additional roles that reflect your organizational needs.

For more information on creating users and roles, see the [Fusion User Guide](#).

Administering Intelligence for End Users

There are many tasks that you can perform as the Intelligence Administrator to ensure that the Analytics end users have access to the information they need, when they need it.

These tasks include:

- [Modifying Intelligence Analytics Configuration](#)
- [Enabling Windowed Analytics](#)
- [Managing Bots and Bot-like Users](#)
- [Tuning the Analytics](#)
- [Managing Custom Models](#)
- [Managing Alert Templates](#)
- [Deleting Elasticsearch Data](#)

Modifying Intelligence Analytics Configuration

Intelligence runs Analytics according to the Analytics configuration properties you set during deployment. However, you can modify any of the Analytics configurations, such as enabling Analytics to run on newly ingested data and scheduling when you need Analytics to run. You can also run Analytics on demand. For more information on modifying the Intelligence Analytics Configuration and running Analytics on demand, see the *Changing ArcSight Platform Configuration Properties* section and the *Running Analytics on Demand* section respectively in the [Administrator's Guide for ArcSight Platform](#).

Enabling Windowed Analytics

By default, Intelligence is configured to run Analytics in batch mode. When new data is ingested, Analytics is run on both the new and the existing data. Although this process is beneficial when you first deploy Intelligence (for testing and validation purposes), running Analytics on the entirety of your data on an ongoing basis unnecessarily uses system resources. Instead, you can enable Windowed Analytics.

When you enable Windowed Analytics, you configure Intelligence to run Analytics only on newly ingested data as determined by the date of the last Analytics run and the timestamp of the data. Intelligence identifies the data it has already analyzed, and then runs Analytics only on the new data. These results are then aggregated with the existing results to produce updated, current Analytics results for the entire data set.

Windowed Analytics has a positive impact on performance and stability because it allows the system to analyze and aggregate smaller, more consistently sized quantities of data than batch mode, particularly as the total amount of data in your system continues to grow. For more information on enabling Windowed Analytics, see the *Enabling Windowed Analytics* section in the [Administrator's Guide for ArcSight Platform](#).


Managing Bots and Bot-like Users

Internet bots, or Web robots, are software applications that run automated tasks. If your organization has system bot activity, this activity — because of the exceptional speed with which the activity occurs — will likely generate Intelligence Risky Hours in your Analytics. Intelligence identifies those system users it deems to be bots, and strips them from the **Matrix of Anomalies & Violations**.

There is often very real difficulty identifying those system users that are bots and those that are live humans, based on the user activity alone. Your Security team should work with you to identify those system users that are truly bots, and those that are not.

After the true bots are identified, you can configure Intelligence to remove these bots from the Analytics. Similarly, if bot-like users have been stripped from the Analytics but are not bots, you can configure Intelligence to ensure that these users remain in the Analytics.

To manage bots and bot-like users:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Entity Tags** section.
4. Click the row where **PUT /{tid}/entity_tags/{ds}/{did}/{type}/{identifier}/{tag}** is displayed.
5. Click **Try it Out!**
6. Under **Parameters**, do the following:
 - For the **tid** parameter, specify the tenant ID.
 - For the **ds** parameter, specify the data type.
 - For the **did** parameter, specify the data identifier.
 - For the **type** parameter, specify the tag type.
 - For the **identifier** parameter, specify the tag key.
 - For the **tag** parameter, specify the tag value.
7. In the text box provided for the **body** parameter, specify the value for the desired fields.
8. Click **Execute** to enable the new entity tag.

Tuning the Analytics

After you have had the opportunity to explore the Intelligence Analytics and investigate the leads identified in the Intelligence Dashboard, you may want to fine-tune the importance applied by the Analytics to the events in your source data.


For example, perhaps due to the nature of your business, your employees have never — not once — accessed the corporate information systems outside of the standard 9:00 am to 5:00

pm work hours. In this scenario, should an employee one day access your corporate information system outside of the standard work hours, the potential for that access to be a risk to your organization could be much more significant than it would be in an organization in which employees routinely access the corporate systems at any hour. As a result, you might want to increase the importance of the group of anomalies in the anomaly family, **User worked in an unusual hour**. When you increase the importance of this anomaly family, anomalies of this type that are identified in the Analytics will have a higher risk score than they would have using the default importance level.

You fine-tune the importance of individual anomalies, or grouped anomaly families, on the **Anomalies** page of the Intelligence user interface.

To tune Analytics:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.

2. Click **Settings** , then select **Anomalies** in the drop-down list.
The **Anomalies** page opens, listing all of the anomalies triggered on your source data by the Intelligence models. Each anomaly appears with the following information: the Intelligence model **ID**, as well as the model **Data Type**, **Threat Type**, and **Family Type**.
3. To change the importance of an anomaly **Family Type**, do the following:
 - At the top of the **Anomalies** page, click in the **Type to filter by tag or keyword** field.
A new dialog box opens, displaying the **Data Type**, **Threat Type**, and **Family Type** for the anomalies identified.
4. Select a **Data Type**, **Threat Type**, or **Family Type**.
Following the example discussed above, under **Family Type**, you would select the **User worked in an unusual hour** anomaly family type.

The anomalies of that type triggered by the Analytics are now isolated in the **Anomalies** page.

5. Select an anomaly, and then click **Tuning**.

INTERSET Overall Risk Entities Explore

Type to filter by tag or keyword

Showing anomalies and violations matching: User worked in an unusual hour - Common

Anomalies ?

1 anomaly selected.

<input checked="" type="checkbox"/>	ID	SAMPLE ANOMALY TEXT
<input checked="" type="checkbox"/>	2	[user1] worked in this hour, which was very unusual based on past activity. Common Suspicious Activity User worked in an unusual hour - Common

- In the **Anomaly Tuning** dialog box, click one of the available values on the horizontal rule. Continuing with the example above, you would click the **High** value on the horizontal rule to increase the importance of these anomalies to the highest amount available.



Important: The **Default Weight** of the anomaly is indicated at the top of the **Anomaly Tuning** dialog box, with a lock symbol. Intelligence strongly recommends that you avoid changing any anomaly weight unless instructed to do so by Micro Focus Intelligence Support.

- Click **Apply**.
- Repeat Steps 5 through 7 for the remaining anomalies.

The next time Analytics is run, the new **Importance** value will be applied to the anomalies.



Tip: To return the anomaly importance to the default setting at any time, select the anomaly, click **Tuning**, and then in the **Anomaly Tuning** dialog box, click **Reset to Default**.

Managing Custom Models

You can import a custom model into Intelligence by registering it through the API. After registering models, you can also manage them.

Before you proceed, ensure that you have met the prerequisites. For more information, see the *Before You Proceed* section in *Enabling Custom Model Support* in the [Administrator's Guide for ArcSight Platform](#).

This section includes the following tasks:

- [Registering a Custom Model](#)
- [Activating or Deactivating a Custom Model](#)
- [Viewing Custom Models](#)

- [Exporting a Custom Model](#)
- [Tuning a Custom Model](#)

Registering a Custom Model

You must register a custom model with Intelligence before it can be used in Intelligence analytics. Registering provides a way to import the model's PMML file and provide other metadata associated with the model.


While registering a custom model, you can either activate it so that it can be used in Intelligence analytics or deactivate it so that it is not considered for Intelligence Analytics. You can also [activate or deactivate a model at any point after registration](#).



Important:

- After you register a custom model, you cannot delete it. You can only deactivate the registered model.
- After you register a custom model, you can update only the **IsActive** parameter of the model which activates or deactivates the model. You cannot update other metadata of the model, instead, you can register the model again with the new metadata.

To register a custom model:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Custom Models** section.
4. Click the row where **POST /{tid}/byom/register** is displayed.
5. Click **Try it Out!**.
6. Add the parameter values. Refer to the following table when adding the parameter values.

Parameter	Data Type	Considerations
tid	VARCHAR(3)	Specify the tenant ID.
file	LONG VARBINARY (32000000) [32Mb]	Upload the PMML file. The file size must not exceed 32mb.
modelName	VARCHAR(255)	Specify a unique name for the model, one that is not the same as the name in the PMML file.


Parameter	Data Type	Considerations
ds	VARCHAR(3)	Specify the data type on which you have trained your model.
did	TINYINT	Specify the data identifier.
timeBucket	VARCHAR(100)	Specify hourly, daily, weekly, or monthly.
primEntitytype	VARCHAR(255)	Specify the primary entity type. Supported value is <i>usr</i> , which indicates user.
secEntitytype	VARCHAR(255)	Specify the secondary entity type. The following are the supported values: <ul style="list-style-type: none"> • <i>srv</i>, which indicates server. • <i>web</i>, which indicates website. • <i>shr</i>, which indicates share. • <i>res</i>, which indicates resource. • <i>ip</i>, which indicates IP (applicable to the Active Directory and VPN data types). • <i>map</i>, which indicates map (applicable to the Active Directory and VPN data types). • <i>cty</i>, which indicates city. • <i>uas</i>, which indicates user agent string (applicable to the Web Proxy data type). • <i>pro</i>, which indicates the project used in repository.
primEntityCol	VARCHAR(255)	Specify the primary entity column.
secEntityCol	VARCHAR(255)	Specify the secondary entity column.
isActive	BOOLEAN	Specify true if you need to activate your model or false if you need to deactivate it.
targetClass	VARCHAR(255)	Specify the target class to filter the events that will be considered for determining anomalies.

7. Click **Execute**. The model is registered. An anomaly type and an alert template are also automatically created for the model.

Activating or Deactivating a Custom Model

After you register a custom model, you can update the **IsActive** parameter of the model which activates or deactivates the model. When you activate a model, it is used in Intelligence analytics. When you deactivate a model, it is not considered for Intelligence analytics.

To activate or deactivate a custom model:


1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Custom Models** section.
4. Click the row where **PUT /{tid}/byom/{ds}/{did}/{timeBucket}{modelName}** is displayed.
5. Click **Try it Out!**.
6. Under **Parameters**, do the following:
 - For the **tid** parameter, specify the tenant ID of the registered model.
 - For the **modelName** parameter, specify the model name of the registered model.
 - For the **ds** parameter, specify the data type of the registered model.
 - For the **did** parameter, specify the data identifier of the registered model.
 - For the **timeBucket** parameter, specify the time bucket of the registered model.
 - Modify the **isActive** parameter to **true** for activation or **false** for deactivation.
7. Click **Execute**. The model is activated or deactivated based on your selection.

Viewing Custom Models

You can view the custom models registered with Intelligence. There are two scenarios for viewing custom models:

- You can view the metadata of a specific custom model of a tenant.
- You can view the metadata of all the custom models of a tenant.

To view custom models:


1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Custom Models** section.

4. (Conditional) To view the metadata of a specific custom model, do the following:
 - a. Click the row where **GET /{tid}/byom/{modelName}** is displayed.
 - b. Click **Try it Out!**.
 - c. Under **Parameters**, specify the tenant ID for **tid** and the model name for **modelName**.
 - d. Click **Execute**. The metadata of the model you specified are displayed.
5. (Conditional) To view the metadata of all the custom models of a tenant, do the following:
 - a. Click the row where **GET /{tid}/byom** is displayed.
 - b. Click **Try it Out!**.
 - c. Under **Parameters**, specify the tenant ID for **tid**.
 - d. Click **Execute**. The metadata of all the registered models in the tenant you specified are displayed.

Exporting a Custom Model

For a custom model that is registered with Intelligence, You can export the PMML file of a custom model registered with Intelligence. When you export a custom model, the PMML file of the model gets downloaded in the XML format to your web browser.

To export a custom model:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Custom Models** section.
4. Click the row where **GET /{tid}/byom/{ds}/{did}/{timeBucket}/{modelName}/export** is displayed.
5. Click **Try it Out!**.
6. Under **Parameters**, do the following:
 - For the **tid** parameter, specify the tenant ID of the registered model.
 - For the **modelName** parameter, specify the model name of the registered model.
 - For the **ds** parameter, specify the data type of the registered model.

- For the **did** parameter, specify the data identifier of the registered model.
 - For the **timeBucket** parameter, specify the time bucket of the registered model.
7. Click **Execute**. The PMML file associated with the model is exported in the XML format to your web browser.


Tuning a Custom Model

For a registered custom model, you can tune it, that is, you can set a probability threshold for the model. When the model is used in Intelligence Analytics, it provides probability for each incoming event. Only if the probability is more than the probability threshold set for that model, the corresponding event is considered for determining anomalies. If you do not set the probability threshold, the default value of 0.5 is considered. You can set the probability threshold through the model's parameter name.

Apart from tuning a custom model, you can also fine-tune the importance and weights applied to anomalies. For more information, see [Tuning the Analytics](#).

To tune a custom model:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.

2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Parameters** section.
4. (Conditional) If the parameter name for a model does not exist, do the following:
 - a. Click the row where **POST /{tid}/parameters** is displayed.
 - b. Click **Try it Out!**.
 - c. Under **Parameters**, specify the tenant ID for **tid**.
 - d. In the text box provided for the **body** parameter, specify the tenant ID, the parameter name, and the value you want to set as the probability threshold for the model. The parameter name must be in this format: **BYOM_<model_name>** where **model_name** is the model name for which you want to create the parameter name. For example, if your model name is xyz, then the parameter name must be **BYOM_xyz**.
 - e. Click **Execute**. The parameter name is created for the model and its probability threshold is set.

5. (Conditional) To tune a specific custom model, do the following:
 - a. Click the row where **PUT /{tid}/parameters/{name}** is displayed.
 - b. Click **Try it Out!**.
 - c. Under **Parameters**, specify the tenant ID for **tid** and the parameter name for **name**.
The parameter name must be in this format: **BYOM_<model_name>** where **model_name** is the model name for which you want to set or update the probability threshold.
For example, if your model name is xyz, then the parameter name is BYOM_xyz.
 - d. In the text box provided for the **body** parameter, specify the tenant ID, the parameter name, and the value you want to set as the probability threshold for the model.
 - e. Click **Execute**. The probability threshold is set for the model.
6. (Conditional) To view the probability thresholds of all the models of a tenant, do the following:
 - a. Click the row where **GET /{tid}/parameters/** is displayed.
 - b. Click **Try it Out!**.
 - c. Under **Parameters**, specify the tenant ID for **tid**.
 - d. Click **Execute**. The probability thresholds of all the models of the tenant are displayed.
7. (Conditional) To view the probability threshold of a specific custom model, do the following:
 - a. Click the row where **GET /{tid}/parameters/{name}** is displayed.
 - b. Click **Try it Out!**.
 - c. Under **Parameters**, specify the tenant ID for **tid** and the parameter name for **name**.
The parameter name must be in this format: **BYOM_<model_name>** where **model_name** is the model name for which you want to set or update the probability threshold.
For example, if your model name is xyz, then the parameter name is BYOM_xyz.
 - d. Click **Execute**. The probability threshold of the model is displayed.
8. (Conditional) To delete a model's parameter name, do the following:
 - a. Click the row where **DELETE /{tid}/parameters/{name}** is displayed.
 - b. Click **Try it Out!**.
 - c. Under **Parameters**, specify the tenant ID for **tid** and the parameter name for **name**.
The parameter name must be in this format: **BYOM_<model_name>** where **model_name** is the model name whose parameter you want to delete. For example, if your model name is xyz, then the parameter name is BYOM_xyz.
 - d. Click **Execute**. The parameter name of the model is deleted.

Managing Alert Templates


An alert template provides a way to describe an anomaly in the Intelligence UI by using the textual information provided as part of the alert template's meta data. It also helps in associating an anomaly with all the events that triggered it. When you register a model with Intelligence, an anomaly type and an alert template are automatically created for the model. You can customize the created alert templates to suit your needs, create new alert templates, and so on. This section provides information on managing the alert templates.

Tasks include:

- [Creating an Alert Template](#)
- [Updating an Alert Template](#)
- [Viewing an Alert Template](#)
- [Deleting an Alert Template](#)

Creating an Alert Template


To create an Alert Template:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Alert Templates** section.
4. Click the row where **POST /{tid}/alert_templates** is displayed.
5. Click **Try it Out!**.
6. Under **Parameters**, specify the tenant ID for **tid**.
7. In the text box provided for the **body** parameter, specify the value for each field.
8. Click **Execute**. The alert template for the tenant is created.

Updating an Alert Template


To update an alert template:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.

2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Alert Templates** section.
4. Click the row where **PUT /{tid}/alert_templates/{anomalyType}/{did}** is displayed.
5. Click **Try it Out!**.
6. Under **Parameters**, specify the tenant ID for **tid**, the anomaly type for **anomalyType**, and the data identifier for **did**.
7. In the text box provided for the **body** parameter, specify the value for the desired fields.
8. Click **Execute**. The alert template for the specified parameters is updated.


Viewing an Alert Template

To view an alert template:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Alert Templates** section.
4. Click the row where **GET /{tid}/alert_templates/{anomalyType}/{did}** is displayed.
5. Click **Try it Out!**.
6. Under **Parameters**, specify the tenant ID for **tid**, the anomaly type for **anomalyType**, and the data identifier for **did**.
7. Click **Execute**. The alert template details for the specified parameters are displayed.

Deleting an Alert Template

To delete an alert template:

1. In a web browser, log in to Intelligence as a user with the **Tune Intelligence Analytics** permission.
2. Click **Settings** , then select **Tuning API** in the drop-down list to open the API in Swagger.
3. Expand the **Alert Templates** section.

4. Click the row where **DELETE /{tid}/alert_templates/{anomalyType}/{did}** is displayed.
5. Click **Try it Out!**.
6. Under **Parameters**, specify the tenant ID for **tid** the anomaly type for **anomalyType**, and the data identifier for **did**.
7. Click **Execute**. The alert template for the specified parameters is deleted.

Deleting Elasticsearch Data

To free up the disk space of Elasticsearch, ensure that you delete the Elasticsearch indices that are more than 90 days old. You can delete either the raw events or the analytics results data of the indices. Or, you can delete both. Accordingly, data up to 90 days old is displayed in the Intelligence dashboard. For more information, contact Micro Focus Customer Support at <https://softwaresupport.softwaregrp.com/>.

Understanding Users and Other Entities in Intelligence

Intelligence uses advanced analytical models to measure behavior and to quantify risks. These models range from cluster models, which group together users and assets based on specific behavioral vectors, to volumetric anomaly models, rare activity models, and other higher-order models. Many different behavioral vectors are tracked and measured, which reduces the ability for malicious users or compromised accounts to "fake" normal behavior.

The Intelligence models are true advanced behavioral models: they don't rely on binary rules or arbitrary thresholds. Rather, these models measure the probability that an observed action is truly anomalous and represents a true potential risk. Using this type of approach leads to a continuous, prioritized list of risks, and helps improve the efficiency of IT security teams and their tools.

The use of Intelligence machine learning models means that you are not required to perform any additional configuration for the analytical models to execute. Through observation, Intelligence learns what constitutes normal behavior for the entities within your organization, and immediately begins to quantify abnormal behavior. There are no thresholds to set, no rules to author, and no configurations to undertake.

Intelligence displays the results of Intelligence Analytics in an interface that provides at-a-glance actionable information on current risk, and flexible multi-entity historical data exploration.

Users and Other Entities

Entities are the foundation of Intelligence Analytics. Entities are the objects involved in behaviors. For example, if a user Philip accesses Fileshare A, then the event contains, at minimum, one behavior, and two entities. Philip's account and Fileshare A are the two entities, and the access is the behavior.

- [Behaviors](#)
- [Accumulating Risk](#)

Behaviors

Behaviors are often thought of as single events. In the previous example, the access can be captured in one single event. If that event happens to be a malicious action, finding that one malicious event is virtually impossible. This is because there can be billions of these events, and the overwhelming majority of events are perfectly legitimate and normal behaviors.

Accumulating Risk

As behaviors occur, Intelligence processes these events and calculates that which is normal from dozens of behavioral perspectives. For example, Intelligence will count how many times Philip accesses Fileshare A each hour, how often his authentication attempts fail on Fileshare A, at what time of day, or which day of week he is normally active, etc.

These metrics are all calculated using unsupervised machine learning. This means that the system identifies what is normal, rather than organizational security practitioners setting thresholds which may be reasonable for some, but completely inappropriate for others.

As new observed behaviors occur, Intelligence determines whether the behaviors are normal, or unusual. When unusual, Intelligence calculates how unusual the behavior is. The more unusual the behavior, the higher the significance of the anomaly. When anomalies are identified, these anomalies influence the risk score of the entities that are involved in the behavior. The more an entity is involved in significant anomalies, the higher that entity's risk score. For example, if Philip accesses Fileshare A 100 times in an hour, and accesses 100 other fileshares that he's never accessed before, his risk score will spike, because the behavior simulates internal recon or lateral movement. In addition, because Fileshare A was involved in a significant set of anomalies, its risk score will also spike.

This comprehensive reporting allows practitioners to explore the anomalies from different perspectives. In cases where multiple user accounts are accessing Fileshare A in an abnormal

manner, the user behavior may not appear abnormal and therefore the risk scores may not spike significantly, however, Fileshare A would have a significant spike in its risk score, providing a signal to security practitioners that Fileshare A requires attention.

As entities are involved in risky behaviors, their risk scores increase. The riskier the entity's behavior the more the risk increases. When the entity is not engaging in any activity, the risk score decays downward towards zero; as a result, when the entity goes a long time without registering any suspicious activities, its risk score will trend toward zero.

Understanding the Intelligence Dashboard

The Intelligence Dashboard is a user-centric, interactive dashboard that provides information on the top risky entities and behaviors occurring in your organization. It displays the Intelligence Analytics results, allows you to visually explore the results and the underlying raw data, and take appropriate actions immediately. With the help of the **Overall Risk** page, you can view the overall risk status of your organization. With the help of the **Entities** page, you can explore the risky entities grouped by their type. With the help of the **Explore** page, you can determine the types of risky activities occurring within your organization. With the help of the Event Viewer, you can explore the events that contributed to the risky activities.

- [Exploring the Overall Risk Page](#)
- [Exploring the Entities Page](#)
- [Exploring the Explore Page](#)
- [Exploring Raw Events](#)

Exploring the Overall Risk Page

When you first log in to Intelligence, you are taken to the **Overall Risk** page. This page allows you to see, at a glance, the overall risk status of your organization. For example, in the following screen shot you immediately see:



- Over 1 million events were analyzed
- About 145 thousand anomalies and violations were found
- 9 active risky entities were identified
- The overall risk is high and increasing
- The threat of Credential Access is contributing 25% to the overall risk
- The various streams of the graph indicate the potential threat types involved
- The types of entities involved and their risk counts
- The top five risky users

When you click an entity type, the **Entities** page opens, where additional information for the selected entity type is displayed.

When you click one of the **Top 5 Riskiest Users**, the **Explore** page opens, with the selected user's name applied to the **anomalies and violations** filter.

Exploring the Entities Page

The **Entities** page provides the entity risk scores, sorts the entities and their risk scores in descending order, and then also provides the trending information, the entity name, the potential threat type, and the most relevant anomaly identified by Intelligence. Potential threat types are determined by the most relevant risky activity in the system.

At the top of the **Entities** page, you can use the different entity tabs to explore the riskiest entities grouped by their type, such as **Users**, **Projects** or **Controllers**, for example. Tabs in bold text represent entities that are present in the data. Typically, you will explore your list of users first.



Note: You may see a difference between the number of entities that exist in your data, and the number of entities that appear in the Intelligence Analytics user interface. This is because:

- The entities that appear in the **Entities** page include only
 - Those entities with a current risk score greater than zero (0); and
 - Those entities that have a current risk score of zero (0), but for which anomalies were identified during the selected time period.
- Entities identified as BOTs do not appear in the user interface.

Potential threat types are determined by the riskiest activity identified by Intelligence for that entity. For example, if the riskiest alert results from behaviors in which a user account is accessing unusual locations or assets, the potential threat type will appear as **Potential Lateral Movement**, and a summarized description of the anomaly will be shown on the right of the page. This provides immediate context for security practitioners, and enables them to more quickly determine whether further investigation is required.

User-Defined Tags

On the **Entities** page, you can associate **User-defined tags** with individual entities or many entities at the same time. You can also create new tags and delete tags you don't need any more.



Important: Do not use **bot**, **forcebot**, or **notbot** as names for a **User-defined tag**.

To manage tags:

1. Choose one or more entities from the **Top Risky Entities** list by selecting the checkbox(es) in the left-most column.

2. Click the **Tag Management** icon ().

The **Tag Management** dialog shows the tags associated with the selected entities. Tags that have checkmarks are associated with all the selected entities. Tags with a stroke through the middle of the checkbox are associated with one or more (but not all) of the selected entities. Tags with no checkmarks are not associated with any of the selected entities.

3. Do one of the following:
 - To associate tags with the selected entities, select the checkbox next to one or more tags and click **Apply**.
 - To remove the association between a tag and the selected entities, clear the checkbox next to the tag and click **Apply**. The **Total entities tagged** field is updated to show the number of entities associated with the tag.
 - To create a new tag, click **Create a new tag?**. Enter the new name in the **tag-name** field, and click **Create**. The new tag is created and associated with the selected entities.
 - To rename a tag, select the tag by clicking its name, then click the **tag-name** field and type the new name. Click **Save Changes** to save the new name.
 - To delete a tag, select the tag by clicking its name, then click **Delete**. Click **Yes** to confirm the deletion.

Exploring the Explore Page

When you select an entity, the **Explore** page opens, where the entity's name is filtered. Here, all **Anomalies & Violations** associated with that entity are shown within the established time range. To find or filter another entity, use the search filter at the top of the **Explore** page.

The **Explore** page information allows you to use to determine the types of risky activities that are occurring within your organization. The **Explore** page features the **Matrix of Anomalies & Violations**, the **Contribution to Risky by Threat** graph, and the **Top Risky Users** and **Anomalies & Violations** panels, which are displayed by default.

- [Matrix of Anomalies & Violations](#)
- [Contribution to Risk by Threat](#)
- [Applying Filters to Entity and Anomaly Data](#)
- [Anomalies & Violations Panel](#)
- [Anomaly and Violation Flags](#)
- [Adding Comments](#)

- [Entity Details Panel](#)
- [Authentications Panel](#)
- [Most Accessed Panel](#)
- [Top Risky Panel](#)
- [Top Users to Trigger Violations Panel](#)

Matrix of Anomalies & Violations

The **Matrix of Anomalies & Violations** is a visual representation of the **Anomalies & Violations** in your data set, displayed as squares, color-coded to reflect their severity.

You can change the time window for the **Matrix of Anomalies & Violations** to reflect a time period of specific interest. You can choose the following time periods: **24 Hours, 7 Days, 30 Days, Year**, or you can set the time period to include **All Data**. To zoom in on a specific area of the matrix, click the + icon and then click and drag your cursor across the area of the matrix where you want to zoom in. To zoom out, click the - icon, or select one of the predefined time windows. To pan across the time window, click and drag your cursor across the matrix (zoom must not be enabled). As you zoom or pan, all aspects of the user interface update dynamically and accordingly.

You can use the slider to the left of the matrix to filter alerts based on their risk level. This enables you to reduce the number of alerts displayed in a gradual manner, and as appropriate. You can also click one of the **Risk** squares below the graph to set the slider filter to that risk level. For example, if you wanted to view **Medium Risk** and above, you would click the yellow **Medium Risk** square. This would filter out all low risk alerts, as shown in the example below.

In the **Matrix of Anomalies & Violations** timeline, you can filter the analytics on the associated entities displayed in **Anomalies & Violations**.

Periods of Risky Activity features an **Overall Risk Trend** which displays a baseline within the graph. When you add an entity filter to the **Periods of Risky Activity** graph, a new **Risk Trend** line based on that entity is created. This custom **Risk Trend** displays a baseline based on that entity's activity. You can have multiple **Risk Trends** displayed at once. You can also hide and show the **Risk Trends** by selecting the name of the **Risk Trend**.

Contribution to Risk by Threat

In **Matrix of Anomalies & Violations** is the **Contribution to Risk by Threat** graph. This graph organizes and displays potential threat types by their percentage of the overall risks. You can filter the graph by threat type by selecting the threat type name or square in the graph. For

example, if you wanted to highlight the percentage that **Potential Internal Recon** represents in the graph, you would select the **Potential Internal Recon** name or square underneath the graph. To reveal/hide the **Contribution to Risk by Threat** graph, click the **Contribution to Risk by Threat** heading.

Applying Filters to Entity and Anomaly Data

At the top of the **Entities** and **Explore** pages is a field where you can select filters to apply to the data that is displayed.

- On the **Entities** page, the filter field is labeled **Type to filter entities by name, tag, or type...**
- On the **Explore** page, the filter field is labeled **Type to filter anomalies and violations...**

From the filter field you can choose a filter from the dropdown menu, or you can search for filters by typing the filter name. Depending on your data set, you can apply filters on many aspects of your data, including **Users, Entity Types, Projects, Controllers, Flags, and User-defined tags**.

When you select filters, the filters appear in a list under the filter field:

- On the **Entities** page, the filter list is labeled **Showing entities matching:**
- On the **Explore** page, the filter list is labeled **Showing anomalies and violations matching:**

To disable a filter:


- In the filter list, hover your cursor over the filter name and then click the checkbox on the left. The filter is still displayed but is no longer applied to the data. Repeat this process to enable a disabled filter.

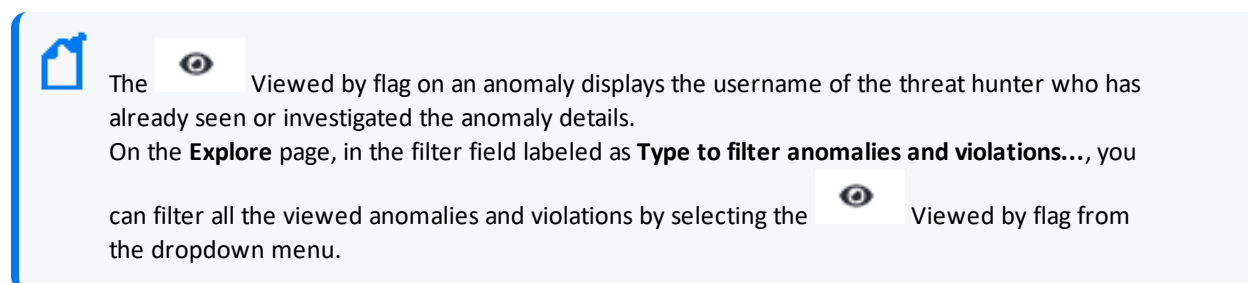
To remove a filter from the filter list:



- In the filter list, hover your cursor over the filter name and click the **X** on the right. The filter is removed from the list, but is still available to use if you select it again.

Anomalies & Violations Panel

The **Anomalies & Violations** panel displays triggered activities in the form of a list. Each

Anomaly or **Violation** has a time stamp, risk color, description, potential threat type,  Viewed by flag, and associated entities attached to it. The **Anomalies & Violations** list can be sorted by **Time** (default) or by **Risk**.



The  Viewed by flag on an anomaly displays the username of the threat hunter who has already seen or investigated the anomaly details. On the **Explore** page, in the filter field labeled as **Type to filter anomalies and violations...**, you can filter all the viewed anomalies and violations by selecting the  Viewed by flag from the dropdown menu.

To sort the list:

- At the top left of the **Anomalies & Violations** panel, click the dropdown menu and then select **Sort by time** or **Sort by risk**.

To apply filters based on an **Anomaly** or **Violation**:

- Below the description of the **Anomalies** or **Violation**, click the tags you wish to apply to the filter.

To disable a filter:

- At the top left of the page, under **Type to filter anomalies and violations...**, hover your cursor over the filter name and then click the checkbox on the left. Repeat this process to enable a disabled filter.

To delete a filter:

- At the top left of the page, under **Type to filter anomalies and violations...**, hover your cursor over the filter name and click the **X** on the right.

When you click in an **Anomaly** or **Violation** box, a visualization is provided to enhance context and includes a description of the activity. From here you can choose to explore the raw events that triggered the **Anomaly** or **Violation**, For more information on exploring raw events, please see the **Exploring Raw Events** section.

Anomaly and Violation Flags

Intelligence provides five (5) possible flags that you can use to characterize, or mark individual anomalies and violations within the Analytics. These five flags are represented by the following

symbols:



These five flags, or symbols, have no established definitions; as a result, your organization can determine the appropriate meaning for each symbol within the context of the anomalies and violations that you want to highlight in your data.

For example, you may decide to use one of these symbols to identify anomalies and violations resulting from failed access or log in attempts. You choose which of the flags you will use for this purpose and then, in the **Anomalies & Violations** panel, you mark the individual anomalies accordingly. When you have finished marking the anomalies and violations, you have only to select the flag as a filter to produce a list of all failed access and log in attempts.

To create flags:


1. In the **Anomalies & Violations** panel, click in an anomaly for which you want to set a flag. The anomaly opens, displaying the flags in the upper left corner.
2. Click on a flag symbol to enable it for the anomaly.



Tips:

- When a flag is enabled for an anomaly or violation, the symbol changes from light to dark.
- When you close the anomaly and return to the list of anomalies and violations, the enabled flag appears within the anomaly and provides a visual cue.

APR 18, 5 - 6 PM (A) It was very unusual that **lauralee.lecuyer** failed to log in (with event code 4776) to **SOLEIL.interset.com**, having only had 1 day with failed login attempts.
Credential Access Authentications Failed Authentication lauralee.lecuyer SOLEIL.interset.com

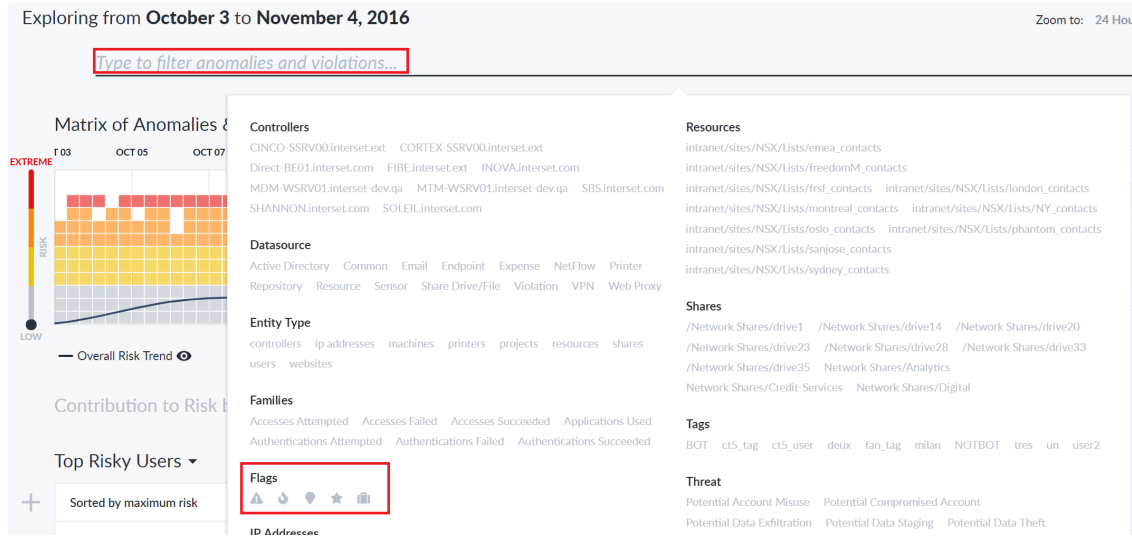
APR 18, 5 - 6 PM (A)  It was very unusual that **lauralee.lecuyer** failed to log in (with event code 4776), having only had 1 day with failed login attempts.
Credential Access Rare Authentication Methods Used Authentication lauralee.lecuyer

APR 18, 5 - 6 PM (A) It was very unusual that **katy.arnold** had failed access attempts on shared drive **Network Shares/Installs/Product** (with event code 4656), having only had 1 day with failed attempts to this shared drive.
Initial Access Accesses Failed Share Drive/File katy.arnold Network Shares/Installs/Product

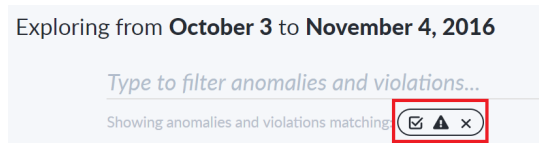
APR 18, 5 - 6 PM (A) It was very unusual that **katy.arnold** had failed access attempts to a shared drive (with event code 4656), having only had 2 days with failed attempts.
Discovery Rare Entities Accessed Share Drive/File katy.arnold

- When you hover over the flag, the date and time it was created, and the account that created it, are displayed.

3. To view all the anomalies and violations flagged with a specific symbol, click in the **Type to filter anomalies and violations** field.
4. In the filter drop-down menu, under **Flags**, select the flag on which you want to filter the anomalies and violations.



The Explore page now displays only the anomalies and violations that match the defined filter, which is displayed directly below the **Type to filter anomalies and violations** field.



✓ Tips:

- To return to the unfiltered view of anomalies and violations, click the **X** beside the filter.
- To remove a flag from an anomaly or violation, open the individual anomaly or violation, and then click the flag to disable it.

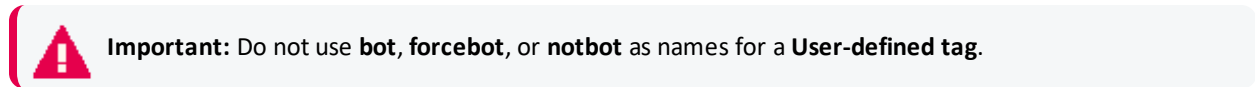
Adding Comments

Based on your investigation of an anomaly or a violation, you may want to add your observations so that other members of your team can leverage the information you have gathered so far. You can add a comment by clicking on an item in the Anomalies & Violations panel, and typing in the **Notes** field.


Entity Details Panel

When you select an entity, an **Entity Details** panel containing additional information on the entity you clicked opens. If you selected a **User** entity, for example, the **Entity Details** panel might display information regarding the **Most Recent Risk Score**, **Maximum Risk** score within the time frame, Read-only tags, User-defined tags, Typical working hours, and Typical weekly activity. To download a PDF report on the entity, click the PDF icon beside the entity name.


From the **Entity Details** you can create and apply **User-defined tags**.

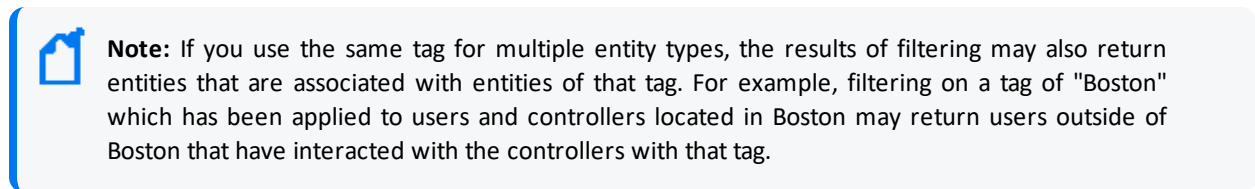


To create a tag:

1. On the right side of **User-defined tags**, click the  icon. A + appears below the **User-defined tags** section.
2. Click the +.
3. In the dialog box, enter the name of the tag you want to create.
4. On the right side of **User-defined tags**, click **done** to save the tag.

To delete a tag:

1. On the right side of **User-defined tags**, click the  icon.
2. Click a tag to highlight it.
3. Press your **Delete** or **Backspace** key to delete the tag.
4. On the right side of **User-defined tags**, click **done** to save your changes.



Authentications Panel

The **Authentications** panel displays the total number of successful and failed authentication attempts, sorted by entities with the most failed attempts in descending order.

To add the **Authentications** panel:

- Click the + symbol and then select **Authentications**.

To remove the panel:

- Click the **X** symbol at the top right of the panel.

Most Accessed Panel

On the **Explore** page, you can view the **Most Accessed** entities of your whole dataset, or of specific entities.

To add a **Most Accessed** panel:

- At the bottom of the page beside the leftmost tab, click the **+** symbol, select **Most Accessed** and then select a filter.

Each **Most Accessed** filter displays a list of entities that have been interacted with, sorted in descending order. You can further explore the **Most Accessed** entities by selecting an entity to open the **Entity Details** panel.

To remove the panel:

- Click the **X** symbol at the top right of the panel.

Top Risky Panel

On the **Explore** page, the **Top Risky** panel provides a list of the top risky entities by type, displaying the **Top Risky Users** by default. You can change the filter to display a different entity type by clicking **Top Risky Users**, selecting **Top Risky**, and then selecting an entity type. The **Top Risky** list is sorted by maximum risk.



Note: You may see a difference between the number of entities that exist in your data, and the number of entities that appear in the Intelligence Analytics user interface. This is because:

- Only entities with anomalies appear in the Top Risky list; entities without identified anomalies within the selected time range are filtered out. In addition, entities identified as BOTs do not appear in the user interface.
- When you select the all data timeframe, all entities that have ever had at least one identified anomaly will be shown.

To view anomalies information for a particular user in the **Top Risky Panel**, apply the user tag to the filter. Do one of the following to apply filters based on a risky user:

- Hover your cursor over the user tag and press **ctrl + tab**.
- Right-click the user tag and select **Open Link in New Tab**.

To add a new **Top Risky** panel:

- At the bottom of the page beside the leftmost panel, click the **+** symbol, select **Top Risky** and then select an entity type.

You can further explore the **Top Risky** entities by clicking an entity box to open the **Entity Details** panel.

To remove the panel:

- Click the **X** symbol at the top right of the panel.

Top Users To Trigger Violations Panel

On the **Explore Page**, you can view the **Top Users To Trigger Violations**. This panel provides a table list of the top users who have triggered Workflow violations, sorted in descending order.

To add the **Top Users To Trigger Violations** panel:

- At the bottom of the page beside the leftmost panel, click the **+** symbol and then select **Top Users To Trigger Violations**.

To remove the panel:

- Click the **X** symbol at the top right of the panel.

Exploring Raw Events



Important: You must have the **View Intelligence Raw Events** permission to explore raw events.

When you click an item in the **Anomalies & Violations** panel, a dialog box appears that provides additional context about the anomaly or violation. To see the events that triggered the risky activity, in the top right of the dialog box, click **View Events** -> **Explore Raw Events**. This launches a pre-populated query in Event Viewer, where you can further explore the events.

Event Viewer provides security practitioners with a quick way to explore the context around the raw events that triggered the anomaly. This can include expanding the time range, changing filter options, or any other grid oriented data.



Note: When Using the **Event** option to Explore Raw Events through the **Event Viewer**, you can build your own custom query and Save it. Click **Type to filter raw events** to create queries through the **Query Editor**. You can also edit an existing query and save it. You can either click **SAVE** or use the **Ctrl/command + s** keyboard shortcut to save your query. To enable saving of queries, contact Micro Focus Customer Support at <https://softwaresupport.softwaregrp.com/>, as this involves modifications to investigator.yml.

If you have deployed Intelligence with Recon, then you can gain additional insight into the events and identify hidden security threats. To launch Recon, click **Search in Recon** in the top

right of the dialog box. This launches Recon in https://<cdf_masternode_hostname>/re where you can further explore the events.

Viewing Reports

You can view reports that provide you with further insight into risky entities and their behaviors. With the help of reports, you can investigate the Intelligence Analytics results and take appropriate action immediately.

- [CSV Reports](#)
- [PDF Reports](#)

CSV Reports

CSV reports provide you with the raw data of the **Anomalies & Violations**. A CSV Report can provide you with further insight on how an entity is behaving. For example, a user entity CSV Report may contain information regarding country of origin, actions taken, username and object type. To download a CSV report, click on the **Events** option and then, click on the **CSV symbol** next to the date, this will automatically download the CSV Report. The CSV Report can contain up to 10,000 records.

PDF Reports

After an investigation has sufficient evidence to warrant an escalation, information can be exported to a PDF format so that incident response can begin immediately. To generate a PDF report for your organizational risk, on the **Overall Risk** page, next to the date at the top of the page, click the PDF icon. To generate a report for a user entity, from the **Explore** page, click a user entity name to open the **Entity Details** panel, and then click the PDF icon beside the entity name to download a PDF report. With this report, you can quickly share the findings of the investigation without having to manually create any additional documents. The report helps provide an understanding of what constitutes a risky and an abnormal behavior for any entity.

Integrating with Fusion

From the Intelligence UI, click the **Dashboard** tab to navigate to the Fusion UI.

In the Fusion UI, you can add the **Entity Count Overview** widget to view the count of entities analyzed by Intelligence. On clicking an entity in the widget, you are redirected to the **Entities** page in the Intelligence UI.

When you click the **INSIGHTS** option in the left pane of the Fusion UI, you are redirected to the **Overall Risk** page in the Intelligence UI.



Note: If you have deployed Intelligence with Recon, then, when you click **INSIGHTS -> ENTITIES AT RISK** in the left pane of the Fusion UI, you are redirected to the **Overall Risk** page in the Intelligence UI.

Advanced Features

In the Intelligence user interface, you can take advantage of a number of advanced features that allow you to manage the security of your organization more effectively. For example, you can work with a user with Admin role to manage bots and bot-like users. For more information, see [Managing Bots and Bot-like Users](#).

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If you have comments about this document, you can [contact the documentation team](#) by email. If an email client is configured on this computer, click the link above and an email window opens with the following information in the subject line:

Feedback on User's Guide (Intelligence 6.3.0)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to arcsight_doc@microfocus.com.

We appreciate your feedback!