

Splunk® Enterprise

# Dashboards and Visualizations



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## Product

Splunk® Enterprise

## Version

8.2.1 (latest release)

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## Generate dashboard PDFs

Dashboard PDF generation includes the following options.

- Generate and save a dashboard PDF.
- Print dashboard PDFs.
- Schedule PDF email delivery.

There are some limitations to PDF generation. See [Limitations to PDF generation \(http://docs.splunk.com/Documentation/Splunk/8.2.1/Viz/DashboardPDFs#Limitations\\_to\\_PDF\\_generation\)](http://docs.splunk.com/Documentation/Splunk/8.2.1/Viz/DashboardPDFs#Limitations_to_PDF_generation) for details.

For information on sending scheduled report PDFs as email attachments, see [Schedule reports \(http://docs.splunk.com/Documentation/Splunk/8.2.1/Report/Schedulereports\)](http://docs.splunk.com/Documentation/Splunk/8.2.1/Report/Schedulereports) in the *Reporting Manual*.

## Generate and print dashboard PDFs

### Generate a dashboard PDF

1. From the dashboard, select **Export** > **Export PDF**. The generated PDF appears in a browser window.
2. View, download, or print the PDF from the browser window.

### Print a dashboard PDF

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1. From the dashboard, select **Export** > **Print**. The default print driver for your browser opens with print experience. We also use these cookies to improve our products and services,

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## Real-time searches and integrated PDF generation

PDF generation has special time range handling for real-time searches. PDFs for real-time searches, reports, or dashboards show results for the search time window relative to PDF generation time. As an example, when you generate a PDF for a real-time search with a five minute time window, the PDF shows search results for the past five minutes.

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PDFs for dashboard panels with "real-time all time" search time ranges show results for the search over all time.

## Schedule PDF delivery

Authorized users can schedule PDF delivery.

- You must have the `admin` role to schedule a PDF email, using the `sendemail` command, to a mail server that requires SMTP authentication.
- You must have the `list_settings` capability to schedule a PDF email, using the `sendemail` command, to a mail server that does not require SMTP authentication.
- If you want to allow users not belonging to the `admin`, `splunk-system-role`, and `can_delete` roles to send email notifications using the `sendemail` command in their search, you must assign them the `list_settings` capability. Only the `admin`, `splunk-system-role`, and `can_delete` roles are assigned the `list_settings` capability by default.

For more information on roles and capabilities, see [Define roles on the Splunk platform with capabilities](http://docs.splunk.com/Documentation/Splunk/8.2.1/Security/Rolesandcapabilities) (<http://docs.splunk.com/Documentation/Splunk/8.2.1/Security/Rolesandcapabilities>) in the *Securing Splunk Enterprise Manual*.

To set up PDF delivery, select **Export > Schedule PDF delivery**. Ensure that email notification settings are configured prior to scheduling PDF delivery. For more information on configuring alerts, see [Configure email notification settings](http://docs.splunk.com/Documentation/Splunk/8.2.1/Alert/Emailnotification#Configure_email_notification_settings) ([http://docs.splunk.com/Documentation/Splunk/8.2.1/Alert/Emailnotification#Configure\\_email\\_notification\\_settings](http://docs.splunk.com/Documentation/Splunk/8.2.1/Alert/Emailnotification#Configure_email_notification_settings)) in the *Alerting Manual*.

 Scheduled PDF delivery is not available for dashboards that include forms.

## Use tokens in scheduled dashboard delivery

Splunk software provides tokens that you can use to include information generated by a search in the fields of an email. For scheduled PDF delivery, you can use tokens in the following fields of an email:

- Subject
- Message
- Footer

Access the value of a token with the following syntax:

```
$<token-name>$
```

For example, place the following token in the subject field of a scheduled PDF delivery to reference the app containing the dashboard.

```
Search results from $app$
```

## Tokens available for email notifications

You can use tokens to populate email notifications dynamically with search, server, or dashboard information.

See [Use tokens in email notifications](http://docs.splunk.com/Documentation/Splunk/8.2.1/Alert/EmailNotificationToSchedulePDFDelivery#Use-tokens-in-email-notifications) (<http://docs.splunk.com/Documentation/Splunk/8.2.1/Alert/EmailNotificationToSchedulePDFDelivery#Use-tokens-in-email-notifications>) for more information on tokens and the available tokens.

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## Schedule PDF delivery of a dashboard

Schedule PDF delivery of a dashboard:

1. For the dashboard you want to schedule, select **Export > Schedule PDF Delivery**.

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2. Select the **Schedule PDF Delivery** check box to enable PDF delivery.

**Edit PDF Schedule**

Dashboard: **Buttercup Games**

Schedule PDF: ☒

Schedule: Run every hour ▾

At: 15 ▾ minutes past the hour

Email To: admin@splunk.com  
Comma separated list of email addresses. [Show CC and BCC](#)

Priority: Normal ▾

Subject: Splunk Dashboard: '\$dashboard.label\$'  
The email subject, recipients and message can include tokens that insert text based on the results of the search. [Learn More](#)

Message: A dashboard was generated for \$dashboard.label\$

Type: **HTML & Plain Text** Plain Text

Paper Size: Letter ▾

Paper Layout: **Portrait** Landscape

[Send Test Email](#) [Preview PDF](#)

[Cancel](#) [Save](#)

(/File:7.1\_schedule\_pdf.png)

3. Select a schedule.

If you select **Run on Cron Schedule** see cron examples ([http://docs.splunk.com/Documentation/Splunk/8.2.1/Viz/DashboardPDFs#Specify\\_a\\_cron\\_schedule\\_for\\_PDF\\_delivery](http://docs.splunk.com/Documentation/Splunk/8.2.1/Viz/DashboardPDFs#Specify_a_cron_schedule_for_PDF_delivery)).

4. Specify email details.

You can use tokens in the **Subject** and **Message** fields.

- **To, CC, and BCC** email recipients.  
Specify a comma-separated list of email recipients.
- **Priority**  
Enforcement of priority depends on your email client.
- **Subject**
- **Message**

5. Select **Paper Size** and **Paper Layout**.

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To **Discontinue a Scheduled email delivery of a dashboard PDF** after you have left our website, [Learn more here](#) >

1. For the dashboard you want to discontinue PDF delivery, select **Export** > **Schedule PDF Delivery**. ([https://www.splunk.com/en\\_us/legal/splunk-cookie-policy.html](https://www.splunk.com/en_us/legal/splunk-cookie-policy.html))

2. Deselect the **Schedule PDF Delivery**.


3. Click **Save** to save the schedule delivery settings.

## Scheduled views reports

When you schedule a PDF for delivery, a report called a scheduled view is created. Scheduled views don't appear in **Searches, Reports, and Alerts** under **Settings**. They only appear as a stanza in `savedsearches.conf`. The naming convention for scheduled views is `_ScheduledView_<dashboard_name>`, where `dashboard_name` is the name of the corresponding dashboard. It's a best practice to monitor the number of searches that are running to generate these dashboards, especially if you are experiencing problems with concurrent search limits for your deployment.

When a dashboard is deleted, the corresponding scheduled view is orphaned, but still present. By default, orphaned scheduled views are deleted every 24 hours. If you want to change the frequency of the setting, or disable it, you can use the following settings in `limits.conf`.

Setting	Description	Default
<code>enable_reaper = &lt;boolean&gt;</code>	Controls whether the scheduled views reaper runs. The reaper deletes orphaned scheduled views.	<code>true</code>
<code>reaper_freq = &lt;integer&gt;</code>	Controls how often, in seconds, the scheduled views reaper runs.	<code>86400</code> (24 hours).

 Never make changes to the configuration files in the default directory. For information on how to edit configuration files, see [About configuration files](#).  
(<http://docs.splunk.com/Documentation/Splunk/7.0.0/Admin/AboutConfigurationFiles>)

Specify a cron schedule for PDF delivery

You can use cron notation to define a custom delivery schedule. Select the **Cron** option to input a schedule.

Cron parameters

When specifying a cron expression, only five cron parameters are available, not six. The sixth parameter for year, common in other forms of cron notation, is not available.

The cron parameters, `* * * * *`, correspond to minute hour day month day-of-week.

Example expressions

Here are some example cron expressions.

<code>* / 5 * * * *</code>	Every 5 minutes.
<code>* / 30 * * * *</code>	Every 30 minutes.
<code>0 * / 12 * * *</code>	Every 12 hours, on the hour.
<code>* / 20 * * * 1 - 5</code>	Every 20 minutes, Monday through Friday.
<code>0 9 1 - 7 * 1</code>	First Monday of each month, at 9am.

Additional configurations for PDF printing

Splunk Enterprise users can specify the following configurations for PDF printing.

- Maximum number of table rows to print
- Report setting for generating a PDF
- Whether to include logos
- Enable usage of non-Latin fonts

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Configure the number of rows in a table

By default, 1000 rows are generated for a simple results table in a dashboard panel. If you have a dashboard with a table that has more than 1000 rows, the initial 1000 rows are rendered for the PDF, printing the results across several pages if necessary.

Splunk Enterprise users can override the default number of rows generated for PDF in the `limits.conf` file.

### To configure the maximum number of rows in a table that can be printed in PDF:

1. Open `$SPLUNK_HOME/etc/system/local/limits.conf` for editing.  
Create this file if it does not already exist.
2. Specify the following property in the `[pdf]` stanza:

```
[pdf]
max_rows_per_table = <unsigned int>
```

**Note:** This setting configures PDF settings for all tables in your Splunk deployment.

### Configure the timeout setting for generating a PDF

The default timeout for generating a PDF is 3600 seconds, as specified in `limits.conf`. A complex search that is slow to completion might need additional time to generate the PDF.

### To configure the timeout for generating a PDF:

1. Open `$SPLUNK_HOME/etc/system/local/limits.conf` for editing.  
Create this file if it does not already exist.
2. Specify the number of seconds to wait to generate a PDF. This property is in the `[pdf]` stanza:

```
[pdf]
render_endpoint_timeout = <unsigned int>
```

**Note:** This setting configures PDF generation timeout settings for all PDFs in your Splunk deployment.

### Configure whether to include the Splunk logo for a PDF

By default, the Splunk logo is included in a generated PDF. You can override the default setting in `alert_actions.conf`.

### To not include the Splunk logo in a generated PDF:

1. Open `$SPLUNK_HOME/etc/system/local/alert_actions.conf` for editing.  
Create this file if it does not already exist.
2. Specify the following property in the `[email]` stanza:

```
[email]
reportIncludeSplunkLogo=0
```

**Note:** This setting configures settings for all generated PDFs in your Splunk deployment.

### Enable usage of non-Latin fonts in PDFs

We use our own and third-party cookies to provide you with a great online experience. We also use these cookies to improve our products and services. Splunk software comes prepackaged with a collection of Latin fonts, and also a set of CID fonts for handling Japanese, Korean, Simplified Chinese, and Traditional Chinese. You can control how Splunk software loads the CID fonts by making changes to the `reportCIDFontList` parameter in `alert_actions.conf`. Specify fonts in a space-separated list. If multiple fonts provide a glyph for a given character code, the glyph from the first font in the list is used. [Learn more here](https://www.splunk.com/en_us/legal/splunk-cookie-policy.html) (https://www.splunk.com/en\_us/legal/splunk-cookie-policy.html)

The `reportCIDFontList` parameter is in the `[email]` stanza. Make any changes for font usage here:

```
$SPLUNK_HOME/etc/system/local/alert_actions.conf
```

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Here are the CID fonts supported by default:

gb cns jp kor

These reference Simplified Chinese, Traditional Chinese, Japanese, and Korean respectively.

To skip loading any CID fonts, in the local version of `alert_actions.conf`, leave the value of `reportCIDFontList` blank.

If you want your PDFs to use another non-Latin font (such as Cyrillic or Greek) ask an administrator add the Unicode font to `$SPLUNK_HOME/share/splunk/fonts`. Create the `fonts` directory if it doesn't already exist.

**Note:** When multiple fonts are installed, they are sorted by name in alphabetical order. For example, If you have Cyrillic and Greek installed, Splunk software always chooses Cyrillic unless you change the name of the files in `$SPLUNK_HOME/share/splunk/fonts` so that Greek comes first.

## Limitations to PDF generation

Integrated PDF generation functionality has a few limitations.

- PDFs in languages, such as Hebrew, where text should appear in right to left order, are rendered with text in left to right order.
- PDFs for dashboards with multiple panels in a row might generate with only a single panel per row.
- PDF generation works only with dashboards built with simple XML.
- You cannot generate PDFs for forms.
- PDF generation ignores charting customizations that are not supported by the JSChart charting library. The finished PDF displays the panels as rendered in JSChart with the unsupported customizations removed.
- Dark theme is not supported for this operation. Dashboards saved in dark theme will switch to light theme when exported to PDF.

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◀

PREVIOUS

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(/Documentation/Splunk/8.2.1/Viz/DashboardPermissions)

▶

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Clone and manage dashboards  
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PREVIOUS

Configure dashboard permissions  
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NEXT

Clone and manage dashboards  
(/Documentation/Splunk/8.2.1/Viz/DashboardCloneHome)

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This documentation applies to the following versions of Splunk® Enterprise: 8.1.2, 8.1.3, 8.1.4, 8.1.5, 8.2.0, 8.2.1

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