Streaming Render Service Logs

Forward logs to your syslog-compatible provider.

You can stream the logs generated by your Render services to any logging provider with a TLS-enabled syslog endpoint, such as Datadog or Sumo Logic. This includes HTTP request logs for **Professional** workspaces and higher.

After you set a default stream destination for your workspace, all of your supported services start streaming their logs to that destination. You can override this for individual services.

> Render does not emit logs for static sites.

Setup

1   From your workspace home in the Render Dashboard, click **Integrations > Observability** in the left pane.

2   Scroll down to the **Log Streams** section:

Log Streams

Forward your Render service logs to a third-party logging provider. These settings apply to all services. Learn more.

Default destination

Services in the workspace will forward logs to this destination by default. You can override this per service.

+ Set default

Include logs from preview instances

If you use service previews or preview environments, enable this option to include logs from those test instances in your log stream.

Include preview logs   Edit

3   Under **Default destination**, click **+ Set default**.

The following dialog appears:

Edit Log Stream   ×

Log Endpoint

e.g., logs.papertrailapp.com:34302

Token (Optional)
Learn more about tokens in our docs.

e.g., tok_123

Cancel   Save Changes

4   Provide your syslog endpoint URL in the **Log Endpoint** field.

- Use the format `HOST:PORT` (for example, `logs.papertrailapp.com:34302`).

- For help finding the endpoint URL with common providers, see below.

5   If Render needs to include an authentication token with all reported logs, provide it in the **Token** field.

  - This is required for logging providers that use a single syslog endpoint for multiple users, such as Datadog.

6   Click **Save Changes**.

7   Toggle **Include logs from preview instances** to configure whether your log stream includes logs from your service previews and preview environments.

You're all set! Logs from Render will start to appear in your provider's feed shortly.

Overriding defaults

Professional workspaces and higher can override log stream settings for individual services:

CUSTOM SETTING	HOBBY	PROFESSIONAL	ORGANIZATION / ENTERPRISE
Omit individual services from log stream	❌	🟢	🟢
Set a custom destination for individual services	❌	❌	🟢

1   In the Render Dashboard, open the Settings page for the service you want to override and scroll down to the **Log Stream** section:
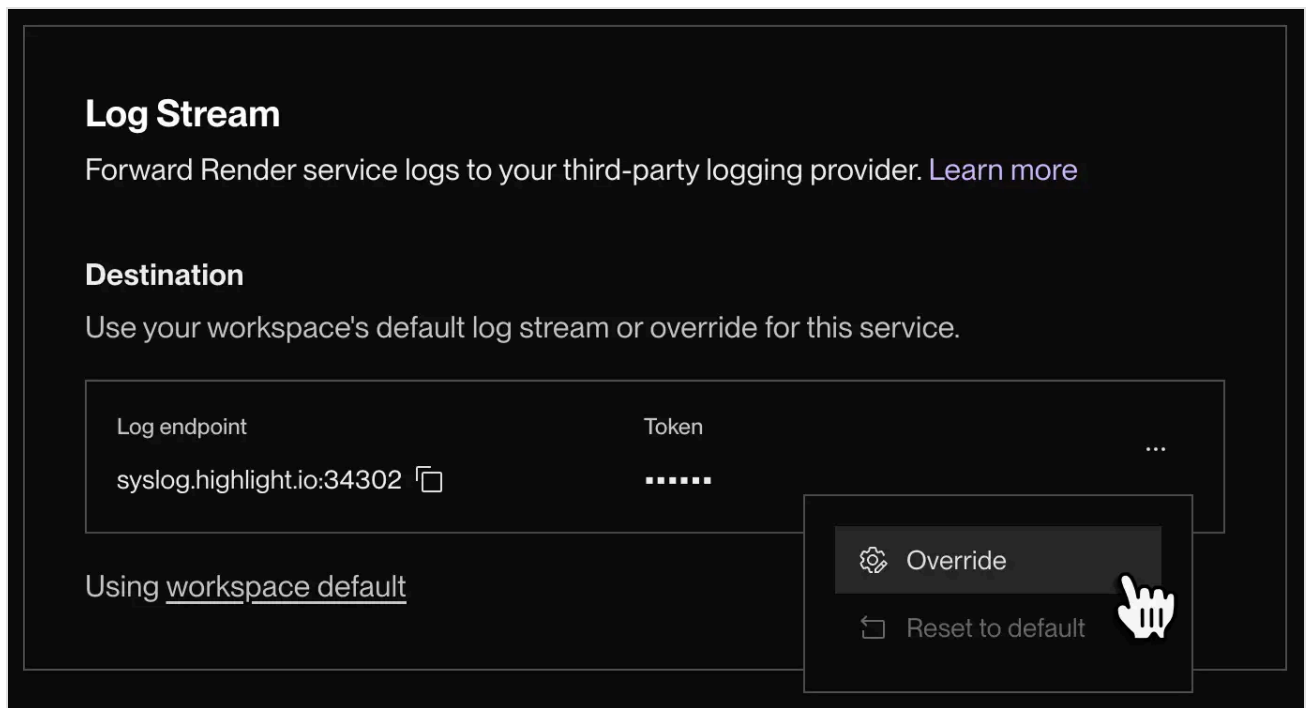
2 Open the ▪▪▪ menu and click **Override**. The following dialog appears:
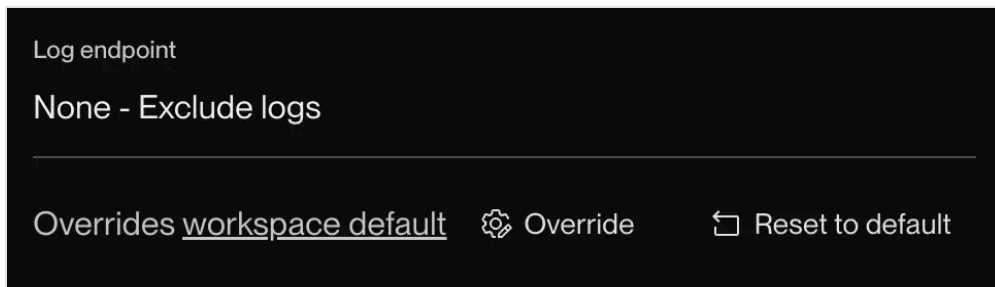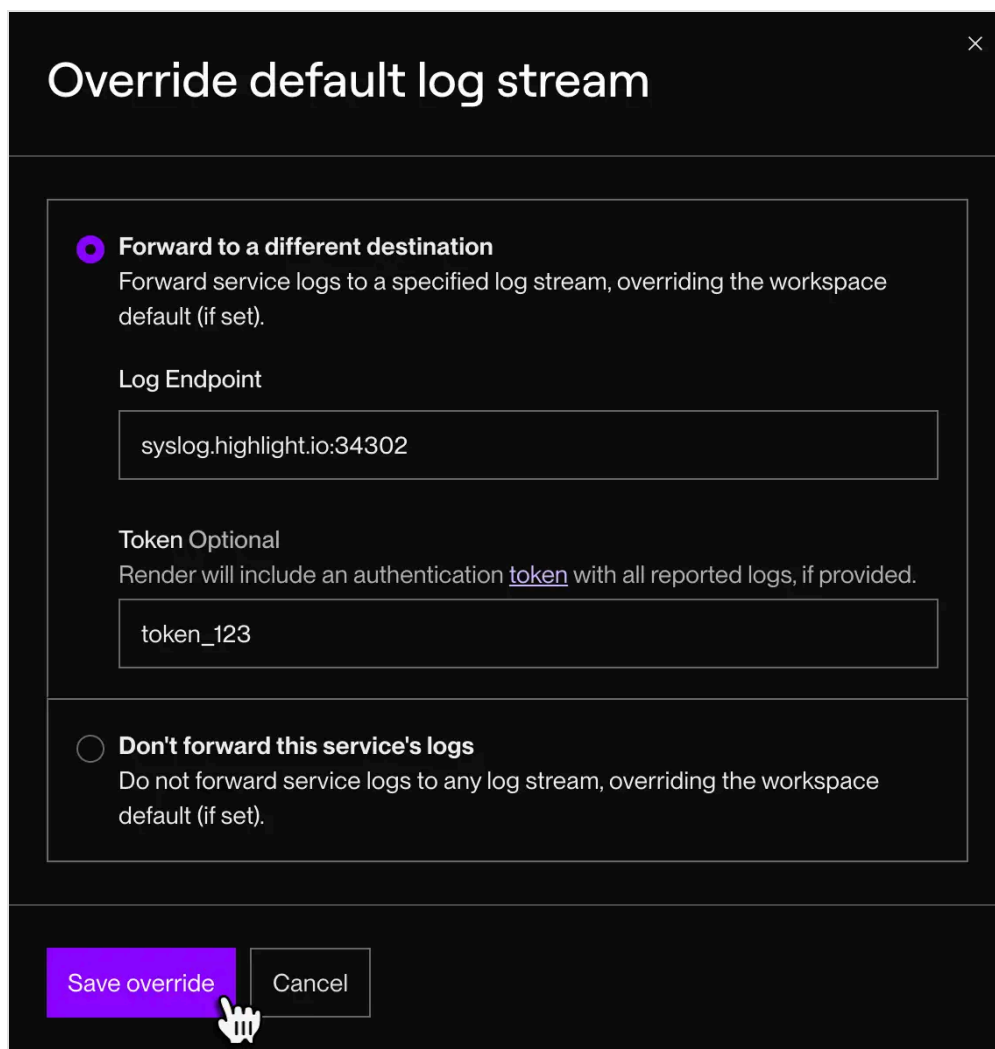
3 Select **Forward to a different destination** or **Don't forward this service's logs**.

   - Forwarding to a different destination requires an Organization workspace or higher.

4 Provide any necessary details for the selected option and click **Save override**.

You're all set! Your service now uses its own custom log stream settings:

Log endpoint

None - Exclude logs

Overrides workspace default   Override   Reset to default

You can revert this custom configuration by clicking **Reset to default**.

Reporting format

Render streams logs to your provider's syslog endpoint over TCP. Log lines are formatted according to RFC5424, which is supported by most popular providers.

Log streams do *not* support:

- Insecure (non-TLS-enabled) endpoints
- Providers that require a custom log format

If you encounter issues integrating with a syslog-compatible provider, please let us know at support@render.com.

A formatted log line looks like this:

TEXT

```
<0>1 2021-03-31T16:00:00-08:00 test-service cron-12345 74440 cron-12345
```

Render annotates each log line with:

- The corresponding service's slug

- The type of service (`web` , `cron` , etc.)

- A unique identifier for the instance
  - Use this value to track your service between deploys, or to distinguish between multiple instances if you're running more than one.

If you're using a standard format like `logfmt` or `json` , Render maps the `level` field to an appropriate syslog priority. Otherwise, Render makes a best effort to parse log levels, defaulting to `INFO` .
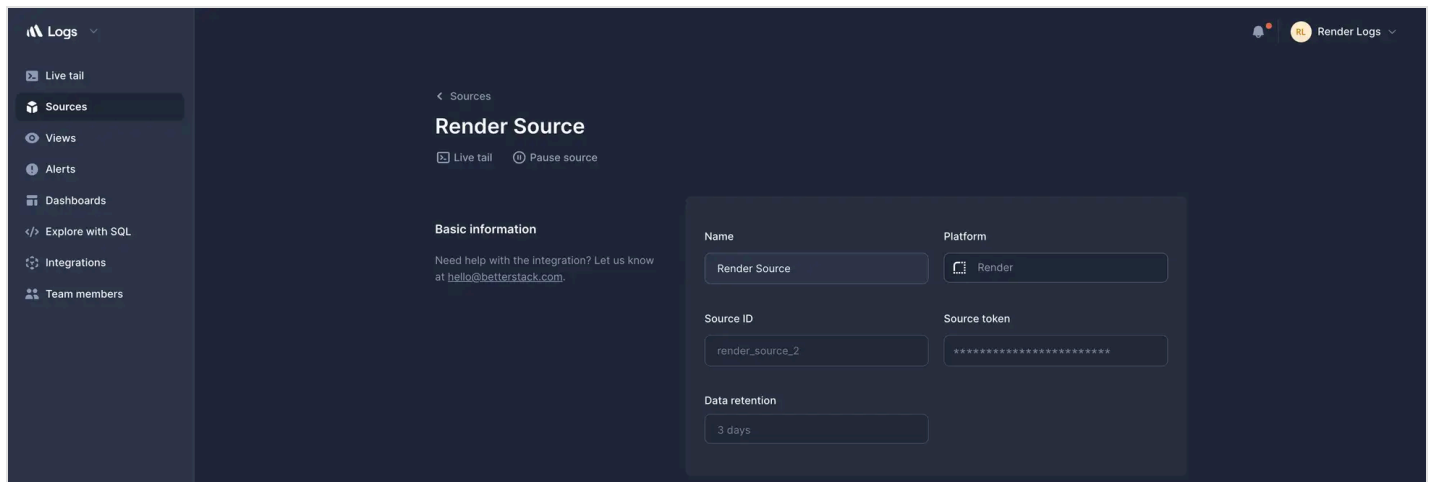
Finding your syslog endpoint

Consult your logging provider's documentation to obtain your syslog endpoint and any necessary token. Instructions for certain providers are also available below.

> If there's a logging provider you'd us to add to this list, please submit a feature request.

Better Stack (previously Logtail)

Create a new source in Better Stack Logs with the platform `Render` :

Then, when adding your log stream in Render:

- Provide `in.logs.betterstack.com:6514` as the **Log Endpoint**.

- Provide the **source token** from Better Stack as the **Token**.

For more information, see the <u>Better Stack documentation</u>.

Datadog

See <u>this section</u>.

highlight.io

To stream logs to your existing highlight.io project:

- Provide `syslog.highlight.io:34302` as the **Log Endpoint**.

- Provide your highlight project ID as the **Token**.
  - Your highlight project ID is shown in the top left of your project page.

For more information, see the <u>highlight.io documentation</u>.

Mezmo (previously LogDNA)

> We've observed high rates of connection failures with Mezmo's syslog endpoint and do not recommend using them with Render at this time.

Log in to your Mezmo account and navigate to the <u>sources page</u>. Select **syslog** on the left sidebar to see your syslog endpoint.

Add a Log Source

Overview

Via Agent

Gentoo Linux

Linux Debian-based

Linux RPM-based

macOS Server

Windows Server

Via Platform

Akamai

Aptible

Cloud Foundry

CloudWatch

Docker

Elastic Beanstalk

Fluentd

Flynn

Heroku

Kubernetes

NXLog

OpenShift

S3

SaltStack

Via Syslog

rsyslog

syslog-ng

syslog

Via Code

REST API

Libraries

Your Ingestion key is: `fda952b77b7f88f27eb7724c5c981b2f`

Syslog

Plain old syslog

To setup regular syslog, or to enable syslog access on a non-default (other than 514/6514) port. Use the following syslog URL:

```
syslog-a.logdna.com:45245
```

Append to your `/etc/syslog.conf`:

```
*.* @syslog-a.logdna.com:45245
```

Note   TCP and TCP+TLS are all supported on the same provisioned port. **If you are using a non-default port to send logs via UDP, please** contact LogDNA support **to open the port to UDP traffic.** Consult your local syslog man page for full configuration details.

Papertrail

Log in to your account and navigate to the setup page to find your Syslog endpoint:

If you use the same Papertrail account to collect logs from multiple providers, you can optionally generate a unique endpoint for your Render services.

SolarWinds

Follow the instructions for sending logs using syslog.

- Set the **Log Endpoint** to your organization's syslog collector endpoint. This endpoint has the format `syslog.collector.xx-yy.cloud.solarwinds.com:6514`, where `xx-yy` represents the data center your organization uses. See Data centers and endpoint URIs to find the exact URL.

- Provide your API ingestion token as the **Token**.

  - Your API ingestion token is found in the Token field.

Sumo Logic

Follow the instructions for <u>configuring a cloud syslog source</u>.

After you configure your source, Sumo Logic displays a modal with a **Token** and **Host**. Use these for your log stream's **Token** and **Log Endpoint**, respectively.