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# Install the Java agent

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Our Java agent auto-instruments your code so you can start monitoring applications. You can use our launcher, or follow the instructions in this document to complete a basic Java agent installation.

[Add Java data](#) ↗



To use Java or any other agent, as well as the rest of our [observability platform](#) ↗, join the New Relic family! [Sign up](#) ↗ to create your free account in only a few seconds. Then ingest up to 100GB of data for free each month. Forever.

## 1. Before you install

Check the following:

- Make sure you have signed up for a [New Relic account](#).
- Review the [compatibility and requirements](#).
- Check if your environment requires [additional or alternative install steps](#).

## 2. Get the agent

Download `newrelic-java.zip` using `curl`, `Invoke-WebRequest` (PowerShell), or the New Relic UI:

**Download using `curl`**

Complete the following:

1. Start a command-line session.
2. Change to a temporary directory where you can download the zip file.

**Hide All** ☰

⬆ Show all in this section OR type F to show all,  
H to hide all

3. Execute this `curl` command:

```
curl -O https://download.newrelic.com/newrelic/java-agent/newrelic-agent/current/newrelic-java.zip
```

4. Unzip `newrelic-java.zip`

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## Download using `Invoke-WebRequest` (PowerShell)

Complete the following:

1. Start a PowerShell session.
2. Change to a temporary directory where you can download the zip file.
3. Execute this PowerShell command:

```
Invoke-WebRequest -Uri https://download.newrelic.com/newrelic/java-agent/newrelic-agent/current/newrelic-java.zip -OutFile newrelic-java.zip
```


4. Unzip `newrelic-java.zip`:

```
Expand-Archive -Path newrelic-java.zip -DestinationPath DESTINATION_PATH
```

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## Download from the New Relic UI

Complete the following:

1. [Sign in to New Relic](#). 
2. From the [account dropdown](#) in the New Relic UI, select **Account settings**.
3. In the right sidebar under **Most recent**, select the Java agent, and save the `newrelic-java.zip` to a temporary directory.
4. Unzip `newrelic-java.zip`.

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## 3. Configure the agent

Here's how to do a basic setup with agent configuration settings in `newrelic.yml`.



For an advanced installation, you can pass settings with [environment variables](#), [Java system properties](#), or [server-side configuration](#). To understand the precedence of these configuration settings, see [Java agent configuration: Config file](#).

The Java agent requires the `license_key` and `app_name` settings at startup. All the other settings are optional, and you can review them in [Java agent configuration: Config file](#).

Go to the unzipped installation file, and inside the `newrelic` subdirectory, edit `newrelic.yml`:

1. Find the line with `license_key`.
2. Replace `'<%= license_key %>'` with your [license](#). For example:

```
license_key: 456n20n1367ov2s174v51nv789d21s67v26NRAL
```

3. Find the line with `app_name`.
4. Replace *My Application* with a name that helps you identify the application. For example:

```
app_name: Tax Calculator
```



If you need tips about how to name your application, see [Name your application](#).

5. Add optional settings that you want, such as [agent logging](#) and [distributed tracing](#) (or add them later).
6. Save and close `newrelic.yml`.

## 4. Install the agent

The Java agent installation involves copying all the unzipped New Relic files into the directory structure of your application server/container. For example, you can create a `/opt/newrelic` directory, but if you want to put the files elsewhere, make sure of the following:

- The `.jar` files in the directory cannot be on the classpath.
- The `.jar` files cannot be in directories specified in `java.endorsed.dirs`.

To install the Java agent:

1. In your application server/container directory structure, create a directory for New Relic files (for example, `/opt/newrelic`).
2. Copy all the New Relic files from your unzipped `newrelic` directory into your new directory.
3. Make sure that your application server/container includes this option when it starts Java (for tips on how to do this with your tool or framework, see [JVM arguments](#)):

```
-javaagent:/full/path/to/newrelic.jar
```

4. Start or restart your application server/container.

Generate some traffic for your app, and then wait a few minutes for data to appear in the [APM Summary page](#). If nothing appears, follow the [troubleshooting procedures](#).

## 5. Post-installation tasks

If you are using `newrelic.yml` to make configuration settings, consider the following:

- We recommend you change the default `newrelic.yml` file permissions to read/write only for the owner of the application server process.
- As you would with other important files, be sure `newrelic.yml` is part of your backup routine.
- We recommend using New Relic Diagnostics to [validate your settings](#), either before or after you deploy.

## What's next?

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Here are some additional topics to consider:

- For Docker questions, see [Install New Relic Java agent for Docker](#).
- View your app in New Relic and get comfortable with the user interface.
- Read the documentation about APM. For example, read about the [Summary page](#), the [JVM metrics page](#), the [Transactions page](#), and other [performance monitoring features](#).
- Query your data using [NRQL](#) (New Relic Query Language).
- Learn about setting up [custom instrumentation](#) and [async instrumentation](#) for application activity not monitored by default.

## For more help

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If you need more help, check out these support and learning resources:

- Browse the [Explorers Hub](#)  to get help from the community and join in discussions.
- Find [answers on our sites and learn how to use our support portal](#).
- Run [New Relic Diagnostics](#), our troubleshooting tool for Linux, Windows, and macOS.
- Review New Relic's [data security](#) and [licenses](#) documentation.