**New Relic Integration Documentation**

<https://one.eu.newrelic.com>

Email: [studioghibli037@gmail.com](mailto:studioghibli037@gmail.com)

Password: Studioghibli06@

New Relic APM uses a combination of techniques to monitor application performance, including:

* **Automatic instrumentation:** New Relic APM can automatically inject monitoring code into our application, simplifying setup and reducing the need for manual configuration.
* **Real-time data collection:** The APM solution collects data on our application's performance in real-time, providing immediate insights into any issues that may arise.
* **Metrics, events, logs, and transactions (MELT):** New Relic APM monitors a variety of data sources, including metrics (performance measurements), events (significant happenings within the application), logs (detailed records of application activity), and transactions (individual user interactions with the application). This comprehensive data collection allows for a holistic view of application health.
* **Pre-built and custom dashboards:** New Relic provides pre-built dashboards for common monitoring tasks. However, you can also create custom dashboards to focus on specific aspects of your application's performance.
* **Alerts and notifications:** New Relic APM can be configured to send alerts and notifications when performance thresholds are exceeded or errors occur. This allows development teams to identify and address potential issues quickly.

Overall, New Relic APM uses a combination of automated data collection, real-time analysis, and customizable dashboards to provide comprehensive insights into application performance.

Install the Node.js agent

1. Create a New Relic account
2. Use the command - npm install new relic
3. From node\_modules/newrelic, copy newrelic.js into the root directory of your app.
4. Configure the agent via the newrelic.js file or via the environment variable

Customize the license\_key setting with the license key.

Customize the app\_name setting with one or more meaningful app names.

1. Add -r newrelic to your app's startup script.

node -r newrelic ./src/index.js.

In our project APM New Relic Agent installed in to our 5 Microservices

**Courses**

A black and orange text

Description automatically generated with medium confidence

**Customer**

A screenshot of a computer

Description automatically generated

**Enrollment**

**A black and white text with orange and blue lines

Description automatically generated with medium confidence**

**Gateway**

**A black and blue background with white text

Description automatically generated**

**User**

**A black and blue background with white text

Description automatically generated**

Browser monitoring allows us to track and analyze the performance of our React application from the perspective of the end user's browser.

To set up New Relic browser monitoring for a React application.

1. Install the New Relic Browser Agent: New Relic provides a JavaScript agent that we need to include in our application to start collecting data. We can either manually add the agent script to your HTML files or use a package manager like npm to install it in your React project.

**Frontend**

**A screen shot of a computer

Description automatically generated**

**Admin\_frontendA screen shot of a computer

Description automatically generated**

**Infrastructure Monitoring**

To monitor Kubernetes (K8s) clusters using New Relic, we can leverage New Relic's Kubernetes integration, which provides insights into the performance, health, and resource utilization of your Kubernetes environment. Created A namespace called monitoring is created in the Kubernetes cluster and a New relic agent is installed into our Kubernetes cluster. The agent collects various metrics and metadata from your Kubernetes environment, including cluster health, node performance, pod resource usage, deployment status, and more. This data is sent to New Relic, where it can be visualized in the New Relic One platform. New Relic provides dashboards, charts, and alerts to help you monitor the health and performance of your Kubernetes environment in real-time.

A screenshot of a computer

Description automatically generated