**Dynatrace OneAgent: Overview and Capabilities**

**OneAgent** is the core monitoring component of the Dynatrace platform. It is a **lightweight binary file** that includes a suite of **pre-configured services** developed by Dynatrace to enable **full-stack observability**.

**🔧 Key Functionalities**

Once deployed, OneAgent automatically detects and monitors:

* **Infrastructure**: Collects detailed metrics at the **data center**, **host**, and **hardware** levels.
* **Operating Systems**: Monitors OS-level metrics such as memory, CPU, disk I/O, and more.
* **Application Processes**: Provides deep observability into processes running on the host.

**🔍 Code-Level Injection**

OneAgent has powerful capabilities to **instrument code** across multiple programming environments:

* **Java**
* **Node.js**
* **.NET**
* **Python**

By injecting itself directly into these application runtimes, it enables monitoring **from inside the application**, capturing detailed traces, exceptions, method calls, and performance bottlenecks.

**🌐 Front-End Monitoring**

OneAgent also supports **Real User Monitoring (RUM)**:

* Injects a **JavaScript tag** into HTML pages served by your web application.
* Tracks **user interactions** and performance across **desktop and mobile** browsers.
* Monitors **page load times**, **click events**, and **navigation patterns**, providing a **complete view of the user experience**.

**🧠 Full Stack Coverage**

From the **physical host** in a data center to the **end-user's browser**, OneAgent offers **complete visibility** across all layers of a modern system:

* Data Center
* Host (Server or VM)
* Application Processes
* Code Execution
* User Interface

**✅ Benefits of Using OneAgent**

* **Seamless Deployment**: Easy to install on any host or cluster.
* **Automatic Discovery**: Automatically detects services and dependencies without manual configuration.
* **Comprehensive Observability**: Captures logs, metrics, traces, and user behavior.
* **Unified Monitoring**: Works in hybrid, multi-cloud, and containerized environments.

Dynatrace OneAgent empowers teams with **deep insights** and **real-time observability**, helping detect issues proactively and enhancing the overall performance and security of applications.

Let me know if you'd like this as a slide, infographic, or want to expand it into a documentation page or training note!