APP**DYNAMICS**

DATASHEET
Python

The next generation of application performance management for your Python applications

Get to the root cause of performance bottlenecks in your Python applications with the AppDynamics Application Intelligence Platform. With AppDynamics, you can drill down into request stack traces to diagnose performance bottlenecks in your mission-critical Python applications – all while running in a live production environment.
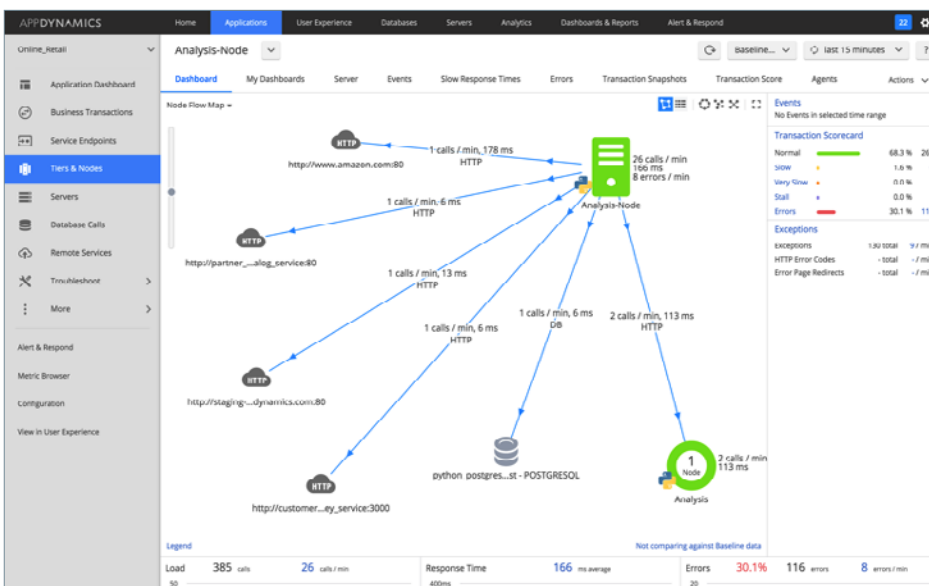
The new world of distributed web applications has created a whole new set of challenges for those tasked with ensuring Python application performance. With the shift toward service-oriented architectures (SOA) and microservices, Python applications now operate in rapidly changing environments. As a result, performance problems surface that are often difficult to identify, diagnose, and fix.

As these applications become increasingly critical to the business, it's more important than ever to have a simple yet fast way to monitor, diagnose, and resolve application problems before they affect revenue.

AppDynamics allows you to monitor your Python applications in production so you get real-time visibility of performance and can find the root cause of code bottlenecks in seconds, all with minimal overhead. The root causes of performance problems can be very different and complex to locate, while the result is usually simple - a slow or unavailable web site. AppDynamics reveals the internals of your application and infrastructure through process-level code visibility and proactive monitoring enabling detailed analysis, fast troubleshooting, performance and capacity optimization. We allow companies to monitor, troubleshoot, and diagnose their production applications, gaining 10x their current level of visibility and getting to root cause 90% faster.

KEY BENEFITS

– Distributed transaction correlation provides you insight into key metrics behind your distributed environment. Find the root cause with pinpoint accuracy behind transaction slowdown within even the most complex SOAs

– Database Monitoring allows you to monitor popular data stores like Redis, Memcache, Riak and MongoDB as well as relational databases like MySQL and PostgreSQL

– Complete visibility into real user experience across both web and mobile applications, with real-time information on browser, network and server performance

Key APM features

- **Business transactions:** automatic detection, response time, calls per min, slow, very slow, stalls

- **Transaction snapshots:** code level diagnostics showing complete call graphs and code execution, policy-based collection available

- **SQL statement visibility:** prepare statements, remove sensitive data

- **Errors:** transaction errors, backend errors

- **Application flow map:** visualize application dependencies

- **End User Experience Management:** Browser diagnostics correlated with server-side diagnostics

- **Real-time analytics:** automatic baselining and scoring of application and transaction performance

- **Distributed transaction tracing:** correlation of distributed transactions from multiple tiers

- **Performance:** low overhead and designed for extremely high traffic production applications

- **Change detection:** record application change events like deployments and upgrades

- **KPIs:** application metrics, OS metrics, custom metrics via SDK

- Custom dashboards help your team understand the health and performance of your Python application in record speed

- **Unhandled exceptions:** shows errors within the business transaction snapshot

KEY PYTHON SUPPORT

- **Application errors**
  - Transaction and backend errors
  - Unhandled exceptions: shows errors within the business transaction snapshot

- **Transaction stack traces**
  - Call graphs generated for the individual transactions to help you find resource-intensive and slow code

- **Critical runtime metrics**
  - Monitor your runtime; including CPU performance, network & disk I/O, error rates, and memory activity

- **Transaction tag and follow**
  - Understand end-to-end transaction flows in highly distributed application environments

- **API functions**
  - Functions made available to the application code to further tailor your APM solution

Try it FREE at appdynamics.com