AppDynamics
Infrastructure Visibility Monitoring

AppDynamics Infrastructure Visibility

AppDynamics Infrastructure visibility provides end to end visibility to the performance of the underlying infrastructure that houses your application. It helps you identify CPU utilization , Disk IOs, Network Packet loss, memory utilization issues, Network latency, JVM crash, system or server failures etc.

Detailed metrics provided by infrastructure visibility includes;

- CPU busy/idle times, disk and partition reads/writes, and network interface utilization (Machine Agents)

- Packet loss, round trip times, connection setup/teardown errors, TCP window size issues, and retransmission timeouts (Network Visibility, additional license required)

- Disk/CPU/memory utilization, process, and machine availability (Server Visibility, additional license required)

AppDynamics Infrastructure Visibility

Infrastructure visibility is based on AppDynamics machine agent that runs with AppDynamics application agent on the same server providing rich performance correlation across different perfromance pointers or metrics.

	This Agent Monitors...	Example Metrics
1 App Agent	apps app servers JVMs CLRs	Slow Transactions Stalled Transactions Response Times Wait Times Block Times Error %
2 Network Agent	network packets TCP connections TCP sockets	Performance Impacting Events Packet loss and retransmissions Round Trip Times for data transfers TCP Window Size (Limited or Zero) Connection setup/teardown errors
3 Machine Agent	*Server Visibility* processes services caching swapping paging queueing	Hardware/Software Interrupts Virtual memory/swapping Process faults CPU/disk/memory utilization by process
	Hardware/OS disks volumes partitions memory CPU network interfaces	CPU busy times Memory utilization Disk reads/writes JVM crashes

AppDynamics Infrastructure Visibility

Server Visibility

Server visibility (Licensed separately) leverages on machine agent to provide visibility into local processes, services, extended hardware metrics and overall resource utilization within the server. It gives you additional UI in the controller to view server performance metrics.

Server visibility is currently available for Linux, windows and Solaris Operating system

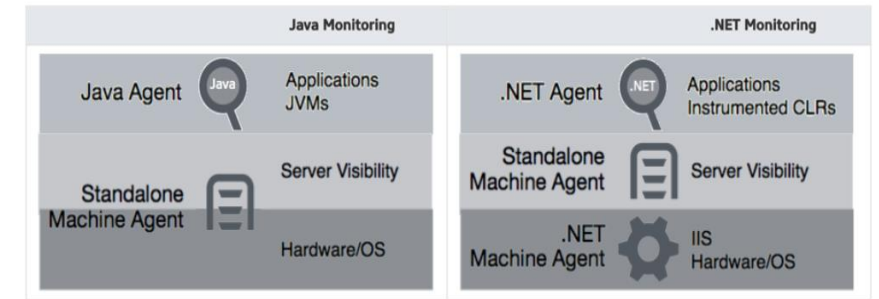**Machine Agent (Basic Machine Metrics)**

The basic machine agent (without server visibility license) will collect basic hardware metrics from the server Operating system such as CPU, Memory utuilization, throughput on the network interface, disk and network IO. It also supports extensions and custom metrics

Network Visibility **

AppDynamics Infrastructure Visibility

Feature Comparison

Feature	Server Visibility	Machine Agent
Supported Platforms	Linux, Windows, Solaris	Linux and Unix-like systems, MacOS, and Windows
Extensions and Custom Metrics	Yes	Yes
Monitor Docker container metrics from the Docker host	Yes	No
Tier Metric Correlator	Yes	No
Dynamic Monitoring Mode	Yes	No
JVM Crash Guard	Yes	Yes
Remediation Scripts	Yes	Yes
Licensing	Server Visibility	Machine Agent
Graphical User Interface	Yes	Functionality is limited to viewing Machine Agent metrics in the Servers List
Extended Hardware Metrics	Yes	No
Service Availability Monitoring	Yes	No
Server metrics in transaction snapshots	Yes	No
Server KPIs in application flow map	Yes	No
Health rules for extended hardware metrics	Yes	No

Courtesy: AppDynamics

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The END