Applications Manager - an end-to-end application performance monitoring tool

For enterprises to stay ahead of the technology curve in today's competitive IT environment, it is important for their business critical applications to perform smoothly. [Applications Manager](#) - ManageEngine's on-premise application performance monitoring solution offers real-time application monitoring capabilities that offer deep visibility into not only the performance of various server and infrastructure components but also other technologies used in the IT ecosystem such as databases, cloud services, virtual systems, application servers, web server/services, ERP systems, big data, middleware and messaging components, etc.

Highlights of Applications Manager

Wide range of supported apps
Monitor 150+ application types and get deep visibility into all the components of your application environment. Ensure optimal performance of all your applications by visualizing real-time data via comprehensive dashboards and reports.

Easy installation and setup
Get Applications Manager running in under two minutes. Applications Manager is an agentless monitoring tool and it requires no complex installation procedures.

Automatic discovery and dependency mapping
Automatically discover all applications and servers in your network and easily categorize them based on their type (apps, servers, databases, VMs, etc.). Get comprehensive insight into your business infrastructure, drill down to IT application relationships, map them effortlessly and understand how applications interact with each other with the help of these dependency maps.

Deep dive performance metrics
Track key performance metrics of your applications like response times, requests per minute, lock details, session details, CPU and disk utilization, error states, etc. Measure the efficiency of your applications by visualizing the data at regular periodic intervals.

Code level insights and transaction tracing
With the help of our APM Insight tool (supports Java, Ruby on rails, .Net, Node.js, PHP), get deep insight into code-level issues that otherwise might go unnoticed until end users report performance issues with your application. Visualize J2EE web transactions and non web background transactions including the ones that are spawned. Take snapshots of individual transaction traces and drill down to SQL queries to detect slow running queries. With our transaction tracing functionality, measure end user satisfaction with Apdex scores.

End user experience monitoring
With synthetic transactions, simulate user behaviors across your webpage/apps, locate discrepancies in application performance (page load time, 404 errors, java script errors, total error rate,etc.). Ensure consistent application performance of your applications by tracking key end user performance metrics like time taken to perform check out transactions, LDAP search requests, download files, etc. Get at a glance view of user satisfaction details from several geographical locations.

Fault management with root cause analysis
Our application performance monitoring tool will not only help you identify issues but will also help you drill down to the root cause of issues and troubleshoot them quickly. Set thresholds for key metrics and get notified via alarms when thresholds are violated.

Real time alerts and automated actions
 Facilitate faster identification of application performance issues with the help of our immediate alerts. Reduce MTTR problems by automating corrective actions like SMS, E-mail notifications, corrective scripts/MBean operations, heap dump/thread dump/garbage collection, etc.

Anomaly detection
Monitor gradual performance degradation by defining anomaly profiles on performance metrics. Get notified when the resulting values don't conform to the user defined set of baseline values. With the help of our anomaly dashboard, view all the performance metrics and get a detailed report of when the anomaly value was reached. With our downtime scheduler, prevent monitors/services from being monitored for status during maintenance by scheduling downtime for such monitors.

500+ pre-built reports
With our comprehensive reporting functionality, identify and analyze under and over utilized servers, understand application performance trends, predict future trends based on historical data and plan resource allocation and infrastructure updates. View the forecast on growth trend up to 3 years in the future with our machine learning enabled forecast reports. You can also generate reports based on resource type: business application report, application server report, database server report, service report, server report, and custom application report. Our other types of reports include capacity planning, trend analysis, availability and health reports, inventory reports, downtime and summary reports, 7/30 reports, and much more.

Custom dashboards :
Get deep insight into critical application statistics like critical alerts, busy servers, etc. with our customized dashboards. Easily pin any charts from Applications Manager to your dashboards with the help of our out-of-the-box widgets like performance, availability and health, alarms, monitor groups, utility, etc. Also, with Applications Manager's template library, you can add multiple processes across all your applications.

Rest APIs
Integrate your internal portals with Applications Manager API. Users can login to monitor their respective applications, take a look at the alarms assigned to them, and take corrective actions. Also, manage/unmanage monitors, enable/disable/execute actions, ping, poll, configure mail/proxy servers, schedule downtimes, etc. with our REST API integrations.

SLA Management
Ensure high availability of business critical applications with Information Technology Infrastructure Library (ITIL) processes. With Applications Manager's extended support for ITIL service delivery, meet Service Level Agreements (SLA's) for all your business applications.

User management
Ease management of user accounts by creating different user roles such as users, operators, administrators, managers, delegated admins, etc. and collaborate with multiple teams efficiently.

Support for Mobile
Native mobile app is available for free for iPhone and Android users. The mobile app supports Applications Manager version 11500 or above. Track health and availability status on the go and stay informed about your application performance at all times.

Supported technologies in Applications Manager (along with versions supported):

Servers
- Windows
- Windows cluster
- Linux
- Solaris
- IBM AS400 - Up to i6.1 and above
- AIX
- HP Unix/ Tru64 Unix
- Hardware
- Free BSD
- Mac OS
- Novell

Virtualization

- VMware ESX/ESXi - ESX 3.5 and above, ESXi 3 and above
- Hyper-V - Hyper-V server 2008 and above
- Citrix Hypervisor - 5.6 and 6.2
- Citrix Virtual apps - 7.6 and 6.5
- VMware Horizon view - 3 and above
- Docker
- Kubernetes
- RHEV (coming soon)

Cloud

- AWS monitoring (EC2, EBS, RDS, SNS, Aurora, DynamoDB,ELB)
- Windows Azure
- Microsoft Azure VMs
- Microsoft Azure storage
- Microsoft Azure SQL database
- OpenStack
- Office 365

Application server monitoring:
- JBoss - 3.2.x and above
- Oracle WebLogic - 6.1 and above
- IBM WebSphere - 5.x and above
- Apache Tomcat - 3.x and above
- Microsoft .NET - 3.0 and above
- Oracle Application server - 10.1.2 and above
- SilverStream - 3.5.x and above
- GlassFish - 1.0 and above
- WildFly - Up to 14.0.1
- Resin - 3.x and above
- VMware vFabric tc server - 2.6 to 2.9
- Jetty - 3.1 and above
- Apache Geronimo - 2.1.3 and above

Database monitoring
- Oracle - 8.x and above
- MySQL - 3.23.x and above and all versions of MariaDB
- MS SQL - MS SQL 2000, 2005, 2008, 2008 R2, 2012, 2014, 2016 and 2017 versions.
- Sybase - ASE 12.5.3 and above
- IBM DB2 - 8.x and above
- IBM DB2 for I - 7.1 to 7.3
- IBM Informix - 10.x and above
- PostgreSQL - 8.1 and above
- Database Query Monitor

- SAP MaxDB - 7.8 to 7.9.09

NoSQL
- MongoDB - Upto 3.6
- Cassandra - 2.0.9 and onwards
- Redis - 2.4 and above
- Couchbase - 3,3.1 and 4
- Oracle NoSQL - Upto 4
- SAP HANA - All versions
- Apache HBase - 1.x
- Memcached - V1.2 and above

Middleware/Messaging

- IBM WebSphere MQ - 6.x
- IIB - Up to 10
- MS Exchange - 2016,2013,2010,2007,2003
- MS SharePoint - R/3
- MSMQ
- WebLogic Integration server - 8.x
- Microsoft Lync - Up to 2013
- Mircosoft BizTalk - 2013 and below and 2016
- Oracle Tuxedo - 6.5 and above
- Azure service Bus
- vFabric RabbitMQ - Up to 3.x
- Apache Kafka - 0.7.0 to 0.11.0.2
- Apache ActiveMQ - All versions

Mail servers

- **Exchange server :** 2016, 2013, 2010, 2007, 2003, and older versions.

Web services/ SOA
- Apache - 2.2.3 and above
- IIS - 5.x and above
- Nginx - 1.x and above

- PHP - 5.x and above
- Web server monitoring
- Website monitoring
- REST API monitoring
- Elasticsearch - 5.0 and above
- HAProxy - up to 1.8
- Website content monitor

Services

- Hadoop
- Oracle Coherence
- Apache Solr - Up to 7.6.0
- Ceph Storage
- JMX
- SNMP
- LDAP
- DNS
- FTP
- Apache Zookeeper - All versions
- Apache Spark
- Active Directory
- Microsoft NPS (Radius server)

ERP

- SAP - R/3
- SAP CCMS - R/3
- Microsoft Dynamics CRM - 2011 and 2013
- Oracle EBS - R11i, R12.0 and R12.2.0
- Siebel CRM - 8.0 and above
- Microsoft Dynamics AX - 2012, 2012R2, 2012R3

Agent based code level monitoring for technologies built on (PHP,Node.js - Coming soon)

Integrations:

- **Integration with OpManager:** By integrating Applications Manager with OpManager, monitor the availability and performance of both the network devices and the entire application tier using a single web console. Proactively detect untimely network failures and prevent application downtime.
- **Integration with ServiceDesk Plus :** By integrating Applications Manager with ServiceDesk Plus, fasten the process of categorizing, prioritizing, and assigning tickets to technicians by automatically logging Applications Manager alarms as tickets in ServiceDesk Plus. Make sure application performance issues are automatically logged and no ticket goes unnoticed.
- **Integration with ServiceNow :** By integrating Applications Manager with ServiceNow, create actionable incidents directly from application or servers. Automatically create, update and close tickets in ServiceNow based on performance monitoring. Make sure every incident has a clear owner and track the progress of the ticket until it's resolved.
- **Integration with Analytics Plus :** By integrating Applications Manager with Analytics Plus, generate detailed reports on alarms, monitor groups, inventory, performance data and much more.
- **Site24x7 integration :** By integrating applications Manager with Site24X7, automatically sync groups of URL(s) configured in Site24x7 with Applications Manager. Get a real time insight into the performance of your application metrics both from within your corporate LAN and from multiple locations outside your data center.
- **Integration with Alarms One :** Applications Manager integrates with Alarms One, which will help you consolidate all the alerts and group them based on the applications. Based on the nature of the alarm, subsequent actions will be automatically triggered.

Applications Manager installation prerequisites:

Hardware requirements (Windows, Linux)

Processor type	Dual core and above
Processor speed	2.4 GHz and above
Memory	4 GB RAM
HD space	60 GB

The above configuration is for 250 monitors. Higher configuration of hardware will help you manage more monitors.
*While going to production, 8GB is recommended.

Software requirements :

OS	Version
Windows	7 and above Server 2003 and above
Linux	Red Hat 8.0 and above Enterprise Linux 2.1 and above Debian/ Ubuntu/SuSe/Mandriva/CentOS/Fedora core

Web browsers: Firefox, Google Chrome, Internet Explorer and others.

Supported Database Back-ends :

Applications Manager supports PostgreSQL and MS SQL(2008 and above, standard/enterprise edition) database backends for storing all the configuration information and data collected.
SQL Server Collation: Any case-insensitive collation. For Chinese Installation use Chinese_PRC_CI_AS

Licensing:

Applications Manager comes in two licensing models: **Subscription and Perpetual.**

Product references :

Product information	https://www.manageengine.com/products/applications_manager/
Product download	https://www.manageengine.com/products/applications_manager/download.html
Live demo	https://www.manageengine.com/products/applications_manager/demo.html
Get quote	https://www.manageengine.com/products/applications_manager/get-quote.html
Forums	https://pitstop.manageengine.com/portal/community/applications-manager
Blogs	https://blogs.manageengine.com/application-performance-2/appmanager
Youtube	https://www.youtube.com/channel/UCSYrBfiRCVxslgzHb2Myq8A
Product troubleshooting	https://pitstop.manageengine.com/portal/kb/applications-manager/faq
User guide	http://help.appmanager.com/
Product overview	https://download.manageengine.com/products/applications_manager/meam_fact_sheet.pdf
Technical support	https://www.manageengine.com/products/applications_manager/request-support.html

Online store	https://store.manageengine.com/applications_manager/index.html
Training/ webinar page	https://www.manageengine.com/itom/free-training/applications-manager.html
Release notes	https://www.manageengine.com/products/applications_manager/release-notes.html
GDPR compliance	https://www.manageengine.com/products/applications_manager/appmanager-gdpr-compliance.html