Monitor and Manage Multi-Cloud Environments With SolarWinds

CLOUD ADOPTION

In an analysis of over 135,000 organizations, the results show globally, cloud adoption has reached 81% as measured by the use of cloud productivity platforms by enterprise organizations. And this trend appears to be gaining steam exponentially with each passing year.

Source – cloudstandards.org

Gartner® forecasts that worldwide public cloud revenues will grow by 6.3% in 2020. Software as a service (SaaS) remains the largest market segment and is forecast to grow to $104.7 billion in 2020. The second-largest market segment is cloud system infrastructure services, or infrastructure as a service (IaaS), which is forecast to grow 13.4% to $50.4 billion in 2020. The effects of the global economic downturn are intensifying organizations' urgency to move off of legacy infrastructure operating models.

Source – Gartner 2020

SOFTWARE AS A SERVICE (SAAS) APPLICATIONS

Many organizations have made strategic decisions to adopt SaaS applications to run their business. Common ones include Microsoft® 365 and Salesforce®. The benefits of SaaS include the ability for users to access the application from any location, no development efforts required by the customer, and the underlying infrastructure delivered by the SaaS provider. Payment for these services is by subscription and it can be treated as an ongoing operating expense rather than a capital outlay. Risks associated with SaaS include loss of control on the application, little customization of business processes, and a much higher reliance on the network connectivity between the user and the SaaS instance.

Cloud adoption has reached **81%** in enterprise organizations
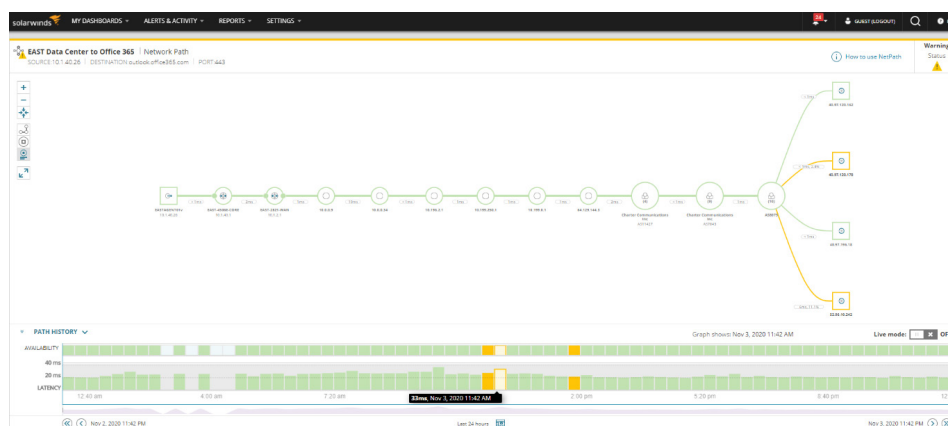
How SolarWinds Can Help

1. Monitoring of the performance and availability of SaaS applications

2. End-to-end network insight for performance and availability

Key Solutions

- Server & Application Monitor

- AppOptics™

- Web Performance Monitor

- Pingdom®

- Network Performance Monitor

INFRASTRUCTURE AS A SERVICE (IAAS)

In addition to SaaS, organizations have adopted IaaS, a fast-growing segment in cloud services. Popular IaaS providers are Microsoft Azure® and AWS®, but many other providers are used across the globe. The key services delivered are virtualized compute and storage resources, which can be deployed quickly to enable business agility. Payment for these resources is typically based on use, but this can be a complicated calculation and it can be difficult to control cloud resource sprawl.

How SolarWinds Can Help

3. Monitoring and management of cloud infrastructure compute resources

4. Cost calculations and control

Key Solutions

- Server & Application Monitor

- AppOptics

- Virtualization Manager

- Cost Calculator for Azure

SaaS and **IaaS**
lead the way
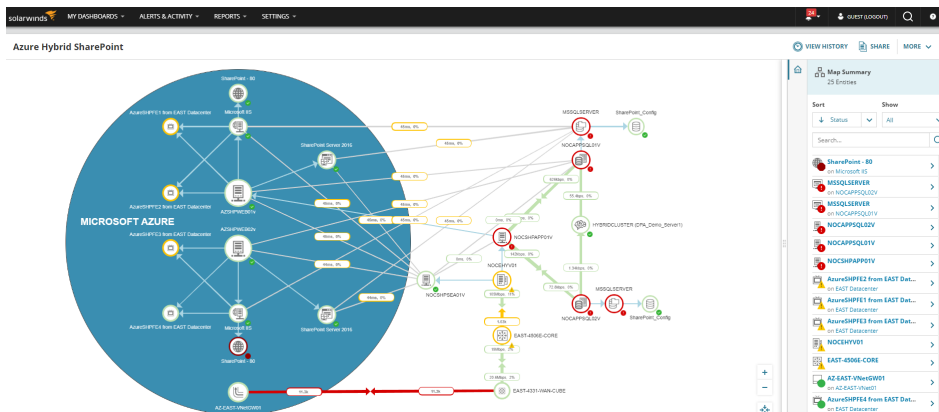
PLATFORM AS A SERVICE

Many applications rely on databases, and the underlying performance of the database is critical to the user's experience. A slow database query can degrade the performance of an application and lead to operational, financial, or reputational impacts. Like infrastructure, cloud databases can be deployed quickly and can scale as needed. Microsoft Azure and AWS offer solutions in this area.

How SolarWinds Can Help

1. Monitoring and analyzing the performance of database instances in the cloud

2. Multi-vendor database support, including

     c. Oracle Enterprise

     d. Oracle Standard

     e. Microsoft SQL

     f. Azure SQL

     g. DB2

     h. PostgreSQL

     i. SAP ASE

     j. MariaDB

     k. Amazon Aurora

     l. MongoDB

     m. MySQL

     n. Redis

Key Solutions

- Database Performance Analyzer

- Database Performance Monitor

Control cloud resource sprawl

Monitor	Database Instance ▲		Wait	Tuning	CPU	Mem	Disk	Sess	Type
Amazon (2)									
⬇ OFF	Oracle RDS	Action ▾	▮☐☐☐☐	✅	✅	✅	✅	✅	Oracle 11g R2
⬇ OFF	SQL Server RDS	Action ▾	▮☐☐☐☐	✅	✅	✅	✅	✅	MS SQL 2012
Azure (3)									
⬇ OFF	AZURE_MANAGED	Action ▾	▮▮▮▮☐	❗	✅	❗	✅	✅	Azure SQL Managed Instance
⬇ OFF	AZUREDB_S1@DEMO	Action ▾	▮▮☐☐☐	❗	✅	✅	✅	✅	Azure SQL DB Standard S1
⬇ OFF	AZUREDB_S3@DEMO	Action ▾	▮▮☐☐☐	❗	✅	✅	✅	✅	Azure SQL DB Standard S3
▸ **DB2** (3)									
▸ **MSSQLServer** (8)									
▸ **MSSQLServer Availability Groups** (1)									
▸ **MySQL** (3)									
▸ **Oracle** (3)									
▸ **Oracle Library (CDB)** (5)									
▸ **PostgreSQL** (3)									
▸ **Sybase** (2)									

CLOUD – LOG COLLECTION AND ANALYSIS

IT teams rely on log data to identify the details of what happened and when it happened. This could be in response to an incident or an audit request. The ability to quickly identify a root cause is critical when response and resolution SLAs are in place. Organizations should collect and analyze logs created by cloud-based applications and resources to assess situations.
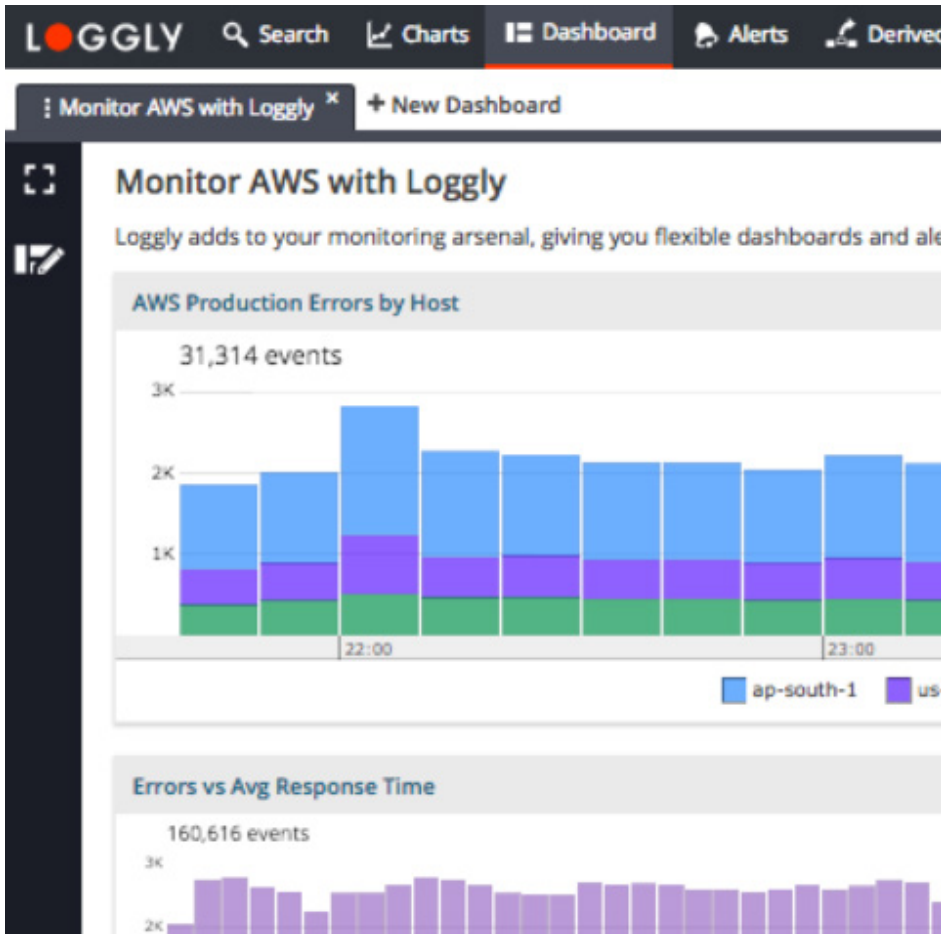
How SolarWinds Can Help

1. Collection and analysis of logs created by cloud-based applications and resources

2. Provide both on-premises and cloud offerings for a true hybrid IT multi-cloud environment

Key Solutions

- Loggly®
- Security Event Manager
- Log Analyzer

**Monitor** on-premises and cloud deployed databases

IT OPERATIONS MANAGEMENT

Hybrid and Multi-Cloud IT Operations Management

Get full ability to monitor, manage, and secure your hybrid and multi-cloud IT environments with our IT Operations Management solutions.

• Monitor your commercial and SaaS applications and custom web applications and optimize the performance of your databases, wherever they're deployed

• Assure the performance of your infrastructure from servers and containers to storage and network

• Simplify security and compliance with our access rights management, security event management, server change monitoring, and patch management tools

• Provide end-to-end management of people, process, and technology with easy-to-use and smart IT Service Management solutions

SERVICE MANAGEMENT	
APPLICATION PERFORMANCE MANAGEMENT	
DATABASE PERFORMANCE MANAGEMENT	IT SECURITY
INFRASTRUCTURE MANAGEMENT	
NETWORK MANAGEMENT	
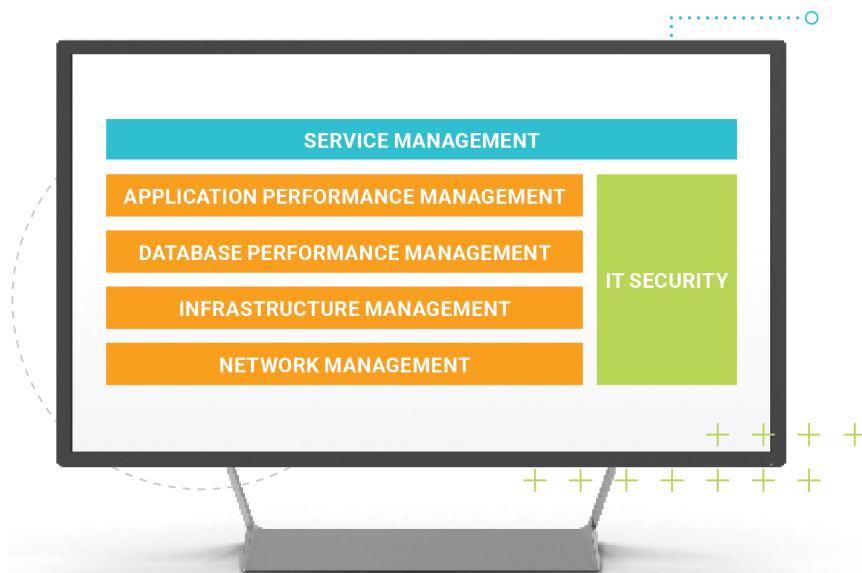
All SolarWinds products come with our award-winning Support and Enablement programs, including unlimited access to the SolarWinds Academy, our Customer Success Center, and technical support 24 hours a day, seven days a week.

Learn more at support.solarwinds.com