

Sybase Database Server Monitoring Simplified with eG Enterprise



Key Benefits

- ✓ **Generates proactive alerts** based on a variety of Sybase database server statistics that are collected and analyzed in real-time
- ✓ **Beyond the capabilities of siloed Sybase server monitoring tools**, automatically correlates end-to-end service performance with database, server, and network performance
- ✓ **Provides trending and service level reports** so you can assess the current capacity of your infrastructure
- ✓ **Eliminates finger-pointing among IT administrators** by ensuring that problems are easily and rapidly isolated to specific application tiers



eG Enterprise has been incredibly useful and has far exceeded our expectations. Metrics relating to SQL and missing indexes have provided critical information that we had long suspected were performance issues. Now we have the information to address specific performance challenges.

Pejman Farahi
Applications Specialist, Aird Berlis



Importance of Monitoring Sybase Database Servers

Databases are widely used as backends for web applications, for creating reports with business intelligence statistics, forecasting, and more. Since applications rely on database servers for their functioning, fast database access is a must for good application performance. To detect database performance issues proactively and to troubleshoot issues accurately, DBAs and IT admins need comprehensive visibility into database performance and query-level insight.

COMPONENTS	NETWORK AVAILABILITY (%)	CPU USAGE (%)	MEMORY USAGE (%)	DISK READS Avg (MB/sec)	DISK WRITES Avg (MB/sec)	USER CONNECTIONS (Current)	ROOT BLOCKERS (Blocked)	UPTIME (Minutes)	SERVICE AVAIL. Avg (%)
Insights-SYBASE01-21000-VW2 USP	100	48.96	94.92	216.22	993.72	119	0	26 Days 12 Hrs 56 Mins 54 Secs	
SYBASE01-26000-VW17 POD	100	12.91	93.70	0.25	6.50	91	0	1 Min 13 Days 4 Hrs 22 Mins 12 Secs	
SYBASE01-21000-VW2	100	12.89	74.91	9.50	3	116	0	20 Hrs 48 Mins 15 Secs	
SYBASE01-22000-VW3 USP	100	1.60	87.46	3.50	9.50	86	0	10 Days 7 Hrs 8 Mins 15 Secs	
SYBASE01-23000-VW4 POD	100	1.59	88.64	0	44.98	82	0	5 Mins 22 Days 19 Hrs 57 Mins 33 Secs	
SYBASE01-25000-VW5 USP	100	0.64	91.09	3.50	1	99	0	11 Mins 7 Days 7 Hrs 57 Mins 32 Secs	
SYBASE01-27000-VW6	100	0.68	90.26	0	13.75	94	0	2 Mins 19 Days 2 Hrs 42 Mins 42 Secs	
SYBASE01-28000-VW5 USP	100	50.89	85.54	1.25	3.25	26	0	3 Mins 14 Days 11 Hrs 24 Mins 42 Secs	
SYBASE01-31000-EU1 USP	100	41.43	85.48	0	0	77	0	6 Mins 12 Days 2 Hrs 3 Mins 58 Secs	
SYBASE01-40000-EU1 USP	100	1.24	92.11	11.50	1	19	0	6 Mins 20 Days 14 Hrs 23 Mins 55 Secs	
SYBASE01-24000-VW5 USP	100	3.77	89.78	0	3.50	134	0	4 Mins 19 Days 13 Hrs 36 Mins 42 Secs	
SYBASE01-31000-EU1 USP	100	2.22	64.36	0.50	1.50	6	0	6 Mins 12 Days 2 Hrs 25 Mins 9 Secs	
SYBASE01-31000-EU1 USP	100	2.54	59.24	0	0.98	0	0	6 Mins 12 Days 3 Hrs 11 Mins 46 Secs	

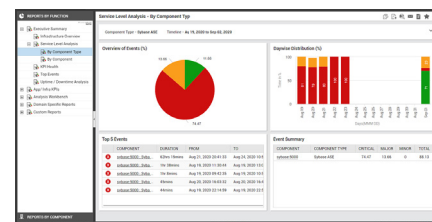
With eG Enterprise:

- Administrators can monitor Sybase ASE (SAP Adaptive Server Enterprise), Oracle, Microsoft SQL, MySQL, MongoDB, IBM DB2 UDB, SAP HANA and others from a central web console.
- They get visibility into all aspects of database performance - workload, configuration, memory buffers, I/O operations, queries, deadlocks, etc.
- Auto-correlate database performance with that of the OS, virtualization, and storage tiers, automate and accelerate the discovery and diagnosis of database issues.

eG Enterprise's wide range of Sybase database server monitoring capabilities

Troubleshoot slow Sybase performance with in-depth analytics

- Monitor transactions to all the databases on a server
- Identify top queries by I/O activities, CPU usage, memory usage. Highlight username, application, and terminal used for each query
- Identify long running queries



- Track missing and unused indexes and identify ways to optimize the database for best performance
- Monitor fragmentation level of database tables and indexes, and be proactively alerted to situations when online/offline tuning of the database is required

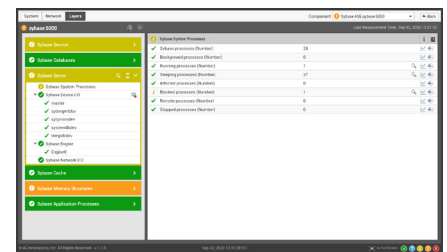
Analyze database space and log usage on Sybase database servers

- Monitor space usage by file groups; determine when the free space in a file group drops below acceptable limits
- Track usage of the tempDB; see if the tempDB is running out of space
- Report on databases, using excessive transaction log space.
- Identify if the I/O activity is not balanced and if additional data files are required to balance the I/O activity



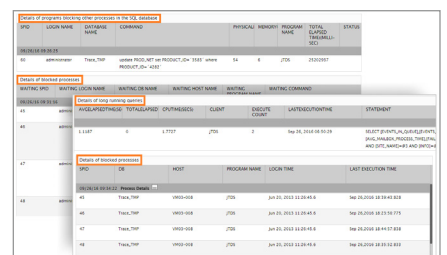
Monitor the user activities to Sybase database servers

- Track the workload to the database server and transaction rates
- Report on all active application/user connections to the database server and queries being processed
- Track if there is a database connection leak that is leaving orphaned connections to the database server
- Report on top queries to the database server by application/client, categorized by CPU, memory and I/O time used



Identify lock and wait events that slow Sybase performance

- Track all connections to the database server by state and identify connections that are waiting for other connections
- Report on root-blockers – i.e., queries that are blocking other queries. historical insights, root-blockers by SPID and queries issued
- Get alerted to deadlocks during query processing
- Monitor all types of waits happening on the database server
- Monitor data cache hit ratio and procedure cache ratio



About eG Innovations

eG Innovations is dedicated to helping businesses across the globe transform IT service delivery into a competitive advantage and a center for productivity, growth and profit. Many of the world's largest businesses use eG Enterprise to enhance IT service performance, increase operational efficiency, ensure IT effectiveness and deliver on the ROI promise of transformational IT investments across physical, virtual and cloud environments.