

Ecosystem Diagnostics

Insights into performance to make better decisions



Overview

Ecosystem Diagnostics is a data-driven service to understanding your SAS® environment. Historically, it has been a challenge to answer:

- What is the scope and impact of the SAS environment?
- Who uses SAS, and for what purpose?
- Is the SAS environment right-sized (compute, storage, network)?
- How do you best future-proof your analytics investment?

Not having answers to these questions results in unnecessary costs and inefficient use of infrastructure, poor productivity from long-running SAS jobs, and little insight of how to meet business needs.

SAS experts will work with you, implementing Ecosystem Diagnostics tools to take an inventory of your SAS environment and continuously monitor usage. The resulting information often leads to near-term cost savings, productivity enablement, and an informed strategy for analytics transformation.

Key benefits

- **Greater insight** – about the utilization of your installed SAS environment.
- **Reduce costs** – by using fact-based insights, including frequency of use of each SAS program and data set, to result in potential optimization.

- **Optimize infrastructure** – by ensuring you have the compute, storage and network power to meet present and future needs.
- **Improve efficiency** – by drilling through to individual jobs or users, to see if jobs and interactive sessions are behaving as expected.
- **Streamline analytics transformation** – with identification of workloads and users who are the best candidates to transform to cloud.
- **Accelerate time-to-value** – by provisioning for new and existing use cases.

We'll provide a detailed report outlining potential areas to reduce costs and improve efficiency, and a recommended starting point for an analytics transformation. The report will identify key metrics about your SAS system, including:

- Distinct SAS users.
- User segmentation.
- Average concurrent sessions.
- CPU utilization, wait time and saturation.
- Memory utilization.
- Workload segmentation.
- Current inventory report.
- Profile report (job types, SAS procedures used).

Solution

How does it work?

Ecosystem Diagnostics is implemented by you with the help of SAS experts. It consists of the following process:

- **Discover:** Deploy SAS®9 Content Assessment and SAS Enterprise Session Monitor to scan the environment and capture consumption detail, respectively. With SAS Enterprise Session Monitor, agents are installed on environments to capture all consumption detail (typically, an agent consumes less than 20% of a CPU). A server to capture data is required, which is typically a four- or eight-core machine.
- **Identify:** Data, once anonymized, is sent to SAS for analysis. Resources and workloads that are the best candidates for optimization and analytics transformation will be identified.
- **Evaluate:** Evaluate candidates for technical parity and change effort required.
- **Repeat:** Iterate discover, identify, evaluate and transform process.

Commitment

A typical Ecosystem Diagnostics process by SAS lasts 10 to 12 weeks, with most of the time allowing for data capture. In some cases, meaningful recommendations can be made after four weeks of monitoring.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
CUSTOMER + SAS ACTIVITIES										
Team kickoff	█									
Install & config monitoring agents	█	█								
Install & execute Content Assessment (scan environment)		█								
Send SAS Content Assessment data			█							
Send monitored data					█				█	
Wrap-up/Recommendations										█
PASSIVE ACTIVITIES										
Passive data collection		█	█	█	█	█	█	█	█	█
SAS ACTIVITIES										
Processing/analysis of data			█	█	█	█	█	█	█	█
Working sessions/Interviews (if needed)					█	█	█			
Value analysis						█	█	█	█	█

Want to get started with Ecosystem Diagnostics?

Your SAS account executive can connect you with the appropriate SAS personnel.

