



VANTIS MONITOR
FOR Z

Pre launch 2024

The disciplines of performance and capacity planning are of vital importance in a large DATACENTER with a z/OS mainframe environment, given the inherent costs of this platform. Keeping these costs under control and reducing them become crucial missions. With this in mind, Vantis is developing the “Vantis Monitor for Z” product, hereinafter referred to as VM4Z, within the “ISV SUCCESS” program in partnership with Microsoft.

Among the main differences and advantages of this product we highlight:

Collecting performance data in near-time (less than 1 second delay);

Direct extraction to the Azure Monitor platform, in the Cloud, where all processing is carried out, resulting in minimal consumption in the z/OS environment;

Pre-configured dashboards in Azure Monitor, which can be changed and new ones that can be configured;

The creation of alerts for proactive actions in Azure Monitor, making it possible to integrate with Ticket systems (such as Maximo, among others), sending “mobile PUSH MESSAGES”, SMS, etc.;

The WEB application, pre-configured with SMF and CICS record layouts, where the customer can select the types, subtypes, sections and fields of SMF records, as well as the CICS performance classes and their fields to be collected. VM4Z already offers a pre-configured set to meet the vast majority of needs.

VM4Z is installed as a subsystem on z/OS, and, during its initialization, data buffers are allocated in Dataspaces, thus obtaining maximum performance, without compromising the use of common (E)CSA memory.

VM4Z also installs two EXITS:

The first, which has access to each record that is being pushed to the SMF Write Buffer. This record is analyzed and filtered as configured in the WEB application. Thus, only the necessary records are moved to the buffers in the Dataspaces.

The second, which has access to CICS performance data, before it is compressed to be sent to SMF. This EXIT selects and sends only the fields configured in the WEB application. The fact that it is executed before the record is sent to the SMF has two advantages:

- 1) No need to decompress SMF record 110, newly compressed by CICS, meaning CPU savings
- 2) There is no dependency on the dictionary that describes SMF record 110 (CICS).

VM4Z allows the configuration of one or more Address Spaces called Extractors to extract this data. Each Extractor can be configured with one or more sub-tasks, called Collectors. Each Collector can be of the SMF or CICS type (at least 2 Collectors are required to collect data from SMF and CICS. Data spaces are used directly as Buffers for TCP/IP to send to remote destinations in the Cloud, meaning there is no need for intermediate buffers. The result is maximum efficiency with negligible consumption on z/OS.

The above summary allows us to see that VM4Z is the ideal solution for the performance and capacity planning disciplines in a DATA-CENTER with z/OS.