Vallum Halo Manager is an enterprise IT infrastructure monitoring solution that allows organizations to seamlessly monitor their entire IT infrastructure (On-premise and cloud) and commercial IoT for availability and health. Halo Manger supports servers, virtual machines (VMs), cloud instances, embedded IoT devices, containers, network equipment, applications, and databases. Halo Manager has a unique decentralized architecture that is highly scalable and operates independently without the complex central server that is found with other IT infrastructure solutions.

Halo Manager's functionality is provided by small portable microservice applications called Halo Apps. Halo Apps can have a myriad of capabilities and are designed to be remotely deployed by organizations to where they are needed. Halo Apps allow organizations to tailor Halo Manager to their specific needs in a manner that other solutions are not capable of. Think of installing apps on your mobile phone and you understand the concept. Once Halo Apps are installed, there is nothing that needs to be configured on either side. They will begin to function and produce their data. If a functional capability does not exist, a new Halo App can be developed in a short period of time.

Vallum Software is currently conducting select deployments of its solution. If your organization would like to be a part of these initial deployments, please us on our Contact Page on our website.

Continuous Availability and Network Monitoring

The Halo Manager polls a configurable list of devices, each with a Halo Agent and Halo Apps installed, determining their availability state. Data is continuously collected from the devices at defined intervals and transmitted. In environments with high latency and intermittent communications, Halo Manager can store the data and transmit it when communications become available.

Device Auto-Discovery

Halo Manager includes a comprehensive "Device Auto-Discovery" function that scans the network for new devices without utilizing the IT ping utility program. The modes and rates of the "Auto-Discover" can be configured by the user. This feature greatly reduces the setup time of the Halo Manager Solution and allows it to immediately begin to function after it is installed without any complicated scripting or additional configuration.

Self-Healing

Halo Manager's architecture allows for the deployment of Halo Apps that are reactive in their capabilities. When a network issue is identified, Halo Manager can immediately take action to resolve an device issue without human intervention. The self-healing capabilities of Halo Manager eliminates the time delay in having people analyze and resolve issues, and the potential of human error.

Helpdesk Ticketing

Halo Manager generates helpdesk tickets from events and metrics originating from the devices. Most helpdesk ticketing systems with an API are supported. The alerting capabilities provide a simple method to determine when devices are unavailable or in danger of becoming unavailable, or when any collected metric has exceeded a threshold.

Embedded Devices

Halo Manager supports embedded commercial IoT devices such as surveillance cameras, Raspberry Pi, Arduino, and those in industrial, manufacturing, agriculture, and 3D-Printing. Many of these devices are critical to operations and need to be operationally monitored. Halo Manager monitors the health of these devices, augments their data, and provides on-device data analytics. These capabilities provide operational visibility and data flexibility to these devices, allowing their data to be securely joined with traditional IT.

Scalable Operation

The decentralized architecture of the Halo Manager solution makes it highly scalable. Specialized Halo Apps called Halo Polling Apps installed to Halo Agents manage up to 256 devices. Additional Polling Apps can be installed on different subnets or networks scaling the monitoring capabilities to tens of thousands of devices. All of the components have a small footprint and are remotely managed from a single point of control, and they can function independently in the event of communication outages.

Customizable Functionality

The Halo Manager architecture is functionally customizable with specialized microservice applications called Halo Apps. Halo Apps are installed on Halo Agents to extend their range of functions. Halo Apps possess a nearly endless array of capabilities, and are easily downloaded and remotely deployed. Halo Apps allow organizations to customize Halo Manager to their specific requirements, something that competing solutions on the market are not capable of. If the functionality does not exist in a Halo App, one can be developed to specific requirements in a short period of time.

Vallum Software is a software vendor of IT infrastructure monitoring solutions. Vallum's solutions deliver extensive functionality and flexibility at a much lower cost than competing solutions on the market. The unique architectural approach of Vallum's solution significantly reduce complexity and dramatically increases flexibility and functional capabilities. Vallum's solution can replace the complex array of tools that organizations are currently using to monitor their IT infrastructure. Vallum Software represents an alternative to the overpriced and limited functional capabilities of competing solutions.

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