RoboMon for OpenVMS - Maestro OpenVMS Extended Agent

Automated management for Tivoli's Maestro OpenVMS Extended Agent

Introduction

Tivoli's Maestro (also known as Tivoli Workload Scheduler) is a cross-platform scheduling solution that can schedule jobs on a variety of platforms based on many criteria, including cross-platform dependencies.

The Maestro OpenVMS Extended Agent allows Maestro to schedule jobs on a VAX/OpenVMS or Alpha/OpenVMS system, just as with any other supported operating systems. The OpenVMS machine can be hosted by any Maestro (UNIX or Windows NT) master or FTA cpu.

The Maestro OpenVMS extended agent (x-agent) provides the ability to schedule jobs on any OpenVMS node from a Maestro host cpu. Jobs can be scheduled as any OpenVMS user and can be directed to execute in any OpenVMS batch queue. The x-agent supports defining job or schedule dependencies on the existence of an OpenVMS file.

Maestro Components

When Maestro wants to run a job on a particular system (cpu), it looks at the cpu definition specified by the user to see what kind of agent will take care of the request.

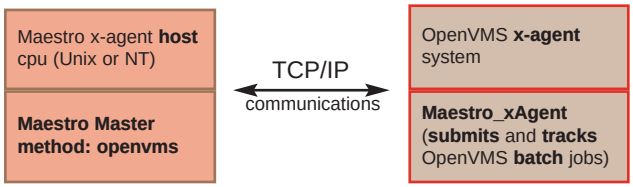
The different types of agent are:

a) Master - the main Maestro system containing scheduling databases, etc.
b) Fault Tolerant Agent (FT agent) - other Maestro systems, which possess copies of the database as downloaded to them from the master.
c) Extended Agent (x-agent) - a system running x-agent software that performs tasks as directed by either the master or an FT agent running an appropriate access method

The OpenVMS Maestro functionality is implemented as an x-agent.

Technical Overview

To accomplish job execution and file-checking on an OpenVMS node, the Maestro host cpu invokes a method program called openvms. The openvms method is an executable program that interacts with a detached process on an OpenVMS system via TCP/IP. This detached process calls operating system APIs (system services) to launch and manage the execution of the OpenVMS jobs. The openvms method has a supporting detached process called Maestro_xAgent that must be installed and started on each VMS node that will be part of the Maestro network.
Trust level security based on the standard UNIX TCP/IP hosts.equiv and .rhosts is used to determine which host CPUs and user may run jobs as which OpenVMS users.



Provided that trust is established, the x-agent will submit the job to the requested OpenVMS batch queue as the required user.

As with standard OpenVMS batch jobs, only the running of command procedures is supported. The command procedure must exist on the OpenVMS system.

Open Dependencies

An OPENS dependency in Maestro is used when a job or schedule must wait until a file is available on a specific cpu. The OpenVMS extended agent supports the OPENS dependency by allowing any job or schedule on any Maestro cpu to wait for the existence of a file on a VMS extended agent cpu.

Supported Versions of OpenVMS

The OpenVMS Maestro x-agent runs on OpenVMS V5.5-4 and above.

OpenVMS maestro x-agent access methods are available for:
Windows NT V4.0 SP3 (Intel)
Windows NT V4.0 SP3 (Alpha)
Solaris V2.5
HP-UX V9.05
IBM AIX V3.2
Digital Unix 3.0

Millenium Compliance

The OpenVMS Maestro x-agent software has been designed to be millenium compliant provided that:

1. The version of Maestro being used is millenium compliant
2. The operating system and run-time libraries running the access method are millenium compliant
3. The VMS operating system and run-time libraries that the x-agent runs on are millenium compliant. The earliest such OpenVMS release is V5.5-4 with millenium patches applied.

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