

# Symantec™ High Availability Solution for SAPHost Agent (SAPHostControl)

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## Introduction

This document describes the procedure to configure SAPHostAgent for high availability in a Veritas Cluster Server (VCS) environment, using the Application agent.

## Supported software

The Veritas High Availability solution for SAPHostAgent supports the following software versions:

- Veritas Cluster Server
- AIX–VCS 4.0, 5.0, 5.1
  - HP-UX–VCS 4.1, 5.0
  - Linux–VCS 4.1, 5.0, 5.1
  - Solaris–VCS 4.0, 4.1, 5.0, 5.1

and all intermediate Maintenance Packs of these major releases.

- Operating systems
- AIX 5.3 and 6.1 on pSeries
  - HP-UX 11iv2, 11iv3 on Itanium and PA-RISC
  - Red Hat Enterprise Linux 4.0, 5.0 on Intel and ppc64 SUSE Linux 9, 10, 11 on Intel and ppc64
  - Solaris 9, 10 SPARC
  - Solaris 10 x64

SAPHostAgent      SAPHostAgent (SAPNetWeaver 7.0 EhP 2 and later)

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**Note:** For more information about SAP NetWeaver and SAP Web Application Server support, see *Veritas High Availability Agent for SAP NetWeaver Installation and Configuration Guide* and *Veritas High Availability Agent for SAP WebAS Installation and Configuration Guide*.

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## Prerequisites

Before you cluster the SAPHostAgent, make sure you have completed the following installation tasks:

- Installed and configured Veritas Cluster Server (VCS). For more information about installing and configuring VCS, refer to the *Veritas Cluster Server Installation Guide*.
- Installed the SAPHostAgent, as per the guidelines provided in the SAP product documentation, on all nodes of the cluster.

## Configuring the agent for SAPHostAgent with Application agent

To configure SAPHostAgent in a Veritas Cluster Server (VCS) environment, perform the following steps:

1. Configure a parallel service group for the SAPHostAgent instance on which the SAPHostAgent is installed. For instructions on configuring parallel service groups in a VCS environment, see the *Veritas Cluster Server Administrator's Guide*.

2. Create the Application resource for the SAPHostAgent in the service group created in step 1.
3. Write custom monitor and clean scripts. For more information, refer to the sample monitor scripts in section [Custom monitor script to monitor SAPHostAgent in VCS](#) and the sample clean script in section [Custom clean script to kill processes of SAPHostAgent in VCS](#).
4. Configure the attributes for the Application agent. For more information, see the sample Application agent attributes for SAPHostAgent provided in section [Sample Application agent resource attributes for SAPHostAgent](#).

## Sample custom scripts

This section contains a sample monitor script and a sample clean script.

### Custom monitor script to monitor SAPHostAgent in VCS

```
#!/opt/VRTSperl/bin/perl

#use strict;

my @pid = `usr/bin/ps -ef|grep "/usr/sap/hostctrl/exe/sapstartsrv
pf=/usr/sap/hostctrl/exe/host_profile|usr/sap/hostctrl/exe/saphostexec
pf=/usr/sap/hostctrl/exe/host_profile|usr/sap/hostctrl/exe/saposcol -l
pf=/usr/sap/hostctrl/exe/host_profile"|grep -v grep|awk '{print \$2}'`;

if ( @pid >= 3 ) {

    exit 110;

}

else{

    exit 100;

}
```

### Custom clean script to kill processes of SAPHostAgent in VCS

```
#!/opt/VRTSperl/bin/perl
```

```
#use strict;

my @pid = `usr/bin/ps -ef|grep "/usr/sap/hostctrl/exe/sapstartsrv
pf=/usr/sap/hostctrl/exe/host_profile|usr/sap/hostctrl/exe/saphostexec
pf=/usr/sap/hostctrl/exe/host_profile|usr/sap/hostctrl/exe/saposcol -l
pf=/usr/sap/hostctrl/exe/host_profile"|grep -v greplawk '{print \$2}'`;
foreach( @pid ){

    if( $_ =~ /\d+/ ){

        `kill $_`;

        sleep 5;

    }

}

}
```

## Sample Application agent resource attributes for SAPHostAgent

In the following example configuration, SAPHostAgent is installed in the `/usr/sap/hostctrl` directory.

**Table 1-1** Application agent attributes for SAPHostAgent

Attribute	Description
StartProgram	/usr/sap/hostctrl/exe/hostexecstart
StopProgram	/usr/sap/hostctrl/exe/sapcontrol -nr 99 -function StopService
CleanProgram	/usr/sap/hostctrl/exe/clean.pl
MonitorProgram	/usr/sap/hostctrl/exe/monitor.pl

## Sample VCS configuration

The following figures illustrate a sample VCS configuration.

Figure 1-1 Properties view

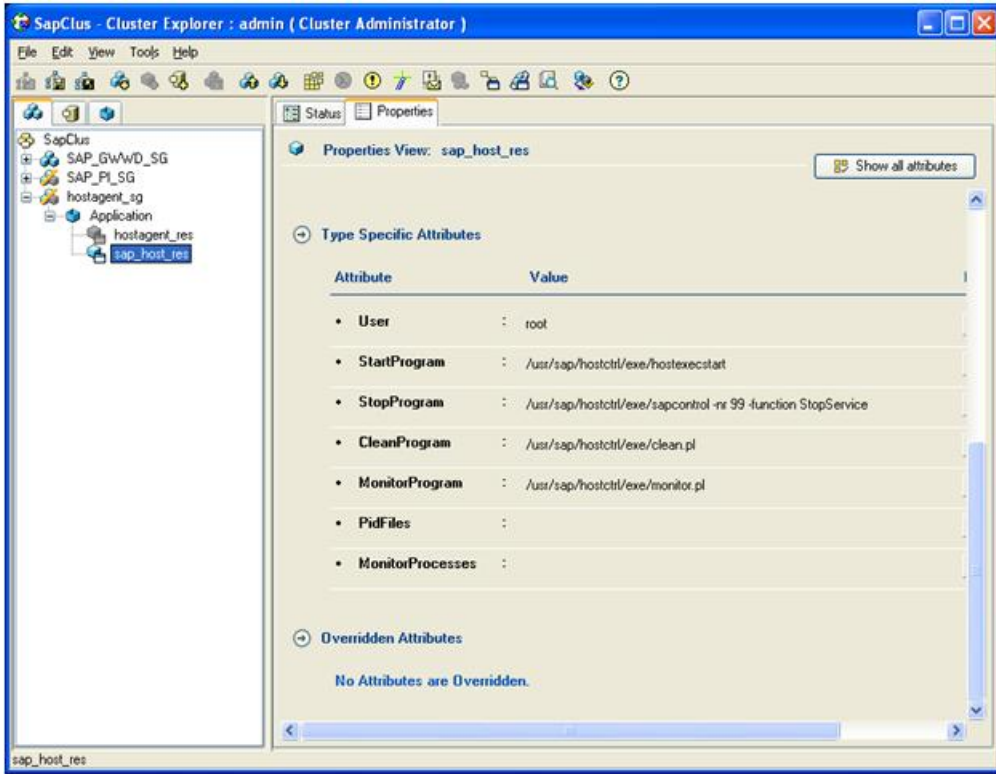


Figure 1-2 Resources view

