

## How to configure SNMP and/or SMTP notification messages from virtual machines running ApplicationHA

You can configure ApplicationHA to notify administrators or other designated users about important events such as resource or system faults.

You can configure the notification feature on a virtual machine by using the command line or by using the Veritas Operations Manager (VOM) web interface. For details on the VOM-based option, see the latest VOM documentation.

ApplicationHA includes a notifier component, which consists of the notifier process. ApplicationHA supports SNMP consoles that can use an SNMP V2 MIB. ApplicationHA also supports SMTP notifications.

The notifier process performs the following task:

- Formats the notification
- Generates an SNMP (V2) trap, or sends an email to the designated recipient, or does both.

There are four severity levels:

- SevereError
- Error
- Warning
- Information

SevereError indicates the highest severity level, while Information indicates the lowest.

**Note:** The severity-level strings are case-sensitive.

SNMP traps are forwarded to the SNMP console. Typically, traps are predefined for events such as service group or resource faults.

To configure this feature from the command line, connect to the virtual machine via RDP, putty, or similar remote management tool. You can also connect to the virtual machine via the VMware Console within the vSphere Client.

Launch a command prompt or terminal session depending on the operating system that the virtual machine is running.

### To configure SNMP/SMTP notifications on ApplicationHA guests

1. Enable writing to the virtual machine ApplicationHA configuration.  
`# haconf -makerw`
2. Add the Notifier resource to Heartbeat service group.  
`# hares -add <notifier resource> NotifierMngr <Heartbeat Service Group>`

For example:

```
# hares -add AppMonNtfr NotifierMngr VCSAppMonHBSG
```

3. Configure the SNMP notifications type.

```
hares -modify <notifier resource> SnmpConsoles <snmpserv> <severity level>
```

For example:

```
# hares -modify AppMonNtfr SnmpConsoles 10.10.1.6 Information
```

4. Enable the new resource:

```
# hares -modify AppMonNtfr Enabled 1
```

5. Configure the SMTP notifications type

```
# hares -modify <notifier resource> <SmtpServer> < SmtpServer Name>
```

For example:

```
# hares -modify AppMonNtfr EXCHSVR1 infra\_admin@company.com
```

```
# hares -modify AppMonNtfr SmtpServer EXCHSVR1
```

6. Set the type of notifications for SMTP

```
# hares -modify <notifier resource> SmtpRecipients <admin email> <severity level>
```

For example:

```
# hares -modify AppMonNtfr SmtpRecipients infra\_admin@company.com SevereError
```

7. Save the changes to the virtual machine ApplicationHA configuration.

```
# haconf -dump -makero
```

8. Bring the resource online.

```
# hares -online AppMonNtfr -sys <virtual machine hostname>
```

For example:

```
# hares -online AppMonNtfr -sys SQL2008SRV1
```

### To speed up the SNMP/SMTP notification configuration

You can speed up the above configuration by creating a batch file as follows:

Example Batch file.

```
# Enable writing to the configuration
haconf -makerw
# Add Notifier resource
hares -add AppMonNtfr NotifierMgr VCSAppMonHBSG
# Configure for SNMP
hares -modify AppMonNtfr SnmpConsoles 10.10.1.6 Information
hares -modify AppMonNtfr Enabled 1
# Configure for SMTP
hares -modify AppMonNtfr SmtpServer "smtp.example.com"
hares -modify AppMonNtfr SmtpRecipients app-admin@example.com SevereError
hares -modify AppMonNtfr Enabled 1
# Close configuration
haconf -dump -makero
# Online Resource
hares -online AppMonNtfr -sys SQL2008SRV1
```

