Readme File for IBM® Spectrum Symphony RFE 101105

Readme file for: IBM Spectrum Symphony
Product/Component Release: 7.1.2
Fix ID: sym-7.1.2-build477230-jpmc
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This solution enables a task to be sent to a service instance (SI) that is started, before it is sent to an SI that is being restarted. You can enable or disable this setting for IBM Spectrum Symphony 7.1.2 cluster, by configuring the `SOAM_SCHEDULE_TASK_TO_STARTED_SI` environment variable.

1. Scope

Before you install this enhancement in your cluster, note the following requirements:

Applicability

Operating system	RHEL 6, 64-bit
Product version	IBM Spectrum Symphony 7.1.2

2. Installation

Follow the instructions in this section to download and install this enhancement in your cluster.

Prerequisites

IBM Spectrum Symphony 7.1.2 must be installed.

Package

Name	Description
`sym-7.1.2.0_x86_64_build477230.tar.gz`	Package for management hosts. List of files: sd, ssm

Installation

a. Log on to the master host as the cluster administrator, stop applications, and stop the SD service:

```
$ soamcontrol app disable all
$ egosh service stop SD
```

b. On each management host, back up the following files:

```
$EGO_TOP/soam/7.1.2/linux-x86_64/etc/sd
$EGO_TOP/soam/7.1.2/linux-x86_64/etc/ssm
```

c. On each management host, copy the package to the `$EGO_TOP` directory and decompress the package as follows:

```
$ tar zxof sym-7.1.2.0_x86_64_build477230.tar.gz -C $EGO_TOP
```

d. Run the `sd -V` and `ssm -V` command to verify the installation. For example:

```
$ sd -V
IBM Spectrum Symphony 7.1.2 build 477230, Dec 04 2017
$ ssm -V
IBM Spectrum Symphony 7.1.2 build 477230, Dec 04 2017
```

e. You can enable or disable this enhancement for all applications by editing the `sd.xml` file manually or from the cluster management console.

- Follow these steps to enable or disable this enhancement by manually editing the `sd.xml` file:

  1) Open the `$EGO_CONFDIR/../../eservice/esc/conf/services/sd.xml` file.

  2) Configure the `SOAM_SCHEDULE_TASK_TO_STARTED_SI` environment variable. Valid value is `TRUE` or `FALSE`. Default is `TRUE`.

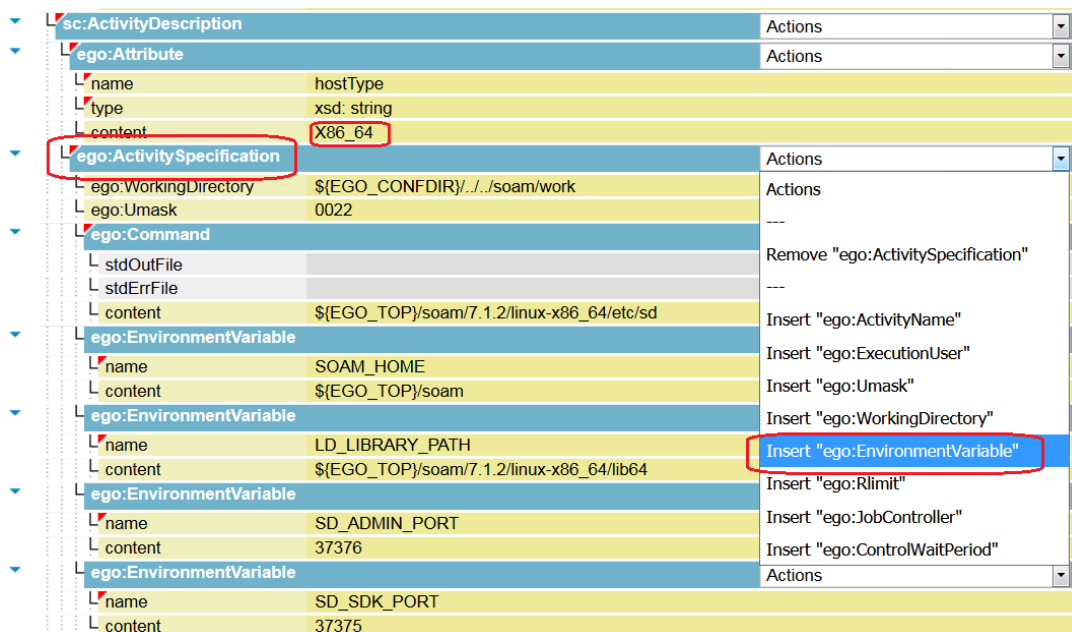   For example, to enable tasks to be sent to started SIs before being sent to restarted SIs, configure `sd.xml` as follows:

     ```
     <sc:ServiceDefinition ...>
         …
         <sc:ActivityDescription>
             <ego:Attribute name="hostType"
     type="xsd:string">X86_64</ego:Attribute>
             <ego:ActivitySpecification>
              …
             <ego:EnvironmentVariable
     name="SOAM_SCHEDULE_TASK_TO_STARTED_SI">TRUE</ego:EnvironmentVariabl
     e>

             …
             </ego:ActivitySpecification>
         </sc:ActivityDescription>
         …
     </sc:ServiceDefinition>
     ```

  3) Apply your change:

     ```
     $ egosh service modify SD -f
     $EGO_CONFDIR/../../eservice/esc/conf/services/sd.xml
     ```

- Follow these steps to enable or disable this enhancement from the cluster management console:

  1) From the Dashboard, select **System & Services > EGO Services > Service Profiles** and click **SD**.

  2) In the **ego:ActivitySpecification** section, add environment variable `SOAM_SCHEDULE_TASK_TO_STARTED_SI` and edit the value.

3) Click **Save**.

f. Start the SD service and enable applications:

```
$ egosh service start SD

$ soamcontrol app enable <appName>
```

3. Usage

When this enhancement is enabled, the SSM scheduling policy checks SI status and sends a task to a started SI before sending it to an SI that is being restarted. This update takes effect only with the R_MinimumServices scheduling policy and the R_Proportion scheduling policy; other policies are not impacted.

NOTES:

- If there are no enough started SIs, an SI that is being restarted might still be assigned to a session; this will block this session from getting newly started SIs. To avoid this issue, configure a sufficient number of prestarted SIs.

- If the multiple services feature is used, set the SI that takes a long time to start as the default service in order to start it first.

4. Uninstallation

If required, follow these instructions to uninstall this enhancement in your cluster:

a. Log on to the master host as the cluster administrator, stop applications, and stop the SD service:

```
$ soamcontrol app disable all

$ egosh service stop SD
```

b. On each management host, restore the following files from your backup:

```
$EGO_TOP/soam/7.1.2/linux-x86_64/etc/sd

$EGO_TOP/soam/7.1.2/linux-x86_64/etc/ssm
```

   c. Disable this enhancement by editing `sd.xml` manually or from the cluster management console.

   d. Start the SD service and enable applications:

```
$ egosh service start SD
$ soamcontrol app enable <appName>
```

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