Installing the Platform Symphony Client on UNIX

Platform Symphony
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Installing the Platform Symphony client on UNIX

The Platform Symphony client enables you to run client applications. It is installed on a host where a Symphony client application is to be deployed, and this host does not need to be in a Symphony cluster. The software package contains the necessary libraries and configuration files that enable the client application to run and connect to a cluster.The following steps summarize the installation of the Symphony client on a single host and the verification of the installation by running a test application.

1. Prepare to install the Symphony client.
2. Install the Symphony client on one host.
3. Configure the Symphony client.
4. Run the test application.

Prepare to install the Symphony client

1. Determine which installation file you need by finding the version of UNIX and glibc on your host.
   a) Find the version of UNIX installed on your host.

      uname -a

   b) For Linux hosts, find the version of glibc on your host.

      rpm -q glibc
2. Determine whether to install as root or non-root user.

   The installation method and file you need depends on your user account permissions.
3. Download the appropriate file from the Platform FTP site.

   - To install in a UNIX host, or as non-root in a Linux host, download the appropriate `tar.gz` file for your environment from the Platform FTP site.
   - To install as root in a Linux host, download the appropriate `.rpm` file for your environment.

   Note:

   Linux root users can install using either the tar.gz or .rpm installation files.

Install the Symphony client on one host

If you have root privileges in a Linux host, you can install the Symphony client with the RPM file or the `tar.gz` file.

If you do not have root privileges, or you are in a UNIX host, use the `tar.gz` installation file.

Install the Symphony client using the tar.gz file

1. Install the Symphony client by using the `tar.gz` file.

tar -zxf *install_file*.tar.gz

2. Configure `SOAM_HOME` in `cshrc.symclient` or `profile.symclient`.
   a) Go to the `conf` directory in the directory in which the Symphony client was installed.

      For example, if you installed the Symphony client in `/opt/symphonyClient/clientversion_number`, go to `/opt/symphonyClient/clientversion_number/conf`.
   b) Set the `SOAM_HOME` environment variable to the directory in which you have installed the Symphony client.

      For csh, edit `cshrc.symclient` and change the following line to the directory in which you installed the Symphony client:

      ```
      setenv SOAM_HOME $SOAM_HOME
      ```

      For example

      ```
      setenv SOAM_HOME /opt/symphonyClient/clientversion_number
      ```

      For bash, edit `profile.symclient` and change the following line to the directory in which you installed the Symphony client:

      ```
      SOAM_HOME=$SOAM_HOME
      ```

      For example

      ```
      SOAM_HOME=/opt/symphonyClient/clientversion_number
      ```

Install the Symphony client using RPM (Linux root only)

If you have root permissions on a Linux host, you can install using the default settings.

1. Define the cluster administrator account by setting the CLUSTERADMIN variable.

   For example,

   setenv CLUSTERADMIN egoadmin
2. Run RPM.

   rpm -ivh *install_file*.rpm

Customize your installation

To install as root without using the default `dbpath` or installation directory, use the dbpath and prefix options.

1. Define the cluster administrator account by setting the CLUSTERADMIN variable.
2. Run RPM.

   rpm -ivh --prefix *linstall_dir* --dbpath *dbpath_dir install_file*.rpm

> **Note:**
>
> If you install RPM without these options, the Symphony client is installed under `/opt/symphonyClient/clientversion_number`.

Configure the Symphony client

1. Navigate to the `conf` directory under the directory in which you installed the Symphony client.

   For example, if you installed the Symphony client in `/opt/symphonyClient/client`*`version_number`*, navigate to `/opt/symphonyClient/client`*`version_number`*`/conf`.
2. Configure the cluster's entry point in `ego.conf`.
   a) Specify the master candidate host list

      For example

      ```
      EGO_MASTER_LIST=HostM
      ```
   b) Specify the EGO `vemkd` daemon port number.

      For example

      ```
      EGO_KD_PORT=7870
      ```
3. Source the environment.

   For csh,

   source cshrc.symclient

   For bash,

   . profile.symclient

Run the test application

The Symphony client package contains a test application that sends Symphony workload to the cluster.

1. Run the test application to ensure your system is working properly.

   For example

   symping

   If you see tasks sent and output received, and all tasks have run, everything is working properly in your system.