# The deployment of Galaxy

## 0 Prerequisites

All the binaries are run under .NET Framework 2.0. Please make sure that you have it installed on your machine.

You can get all the following binaries under \\wsm-ws-39\Share\Galaxy\ (User: Public, Password: abcd1234!).

## 1 Process Node Service

Get the binaries from \\wsm-ws-39\Share\Galaxy\GalaxyPNService\.

The process node is currently implemented using Windows Service which has the following attributes:

* Display Name: Galaxy Process Node
* Service Name: GalaxyPNService
* Account: Local System
* Startup Type: Automatic

### 1.1 Setup the configurations

You can find a sample configuration file from \\wsm-ws-39\Share\Galaxy\GalaxyPNService\ProcessNodeService.exe.config

* Port

This item is the listening port of the service. You can choose any free port for it.

* DataDirCount

This item is the count of the data directories (N). There should be N DataDir and DataDirShareName items from 1 to N.

* DataDirN (N is a number)

This item is the data root directory of the service.

* DataDirShareNameN(N is a number)

If you share the data root directory, you can directly open the output directory of a job from Job Distributor. This item is the share name of the data root directory.

* MaxJobCount

This item is the maximum concurrent running jobs on the process node. Other jobs will be waiting and scheduled to be run.

* MaximumJobIdleTime

This item is the maximum idle time for each job. Sometimes we use it to detect the run-time-error of a job.

### 1.2 Install the service

Run *Reg.cmd*

### 1.3 Uninstall the service

Run *UnReg.cmd*

## 2 Job Distributor

Get the binaries from \\wsm-ws-39\Share\Galaxy\JobDistributor\

### 2.1 Install

Run *Reg.cmd*

### 2.2 Setup the configurations

* ListeningPort

This item is the listening port of the binary. You can choose any free port for it.

* ProcessNode/Name

This item is the name of the process node instance. You can select any literal string you like.

* ProcessNode/MachineName

This item is the name of the target machine which hosts the process node service.

* ProcessNode/Port

This item is the port of the target process node service.

### 2.3 UnInstall

Run *UnReg.cmd*

## 3 Remote Controller Service

Get the binaries from \\wsm-ws-39\Share\Galaxy\GalaxyRCService\.

The remote controller is currently implemented using Windows Service which has the following attributes:

* Display Name: Galaxy Remote Controller Service
* Service Name: GalaxyRCService
* Account: Local System
* Startup Type: Automatic

### 3.1 Setup the configurations

You can find a sample configuration file from \\wsm-ws-39\Share\Galaxy\GalaxyRCService\RemoteControllerService.exe.config

* Port

This item is the listening port of the service. You can choose any free port for it.

* LogFile

This item is the log file of the service.

### 3.2 Install the service

Run *Reg.cmd*

### 3.3 Uninstall the service

Run *UnReg.cmd*

## 4 Remote Command

Like the cmd.exe of windows, but it can control remote machines.

Get the binaries from \\wsm-ws-39\Share\Galaxy\RemoteCmd\

### 4.1 Install

Run *Reg.cmd*

### 4.2 Setup the configurations

* Port

This item is the listening port of the binary. You can choose any free port for it.

### 4.3 UnInstall

Run *UnReg.cmd*

## Document History

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| --- | --- | --- |
| **Date** | **Alias** | **Description** |
| Dec 06, 2006 | guomxin | Guomao has finished the draft version |
| Dec 11, 2006 | guomxin | Update the configurations of ProcessNodeService |
| Dec 19, 2006 | guomxin | Add RemoteControllerService && RemoteCmd |
| Dec 31, 2006 | guomxin | Remove the usage of the tools to GalaxyToolsTutorial.docx |
| Jan 21, 2007 | guomxin | Using Reg.cmd and UnReg.cmd |