

# SystemService

## Unix/Linux system service module

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## 1. Overview

**SystemService:** *Unix/Linux system service module*

SystemService uses the `/etc/init.d/` scripts to manage services, optionally via `sudo`.

## 2. Design

### Super Type Service

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>
Notification	<b>false</b>
Template Directory	
Data View	Children, proximity: <b>1</b>
Logger Name	SystemService

## 3. Constraints

### 3.1. Allowed Child Dependencies

- Package
- Service
- [SystemServiceScript](#) 1
- [SystemServiceUseSudo](#) 1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

### 3.2. Allowed Parent Dependencies

- Node
- Site

## 4. Attributes

### 4.1. Defaults for Imported Attributes

Name	Default
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systemServiceUseSudo	true
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## 5. Commands

### Note:

Commandline options displayed in square brackets "[]" are optional. If an option expects arguments, then angle brackets are shown after the option "<>". Any default value is shown within the brackets.

### 5.1. assertServiceIsDown

*Check whether the specified system service is down*

#### Usage

```
assertServiceIsDown [-script <>] [-usesudo <>]
```

#### Options

Option	Description
script	<i>System service script</i>
usesudo	<i>Whether or not to use sudo</i>

### 5.2. assertServiceIsUp

*Check whether the specified system service is up*

#### Usage

```
assertServiceIsUp [-script <>] [-usesudo <>]
```

#### Options

Option	Description
script	<i>System service script</i>
usesudo	<i>Whether or not to use sudo</i>

### 5.3. startService

*Start the specified system service*

#### Usage

```
startService [-script <>] [-usesudo <>]
```

#### Options

Option	Description
script	System service script
usesudo	Whether or not to use sudo

## 5.4. stopService

Stop the specified system service

### Usage

```
stopService [-script <>] [-usesudo <>]
```

### Options

Option	Description
script	System service script
usesudo	Whether or not to use sudo

## 6. Related Types

The following types are defined for use with SystemService.

### 6.1. SystemServiceSetting

#### 6.1.1. Overview

**SystemServiceSetting:** *An System Service setting.*

#### 6.1.2. Design

##### Super Type Setting

Role	<b>Abstract.</b> (Objects cannot be created.)
Instance Names	<b>Unique</b>

#### 6.1.3. Constraints

##### 6.1.3.1. Allowed Parent Dependencies

- [SystemService](#)

## 6.2. SystemServiceScript

### 6.2.1. Overview

**SystemServiceScript:** *The name of the system service script in /etc/init.d*

This must be set in order to use this module directly. You can also set an attribute-default for systemServiceScript in your subtype.

### 6.2.2. Design

#### Super Type

[SystemServiceSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.2.3. Attributes

#### 6.2.3.1. Exported Attributes

Name	Property
systemServiceScript	settingValue

## 6.3. SystemServiceUseSudo

### 6.3.1. Overview

**SystemServiceUseSudo:** *Indicate whether sudo should be used to run the commands necessary to manage system services*

Defaults to true.

### 6.3.2. Design

#### Super Type

[SystemServiceSetting](#)

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.3.3. Attributes

#### 6.3.3.1. Exported Attributes

Name	Property
systemServiceUseSudo	settingValue