Service Extension for Config5

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Chapter 1. Introduction

1.1. Overview

The Service Extension is a simple wrapper around the **service** and **chkconfig** commands. It provides the service change to efficiently control system services with Config5.

1.2. Examples

Services can be added and removed, enabled and disabled on reboot and started and stopped as shown in the following example spec file:

RedHatEnterpriseServer:
service add otrs
service remove NetworkManager
service enable network
service disable httpd
service start mysqld
service stop httpd

Chapter 2. Installation and Customization

2.1. Installation

This extension is contained in the archive extensions/service.tgz which is part of the Config5 distribution. Simply extract this archive in the deploy directory.

2.1.1. Files

The following files are included in the archive:

- etc/extensions.d/service.pl
- lib/perl/Config5/Change/Extensions/Service.pm
- lib/perl/Config5/Action/Extensions/Service.pm

2.2. Settings

This extension does not have any configurable settings.

Chapter 3. Changes

3.1. Changes

This extension provides the service change which can manipulate system services:

Synopsis	service [-ntT] action service

The parameter service specifies the name of the service to manipulate. The parameter action specifies what to do:

add Add the service to the list of existing services.

remove Remove the service from the list of existing services.

enable Set the service to automatically start when the system starts.

Set the service to remain stopped when the system starts.

start Immediately start the service if it is not running already.

stop Immediately stop the service if it is running.

Example 3.1. Service Manipulation

```
sample:
    service add httpd
    service enable httpd
    service start httpd
```

3.2. Configuration Application

3.2.1. Phase

The service changes are applied in the configure phase.

3.2.2. Order and Application

All service changes of a pass are applied in the order the changes are encountered during the parsing of the spec files.

The extension caches service status information. Mixing service and execute changes to manipulate services is not supported.

3.2.3. Trigger Flag

The the trigger flag for triggered changes is set when a service is effectively added, removed, enabled, disabled, started or stopped.

3.2.4. Root Directory

Changes of this extension are only applied if the root system information item is equal to /.

Appendix A. Error Messages

A.1. System Errors

System errors are fatal, no changes will be done to the system.

Cannot get list of services

The list of enabled services could not be determined by running ${\bf chkconfig}$

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A.2. Configuration Data Errors

Configuration data errors are fatal, no changes will be done to the system.

Invalid action '...' in ...

The action must be add, remove, enable, disable, start or stop.

A.3. Configuration Application Errors

The following errors are reported for changes as they are applied but do not interrupt the application of other changes.

Failed to ... service 'service'

The named service could not be added, removed, enabled, disabled, started or stopped.