

Rdb

A relational database service

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1. Overview

Rdb: *A relational database service*

2. Design

Super Type Service

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

3. Constraints

3.1. Allowed Child Dependencies

- [RdbConfigFile](#) 1
- [RdbExportDir](#) 1
- [RdbInstallRoot](#) 1
- [RdbInstanceName](#) 1
- [RdbPassword](#) 1
- [RdbSchema](#)
- [RdbSchema](#)
- [RdbStrategyModule](#) 1
- [RdbUserName](#) 1

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

3.2. Allowed Parent Dependencies

- Node
- [RdbDataBuilder](#)
- Site

4. 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.

4.1. assertServiceIsDown

Confirm the Rdb service is down.

Usage

```
assertServiceIsDown -installroot <> [-instance <>]
[-rdbservicepassword <>] [-rdbserviceusername <>] [-strategy <>]
```

4.1.1. Options

Option	Description
installroot	<i>path to database install</i>
instance	<i>Instance name</i>
rdbservicepassword	<i>Database user's password</i>
rdbserviceusername	<i>Database user name</i>
strategy	<i>Database strategy name</i>

4.2. assertServiceIsUp

Confirm the Rdb service is process is running.

Usage

```
assertServiceIsUp -installroot <> [-instance <>]
[-rdbservicepassword <>] [-rdbserviceusername <>] [-strategy <>]
```

4.2.1. Options

Option	Description
installroot	<i>path to database install</i>
instance	<i>Instance name</i>
rdbservicepassword	<i>Database user's password</i>

rdbusername	Database user name
strategy	Database strategy name

4.3. dispatchCmd

Dispatch the command to selected child dependency.

Usage

```
dispatchCmd [-buildstamp <>] -command <> [-keepgoing]
[-resourceName <.*>] [-resourceOrder <[^\.]*>] [-resourcetype
<[^\.]*>] [-sortorder <ascending>] [-targetdir <>]
```

4.3.1. Options

Option	Description
buildstamp	Unique build and deployment identifier
command	command to dispatch
keepgoing	If true, all iterations of the called workflow will be executed, even if a task in one or more of them fails.
resourceName	resource name pattern
resourceOrder	resource order name
resourcetype	resource type name
sortorder	order to sort resources
targetdir	target directory

4.4. Export

Call each RdbSchema dependency to dump its database schema to a package.

Usage

```
Export -buildstamp <> [-command <Export>] [-resourcetype
<RdbSchema>] [-targetdir <>]
```

4.4.1. Workflow

1. [dispatchCmd](#)

4.4.2. Options

Option	Description
buildstamp	<i>Unique build identifier</i>
command	<i>Command to execute</i>
resourcetype	<i>Type of resource to dispatch</i>
targetdir	<i>target directory</i>

4.5. deployRdbSchemas

Call each RdbSchema dependency to import its exportfile.

Usage

```
deployRdbSchemas -buildstamp <> [-command <Deploy>]
[-resourcetype <RdbSchema>]
```

4.5.1. Workflow

1. [dispatchCmd](#)

4.5.2. Options

Option	Description
buildstamp	<i>Unique build identifier</i>
command	<i>Command to execute</i>
resourcetype	<i>Resource type to dispatch</i>

4.6. Deploy

Call each RdbSchema dependency to run their Deploy cycle.

Usage

```
Deploy [-buildstamp <>]
```

4.6.1. Workflow

1. [deployRdbSchemas](#)

4.6.2. Options

Option	Description
buildstamp	<i>Unique build identifier</i>

5. Related Types

The following types are defined for use with Rdb.

5.1. RdbSetting

5.1.1. Overview

RdbSetting: *an Rdb setting*

5.1.2. Design

Super Type
Setting

Role	Abstract. (Objects cannot be created.)
Instance Names	Unique

5.1.3. Constraints

5.1.3.1. Allowed Parent Dependencies

- [Rdb](#)

5.2. RdbUserName

5.2.1. Overview

RdbUserName: *A user for a schema*

5.2.2. Design

Super Type
[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

5.2.3. Attributes

5.2.3.1. Exported Attributes

Name	Property
rdbUserName	settingValue

5.3. RdbPassword

5.3.1. Overview

RdbPassword: *A schema user's password*

5.3.2. Design

Super Type
[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

5.3.3. Constraints

5.3.4. Attributes

5.3.4.1. Exported Attributes

Name	Property
rdbPassword	settingValue

5.4. RdbInstanceName

5.4.1. Overview

RdbInstanceName: *Stores the value of the database instance name*

5.4.2. Design

Super Type
[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

5.4.3. Attributes

5.4.3.1. Exported Attributes

Name	Property
rdbInstanceName	settingValue

5.5. RdbInstallRoot

5.5.1. Overview

RdbInstallRoot: *Database installation root*

5.5.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

5.5.3. Attributes

5.5.3.1. Exported Attributes

Name	Property
rdbInstallRoot	settingValue

5.6. RdbExportDir

5.6.1. Overview

RdbExportDir: *Directory where database export files are written*

5.6.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

5.6.3. Attributes

5.6.3.1. Exported Attributes

Name	Property
rdbExportDir	settingValue

5.7. RdbConfigFile

5.7.1. Overview

RdbConfigFile: *Database configuration file*

5.7.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

5.7.3. Attributes

5.7.3.1. Exported Attributes

Name	Property
rdbConfigFile	settingValue

5.8. RdbStrategyModule

5.8.1. Overview

RdbStrategyModule: *Adapter to database*

5.8.2. Design

Super Type

[RdbSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

5.8.3. Attributes

5.8.3.1. Exported Attributes

Name	Property
rdbStrategy	settingValue