Package ‘RedisBaseContainer’

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Description
Configure the server container environment, the environment variable serverPort, serverPassword and sshPubKey will be set in this method.

Usage
```r
## S4 method for signature 'RedisContainer'
configServerContainerEnv(container, cluster, verbose = FALSE)
```

Arguments
- `container` Reference Container Object. The server container.
- `cluster` S4 DockerCluster object.
- `verbose` Integer. The verbose level, default 1.

Value
A RedisContainer object

Description
Configure the worker container

Usage
```r
## S4 method for signature 'RedisContainer'
configWorkerContainerEnv(container, cluster, workerNumber, verbose = FALSE)
```

Arguments
- `container` Reference Container Object. The worker container.
- `cluster` S4 DockerCluster object.
- `workerNumber` Integer. The number of workers in a container.
- `verbose` Integer. The verbose level, default 1.

Value
A RedisContainer object
getExportedNames,RedisContainer-method

Get the exported object

Description

Get the exported object. The objects are `getSysPackages`, `setSysPackages`, `addSysPackages`, `getRPackages`, `setRPackages` and `addRPackages`. see details

Usage

```r
## S4 method for signature 'RedisContainer'
getExportedNames(x)

## S4 method for signature 'RedisContainer'
getExportedObject(x, name)
```

Arguments

- `x` A cloud provider or container object
- `name` The name of the exported object

Details

The function `XSysPackages` can be used to install the system package for the worker container before running the R worker. The package will be installed by apt-get install.

The function `XRPackages` will install the R packages for the container. The package is installed via `AnVIL::install`. It will first try the fast binary installation, then fallback to `BiocManager::install`. Therefore, you can also provide the GitHub package to this function.

Note that these function must be called before deploying the container. Setting the packages will have no effect on the running container.

Value

For the exported function: The current package vector

getServerContainer,RedisContainer-method

Get the Redis server container

Description

Get the Redis server container from the worker container
## Usage

```r
## S4 method for signature 'RedisContainer'
getServerContainer(workerContainer)
```

### Arguments

**workerContainer**

The worker container.

### Value

A `RedisContainer` server container

### Description

The base redis container. It should not be directly used by the user.

### Common RedisContainer parameter

#### Arguments

- **image**: Character, the container image
- **name**: Character, the optional name of the container
- **environment**: List, the environment variables in the container
- **tag**: Character, the image tag

#### Value

No return value
RedisServerContainer  

Get the Bioconductor Redis server container

Description

Get the Bioconductor Redis server container.

Usage

```r
RedisServerContainer(environment = list(), tag = "latest")
```

Arguments

- `environment`: List, the environment variables in the container
- `tag`: Character, the image tag

Value

A RedisContainer object

Examples

```r
RedisServerContainer()
```

show,RedisContainer-method

Show the Redis container

Description

Show the Redis container

Usage

```r
## S4 method for signature 'RedisContainer'
show(object)
```

Arguments

- `object`: The RedisContainer object

Value

No return value
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