

The atsd Package Administration

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1 The atsd Package Overview

The package lets you query the [Axibase Time-Series Database](#) (ATSD) for time-series data and forecasts. Execute `query()` function to retrieve data frame containing requested time-series. You also can fetch the lists of entities and metrics from ATSD using the `get_entities()` and `get_metrics()` functions.

2 Installation Instructions

2.1 Source from github.

To install from github:

```
install.packages("devtools")
library(devtools)
install_github('axibase/atsd-api-r/source')
```

2.2 Install binary package for Linux

1. Download file [atsd_1.0.8441_R_x86_64-pc-linux-gnu.tar.gz](#) to any directory.

2. Install the atsd package by typing command in R console:

```
install.packages("path_to_directory/atsd_1.0.8441_R_x86_64-pc-linux-gnu.tar.gz",
  repos = NULL, type = "source")
```

3. File [atsd_1.0.8441_R_x86_64-pc-linux-gnu.tar.gz](#) could be removed now.

4. The atsd package requires R Curl, httr and zoo packages to be installed. You could review installed packages with the

```
library()
```

command. If R Curl, httr or zoo are not installed, install them as follows:

```
install.packages(c("RCurl", "httr", "zoo"))
```

5. To start using the package load it into R with command:

```
library(atsd)
```

2.3 Install binary package for Windows

1. Download file [atsd_1.0.8441.zip](#) to any directory.

2. Install the atsd package by typing command in R console:

```
install.packages("path_to_directory/atsd_1.0.8441.zip", repos = NULL,
  type = "win.binary")
```

3. File [atsd_1.0.8441.zip](#) could be removed now.

4. The atsd package requires RCurl, httr and zoo packages to be installed. You could review installed packages with the

```
library()
```

command. If RCurl, httr or zoo are not installed, install them as follows:

```
install.packages(c("RCurl", "httr", "zoo"))
```

5. To start using the package load it into R with command:

```
library(atsd)
```

3 Getting Started

1. To view the list of the package documentation type:

```
help(package = "atsd")
```

2. The package vignette contains complete documentation and usage examples. To view the vignette type:

```
browseVignettes(package = "atsd")
```

3. To get help for a particular function or package type ? followed by the function or the package name:

```
?atsd
```

```
?query
```

4. To inspect the loaded data frame:

```
dfr <- query(entity = "nurswgvml007", metric = "disk_used_percent",  
             selection_interval = "1-Hour")
```

head(dfr, 10) – shows the first 10 rows of data frame dfr.

tail(dfr, 7) – shows last 7 rows of data frame dfr.

str(dfr) – view the structure of data frame dfr.

summary(dfr) – view summary statistics of data frame dfr.

4 Deinstallation

To detach the package from the current R session:

```
detach("package:atsd", unload = TRUE)
```

To uninstall the package completely type:

```
remove.packages("atsd", .libPaths())
```