

Package ‘alfr’

May 7, 2026

Type Package

Title Connectivity to 'Alfresco' Content Management Repositories

Version 1.2.1

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Description Allows you to connect to an 'Alfresco' content management repository and interact with its contents using simple and intuitive functions. You will be able to establish a connection session to the 'Alfresco' repository, read and upload content and manage folder hierarchies. For more details on the 'Alfresco' content management repository see <<https://www.alfresco.com/ecm-software/document-management>>.

Depends R (>= 3.5.0)

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URL <https://github.com/rwetherall/alfr>,
<https://rwetherall.github.io/alfr/>

BugReports <https://github.com/rwetherall/alfr/issues>

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Imports httr, jsonlite, magrittr, stringr

Suggests devtools, httpptest, roxygen2, testthat, knitr, rmarkdown,
covr, remotes, spelling, fs

VignetteBuilder knitr

SystemRequirements Alfresco Content Repository (Community or Enterprise)

Language en-US

NeedsCompilation no

Repository CRAN

Date/Publication 2019-07-19 04:30:04 UTC

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alfr	<i>alfr: A package for connecting with Alfresco</i>
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Description

The alfr package provides a way to connect to Alfresco and interact with the contents of the repository.

Session

- [alf_session](#) - connection session to an Alfresco repository
- [alf_session.is_valid](#) - determine whether the session connection to an Alfresco repository is still valid
- [alf_session.invalidate](#) - invalidates a session so it can no longer use used to connect to an Alfresco repository

Nodes

- [alf_node](#) - get the details of a folder or content node
- [alf_node.new](#) - creates a new folder or content node
- [alf_node.delete](#) - deletes a folder or content node

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alf_node	<i>Get Alfresco node</i>
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Description

Gets the details of an Alfresco repository node matching `node_id` or, if provided, the node at `relative_path` relative to `node_id`.

Usage

```
alf_node(session, node_id = "-root-", relative_path = NULL)
```

Arguments

<code>session</code>	valid Alfresco repository session
<code>node_id</code>	node id, defaults to <code>-root-</code>
<code>relative_path</code>	relative path from <code>node_id</code> to required node, defaults to <code>NULL</code>

Value

Node details

Examples

```
# try to establish a connection to the alfresco content repository
my_session <- tryCatch(
  alf_session("http://localhost:8080", "admin", "admin"),
  error = function(e) NULL)

if (!is.null(my_session)) {

  # create document
  my_new_document <- alf_node.new(my_session, node_id="-root-",
    list(
      name = "example.txt",
      nodeType = "cm:content",
      relativePath = "example"
    ))

  # upload content
  my_new_document$content$update(
    system.file("extdata", "sample.txt", package="alfr"))

  # get details of document node
  my_document <- alf_node(my_session, relative_path = "example/example.txt")

  # output the name of the document
  print(my_document$name)
```

```

# output the details of documents content
print(my_document$content$mime_type)
print(my_document$content$mime_type_name)
print(my_document$content$size)
print(my_document$content$encoding)

# read document content
my_content_file <- file(my_document$content$as.file(), "r")
my_content <- readLines(my_content_file)
close(my_content_file)
print(my_content)

# upload new content
my_updated_document <- my_document$content$update(
  system.file("extdata", "modified_sample.txt", package="alfr"))

# print updated content size
print(my_updated_document$content$size)

# delete document
alf_node.delete(my_session, my_document$id)
}

```

alf_node.delete	<i>Deletes an Alfresco node</i>
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Description

Deletes an Alfresco node identified by node_id. If the node is a folder then all the delete recurses through the primary children.

Usage

```
alf_node.delete(session, node_id, permanent = FALSE)
```

Arguments

session	valid Alfresco repository session
node_id	node id to delete
permanent	indicates whether the node is permanently deleted or places in the trashcan where where it can be recovered from. FALSE by default.

Examples

```

# try to establish a connection to the alfresco content repository
my_session <- tryCatch(
  alf_session("http://localhost:8080", "admin", "admin"),
  error = function(e) NULL)

```

```
if (!is.null(my_session)) {  
  
  # create document  
  my_new_document <- alf_node.new(my_session, node_id="-root-",  
    list(  
      name = "example.txt",  
      nodeType = "cm:content",  
      relativePath = "example"  
    ))  
  
  # upload content  
  my_new_document$content$update(  
    system.file("extdata", "sample.txt", package="alfr"))  
  
  # get details of document node  
  my_document <- alf_node(my_session, relative_path = "example/example.txt")  
  
  # output the name of the document  
  print(my_document$name)  
  
  # output the details of documents content  
  print(my_document$content$mime_type)  
  print(my_document$content$mime_type_name)  
  print(my_document$content$size)  
  print(my_document$content$encoding)  
  
  # read document content  
  my_content_file <- file(my_document$content$as.file(), "r")  
  my_content <- readLines(my_content_file)  
  close(my_content_file)  
  print(my_content)  
  
  # upload new content  
  my_updated_document <- my_document$content$update(  
    system.file("extdata", "modified_sample.txt", package="alfr"))  
  
  # print updated content size  
  print(my_updated_document$content$size)  
  
  # delete document  
  alf_node.delete(my_session, my_document$id)  
}
```

alf_node.new

Create a new Alfresco node

Description

Creates a new Alfresco repository node as a child of node_id.

Usage

```
alf_node.new(session, node_id, node_details)
```

Arguments

session	valid Alfresco repository session
node_id	node id
node_details	details of new node

Value

node details

Examples

```
# try to establish a connection to the alfresco content repository
my_session <- tryCatch(
  alf_session("http://localhost:8080", "admin", "admin"),
  error = function(e) NULL)

if (!is.null(my_session)) {

  # create document
  my_new_document <- alf_node.new(my_session, node_id="-root-",
    list(
      name = "example.txt",
      nodeType = "cm:content",
      relativePath = "example"
    ))

  # upload content
  my_new_document$content$update(
    system.file("extdata", "sample.txt", package="alfr"))

  # get details of document node
  my_document <- alf_node(my_session, relative_path = "example/example.txt")

  # output the name of the document
  print(my_document$name)

  # output the details of documents content
  print(my_document$content$mime_type)
  print(my_document$content$mime_type_name)
  print(my_document$content$size)
  print(my_document$content$encoding)

  # read document content
  my_content_file <- file(my_document$content$as.file(), "r")
  my_content <- readLines(my_content_file)
  close(my_content_file)
  print(my_content)
```

```

# upload new content
my_updated_document <- my_document$content$update(
  system.file("extdata", "modified_sample.txt", package="alfr"))

# print updated content size
print(my_updated_document$content$size)

# delete document
alf_node.delete(my_session, my_document$id)
}

```

alf_session

Get connection session to Alfresco content repository

Description

Validates authentication details with Alfresco content repository, returning ticket, server details and endpoints if successful.

Usage

```
alf_session(server, username, password)
```

Arguments

server	Alfresco server URL
username	user name
password	password

Value

Connection session to Alfresco repository

Examples

```

# try to establish a connection to the alfresco content repository
my_session <-
  tryCatch(
    alf_session("http://localhost:8080", "admin", "admin"),
    error = function(e) NULL)

if (!is.null(my_session)) {

  # output session information
  print(paste("Session: [ticket = ", my_session$ticket,
             ", server = ", my_session$server, "]" , sep=""))

  # verify that the session is valid

```

```
if (alf_session.is_valid(my_session)) print("Session verified as valid.")

# invalidate the session so that it can no longer be used
alf_session.invalidate(my_session)
}
```

alf_session.invalidate

Invalidates a session.

Description

Invalidates a valid session so it can no longer be used to connect to an Alfresco repository.

Usage

```
alf_session.invalidate(session)
```

Arguments

session session

Value

TRUE if session has been successfully invalidated, FALSE if session was already invalid.

Examples

```
# try to establish a connection to the alfresco content repository
my_session <-
  tryCatch(
    alf_session("http://localhost:8080", "admin", "admin"),
    error = function(e) NULL)

if (!is.null(my_session)) {

  # output session information
  print(paste("Session: [ticket = ", my_session$ticket,
             ", server = ", my_session$server, "]" , sep=""))

  # verify that the session is valid
  if (alf_session.is_valid(my_session)) print("Session verified as valid.")

  # invalidate the session so that it can no longer be used
  alf_session.invalidate(my_session)
}
```

alf_session.is_valid *Determine whether a session is valid.*

Description

Determines whether a given session is still valid or not.

Usage

```
alf_session.is_valid(session)
```

Arguments

session session

Value

TRUE if the session is valid, FALSE otherwise

Examples

```
# try to establish a connection to the alfresco content repository
my_session <-
  tryCatch(
    alf_session("http://localhost:8080", "admin", "admin"),
    error = function(e) NULL)

if (!is.null(my_session)) {

  # output session information
  print(paste("Session: [ticket = ", my_session$ticket,
             ", server = ", my_session$server, "]", sep=""))

  # verify that the session is valid
  if (alf_session.is_valid(my_session)) print("Session verified as valid.")

  # invalidate the session so that it can no longer be used
  alf_session.invalidate(my_session)
}
```

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