

globus authz Reference Manual

2.1

Generated by Doxygen 1.3.9.1

Thu Jan 26 15:23:40 2012

Contents

1	globus authz Module Index	1
2	globus authz Module Documentation	1

1 globus authz Module Index

1.1 globus authz Modules

Here is a list of all modules:

GSI Authorization API	1
GSI Credential Constants	3

2 globus authz Module Documentation

2.1 GSI Authorization API

Initialize Handle

- globus_result_t **globus_gsi_authz_handle_init** (globus_gsi_authz_handle_t *handle, const char *service_name, const gss_ctx_id_t context, globus_gsi_authz_cb_t callback, void *callback_arg)

Authorization decision made here

- globus_result_t **globus_gsi_authorize** (globus_gsi_authz_handle_t handle, const void *action, const void *object, globus_gsi_authz_cb_t callback, void *callback_arg)

Destroy Handle

- globus_result_t **globus_gsi_authz_handle_destroy** (globus_gsi_authz_handle_t handle, globus_gsi_authz_cb_t callback, void *callback_arg)

Query for authorization identity

- globus_result_t **globus_gsi_authz_get_authorization_identity** (globus_gsi_authz_handle_t handle, char **identity_ptr, globus_gsi_authz_cb_t callback, void *callback_arg)

2.1.1 Function Documentation

2.1.1.1 globus_result_t globus_gsi_authz_handle_init (globus_gsi_authz_handle_t * *handle*, const char * *service_name*, const gss_ctx_id_t *context*, globus_gsi_authz_cb_t *callback*, void * *callback_arg*)

Initializes a handle.

Parameters:

handle Pointer to the handle that is to be initialized

service_name Service to authorize access to

context Security context used to contact the service
callback Callback function to call when authz handle init completes
callback_arg Argument to callback function

Returns:

GLOBUS_SUCCESS if successful A Globus error object on failure:

2.1.1.2 globus_result_t globus_gsi_authorize (globus_gsi_authz_handle_t handle, const void * action, const void * object, globus_gsi_authz_cb_t callback, void * callback_arg)

Authorization decision made here.

Parameters:

handle Pointer to the handle that is to be initialized
action Action to authorize
object Object that the action pertains to.
callback Callback function to call when authorization completes
callback_arg Argument to callback function

Returns:

GLOBUS_SUCCESS if successful A Globus error object on failure:

2.1.1.3 globus_result_t globus_gsi_authz_handle_destroy (globus_gsi_authz_handle_t handle, globus_gsi_authz_cb_t callback, void * callback_arg)

Destroy a Globus GSI authz handle.

Parameters:

handle The handle that is to be destroyed
callback Callback function to call when handle is destroyed
callback_arg Argument to callback function

Returns:

GLOBUS_SUCCESS

2.1.1.4 globus_result_t globus_gsi_authz_get_authorization_identity (globus_gsi_authz_handle_t handle, char ** identity_ptr, globus_gsi_authz_cb_t callback, void * callback_arg)

Query for authorization identity.

Parameters:

handle The handle that is to be used for the identity check.
identity_ptr The authorization identity determined by the authorization handle. This is must be freed by the caller. If the value is NULL (and this function returned GLOBUS_SUCCESS), the caller should use the authenticated identity.
callback Callback function to call when identity is determined.
callback_arg Argument to callback function.

Returns:

GLOBUS_SUCCESS

2.2 GSI Credential Constants

Enumerations

- enum **globus_gsi_authz_error_t** {
 GLOBUS_GSI_AUTHZ_ERROR_SUCCESS = 0,
 GLOBUS_GSI_AUTHZ_ERROR_ERRNO = 1,
 GLOBUS_GSI_AUTHZ_ERROR_BAD_PARAMETER = 2,
 GLOBUS_GSI_AUTHZ_ERROR_CALLOUT = 3 }

2.2.1 Enumeration Type Documentation

2.2.1.1 enum **globus_gsi_authz_error_t**

GSI Authz Error codes.

Enumeration values:

GLOBUS_GSI_AUTHZ_ERROR_SUCCESS Success.

GLOBUS_GSI_AUTHZ_ERROR_ERRNO Error with system call.

GLOBUS_GSI_AUTHZ_ERROR_BAD_PARAMETER Invalid parameter.

GLOBUS_GSI_AUTHZ_ERROR_CALLOUT Callout returned an error.

Index

- globus_gsi_authorize
 - globus_gsi_authz, 2
- globus_gsi_authz
 - globus_gsi_authorize, 2
 - globus_gsi_authz_get_authorization_identity,
2
 - globus_gsi_authz_handle_destroy, 2
 - globus_gsi_authz_handle_init, 1
- globus_gsi_authz_constants
 - GLOBUS_GSI_AUTHZ_ERROR_BAD_-
PARAMETER, 3
 - GLOBUS_GSI_AUTHZ_ERROR_-
CALLOUT, 3
 - GLOBUS_GSI_AUTHZ_ERROR_ERRNO, 3
 - GLOBUS_GSI_AUTHZ_ERROR_SUCCESS,
3
 - globus_gsi_authz_error_t, 3
- GLOBUS_GSI_AUTHZ_ERROR_BAD_-
PARAMETER
 - globus_gsi_authz_constants, 3
- GLOBUS_GSI_AUTHZ_ERROR_CALLOUT
 - globus_gsi_authz_constants, 3
- GLOBUS_GSI_AUTHZ_ERROR_ERRNO
 - globus_gsi_authz_constants, 3
- GLOBUS_GSI_AUTHZ_ERROR_SUCCESS
 - globus_gsi_authz_constants, 3
- globus_gsi_authz_error_t
 - globus_gsi_authz_constants, 3
- globus_gsi_authz_get_authorization_identity
 - globus_gsi_authz, 2
- globus_gsi_authz_handle_destroy
 - globus_gsi_authz, 2
- globus_gsi_authz_handle_init
 - globus_gsi_authz, 1
- GSI Authorization API, 1
- GSI Credential Constants, 3