

globus authz Reference Manual

2.2

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1 globus authz Module Index

1.1 globus authz Modules

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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.

Enumerator:

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.

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