

NAME

rpc_gss_seccreate - create a security context using the RPCSEC_GSS protocol

LIBRARY

RPC GSS-API Authentication Library (librpcsec_gss, -lrpcsec_gss)

SYNOPSIS

```
#include <rpc/rpcsec_gss.h>
```

AUTH *

```
rpc_gss_seccreate(CLIENT *clnt, const char *principal, const char *mechanism,
    rpc_gss_service_t service, const char *qop, rpc_gss_options_req_t *options_req,
    rpc_gss_options_ret_t *options_ret);
```

DESCRIPTION

This function is used to establish a security context between an application and a remote peer using the RPSEC_GSS protocol.

PARAMETERS

- | | |
|-----------------------|---|
| clnt | An RPC handle which is connected to the remote peer |
| principal | The name of the service principal on the remote peer. For instance, a principal such as "nfs@server.example.com" might be used by an application which needs to contact an NFS server |
| mechanism | The desired mechanism for this security context. The value of mechanism should be the name of one of the security mechanisms listed in /etc/gss/mech. |
| service | Type of service requested. |
| rpc_gss_svc_default | The default - typically the same as rpc_gss_svc_none. |
| rpc_gss_svc_none | RPC headers only are integrity protected by a checksum. |
| rpc_gss_svc_integrity | RPC headers and data are integrity protected by a checksum. |
| rpc_gss_svc_privacy | RPC headers are integrity protected by a checksum and data is encrypted. |
| qop | Desired quality of protection or NULL for the default. Available values are listed in |

/etc/gss/qop

`options_req` Extra security context options to be passed to the underlying GSS-API mechanism. Pass `NULL` to supply default values.

`options_ret` Various values returned by the underlying GSS-API mechanism. Pass `NULL` if these values are not required.

RETURN VALUES

If the security context was created successfully, a pointer to an *AUTH* structure that represents the context is returned. To use this security context for subsequent RPC calls, set `clnt->cl_auth` to this value.

SEE ALSO

`gssapi(3)`, `rpc(3)`, `rpcsec_gss(3)`, `mech(5)`, `qop(5)`

HISTORY

The `rpc_gss_seccreate` function first appeared in FreeBSD 8.0.

AUTHORS

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