

NFS Security

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SunSoft NFS/RPC Group

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GSS-API - Jack Kabat

Kerberos V5 - Ram Marti

PAM - Mike Saltz



NFS Security

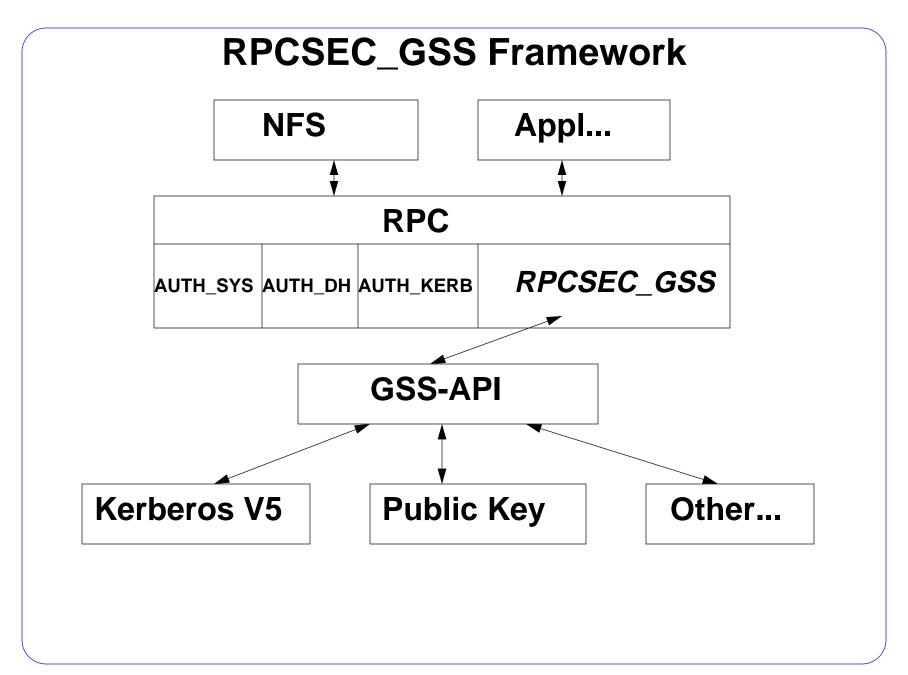
Goal

- Strong security services including authentication, integrity and privacy
- Security Mechanism Independence
- Standards-based

Solution

- A new RPC security flavor RPCSEC_GSS
- Use GSS-API
- Kerberos V5 and PAM
- Other security mechanisms







RPCSEC_GSS Components

API

- rpc_gss_seccreate(..., mechanism, service, qop,...)
- rpc_gss_set_svc_name(server-svc-name, mech,...)
- etc...

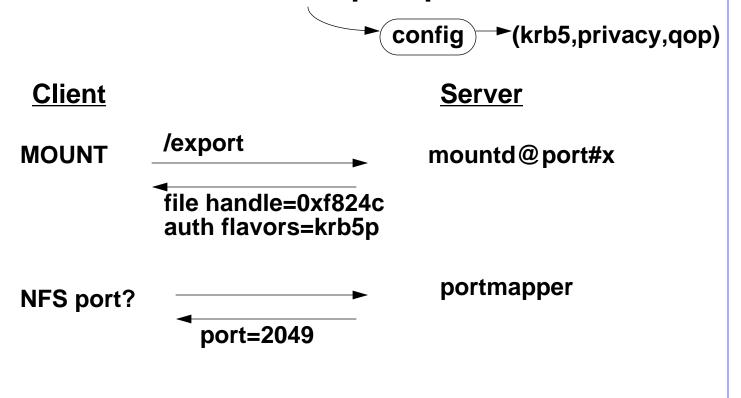
Protocol

- Security Context Creation
- RPC Data Exchange
- Security Context Destruction

Slide 5

When NFS uses RPCSEC_GSS

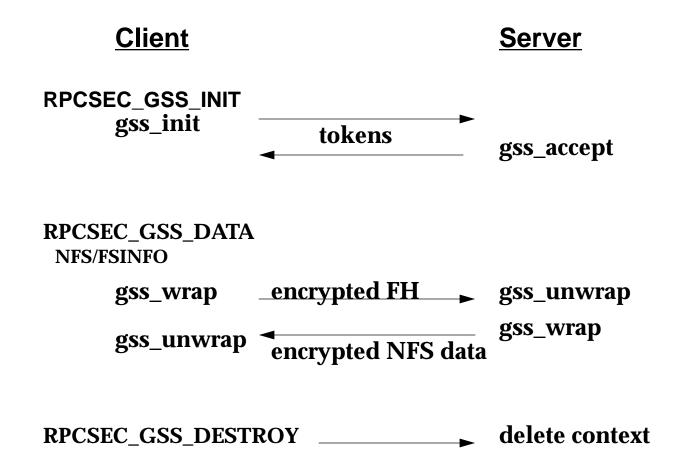
Example: # share -o sec=krb5p /export



Start NFS operations using RPCSEC_GSS ...



Example: # share -o sec=krb5p /export (Continue)





STATUS of RPCSEC_GSS

- (9/97) RFC 2203 RPCSEC_GSS Protocol Spec.
- Framework will be in the future Solaris release.