



Kerberos 101

Basic knowledge for Kerberos users

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Section 1

Introduction

What is Kerberos, why to use it

- Kerberos (SW suite) vs. Kerberos (protocol)
- usage on unsecure network
- secure authentication, creating secure channels
- symmetric cryptography (3DES, AES)
- Single Sign On
- passwords not transferred through the network



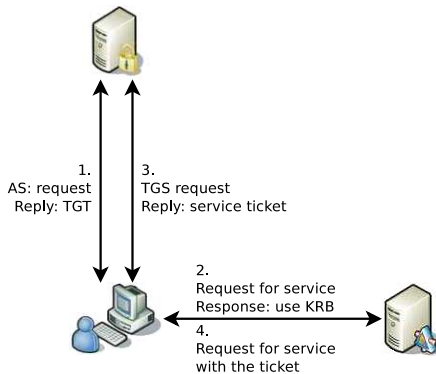
Section 2

Basic concepts

Important definitions and terms

- realm
- KDC, AS, TGS
- ticket
- principal
- key, keytab

Communication schema





Section 3

MIT Kerberos

Kerberos implementation

- MIT Kerberos vs. others
- server, client libraries, GSSAPI
- kadmin, kadmin.local, database backends
- kinit, klist, keytabs

Server

- */var/kerberos/krb5kdc*
- database backends (db2, hdb, ldap)
- kadmin
- kadmin.local

Client

- */etc/krb5.conf*
- kinit, kdestroy
- klist
- keytabs
- pam_krb5, SSSD



Section 4

Some interesting extensions

Some interesting extensions

- PKINIT
- pre-authentication
- FAST
- OTP pre-auth using FAST
- AuthHub



The end.

Thanks for listening.