

EUROPEAN AFS & KERBEROS
CONFERENCE 2010



CYBERSAFE

The Kerberos Solution Provider

CyberSafe Limited

Commercialized Cross-Platform Kerberos

EASY, SECURE AND COST EFFECTIVE

Tuesday, 14th September 2010
European AFS & Kerberos Conference 2010

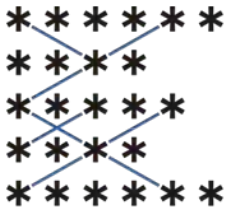


business partner



Open Source Kerberos Comparison

- Support
 - We provide 24x7x365 cover, and are responsive to support requests + provide service level agreement
 - Our products have features to make support easier and speed up time to resolution – minimising downtime...
- Skills ?
 - Some customers have, most don't
- Risk Management ...
 - e.g. Asses financial implications of users not being able to logon
- Upgrades / Patching / Vulnerabilities
 - Most don't bother with patching
- Competitive ?
 - Sometimes !



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Product Demonstration

This product demonstration will take about 5 minutes. I hope you enjoy it !



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Key Table, Key Extraction

```
[root@s1 ~]# ktutil -x appl
Active Directory Administrator Account: administrator
Password:
Testing key table file entries...
```

```
Encryption Type Test Summary:
Principal: appl/s1.kerby.com@KERBY.COM
Encryption Types:          18      17      23      3      1      24
KDC Host: dc2-3.kerby.com  Yes    Yes    Yes    Yes    No  *  No  *
```

```
[root@s1 ~]#
[root@s1 ~]# ktutil
Key Table File: /krb5/v5srvtab
```

KVNO	EType	Timestamp	Principal
2	18	Sat 04 Sep 2010 05:30:40 PM BST	appl/s1.kerby.com@KERBY.COM
2	17	Sat 04 Sep 2010 05:30:40 PM BST	appl/s1.kerby.com@KERBY.COM
2	23	Sat 04 Sep 2010 05:30:40 PM BST	appl/s1.kerby.com@KERBY.COM
2	3	Sat 04 Sep 2010 05:30:40 PM BST	appl/s1.kerby.com@KERBY.COM

```
[root@s1 ~]#
```

Principal (Computer Account) and Key Table Entry Removal

```
[root@s1 ~]# ktutil -R appl
Active Directory Administrator Account: administrator
Password:
Using computer account with the following attributes:
  sAMAccountName: appl-s1-kerby-com$
  userPrincipalName: appl/s1.kerby.com@KERBY.COM
  servicePrincipalName: appl/s1.kerby.com
  DN: CN=appl-s1-kerby-com,CN=Computers,DC=kerby,DC=com
Do you want to remove this computer account from the Directory? [y,n]
(default: n): y
Are you sure? [y,n] (default: n): y
The computer account removed successfully.
Testing key table file entries...
Principal Exists Test Summary:
  Principal: appl/s1.kerby.com@KERBY.COM   Exists
  KDC Host:  dc1-3.kerby.com                No   *
[root@s1 ~]# ktutil
      Key Table File: /krb5/v5srvtab

KVNO  EType  Timestamp                                     Principal
-----
[root@s1 ~]#
```


Logging (Kerberos Client)

```
[root@s1 ~]# kinit "emea\user2"  
Password for user2\@emea@KERBY.COM:  
[root@s1 ~]#
```

```
Sat 04 Sep 2010 05:42:48 PM BST (root) [28370] CSTBk5 S-00004B06,  
gitkt.c:810:_handleReferrals - Requesting Kerberos Initial Ticket: kdc  
host=dc2-3.kerby.com, client=user2\@emea@KERBY.COM,  
server=krbtgt/KERBY.COM@KERBY.COM, etypes=(18,17,23,3,1,24), flags=(R,C).  
Realm Referral Details: client realm=EMEA.KERBY.COM
```

```
Sat 04 Sep 2010 05:42:48 PM BST (root) [28370] CSTBk5 S-00004B00,  
gitkt.c:2390:csfC5getITkt10 - Requesting Kerberos Initial Ticket: kdc  
host=dc1-1-3.emea.kerby.com, client=user2\@emea@EMEA.KERBY.COM,  
server=krbtgt/EMEA.KERBY.COM@EMEA.KERBY.COM, etypes=(18,17,23,3,1,24),  
flags=(R,C). Initial Ticket Issued: client=user2@EMEA.KERBY.COM, valid  
from=Sat 04 Sep 2010 05:42:52 PM BST, expires=Sun 05 Sep 2010 01:42:52 AM  
BST, etypes={reply=18, session key=18, ticket=18}, addresses=(<null>),  
kvno=2, flags=(R,I,A)
```