SKYVIEW PARTNERS, LLC

World Class Security Experts

Introduction to Single Sign on with OS/400 and i5/OS

Carol Woodbury

carol.woodbury@skyviewpartners.com

www.skyviewpartners.com

Why Can't Single Sign on be Solved?

Two issues that need to be resolved:

- **Authentication**
  - Prove you are who you say you are
- **Authorization**
  - What you have access to once you're authenticated

SKYVIEW PARTNERS, LLC

Passwords !!!

Network

Lotus Notes

Sametime

PL

DEV

etc…

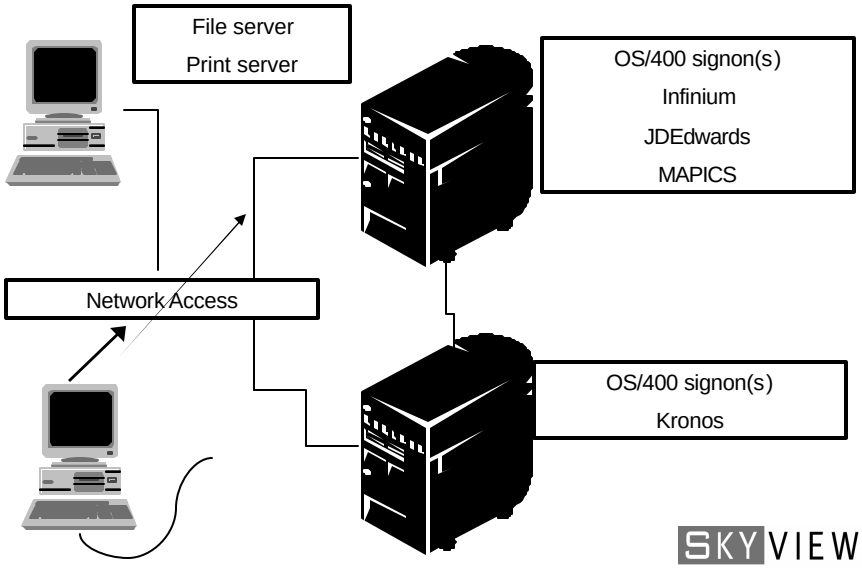
SKY VIEW PARTNERS, LLC

Passwords are

- **Expensive**
  - To Create
  - To Communicate
  - To Reset (lost productivity)
  - To Reset (Help Desk staff and/or Application to reset)
  - To Reset (Time to change application profile password or else application downtime – yikes!)
- **A pain**
  - To remember
  - Because you aren't supposed to write them down!

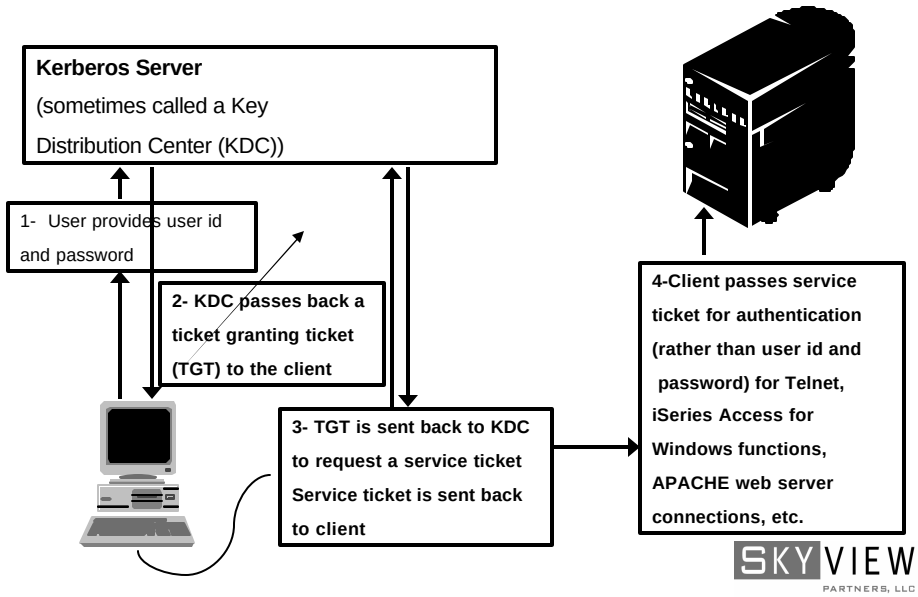
SKY VIEW PARTNERS, LLC

What are Passwords used for? Authentication!



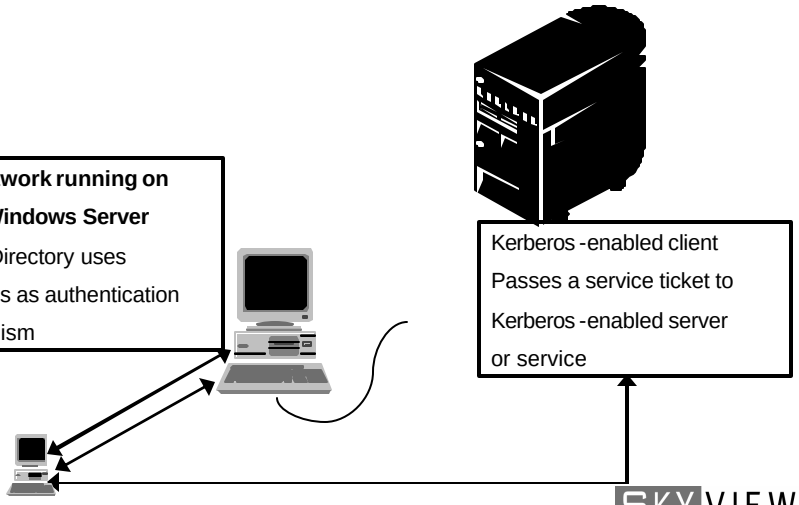
5
www.skyviewpartners.com

Kerberos



6
www.skyviewpartners.com

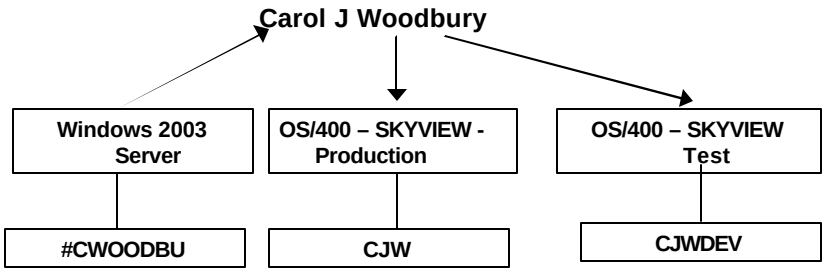
Kerberos in a network



Single Sign on Solved ….. Except …..

- **By how many names are you known around the network?**
  - #CWOODBU
  - SECOFRCW
  - CWOODBUR
- **Here's where EIM comes in**
  - EIM maps a known identity to what you should be known as on a particular system.

EIM Associations

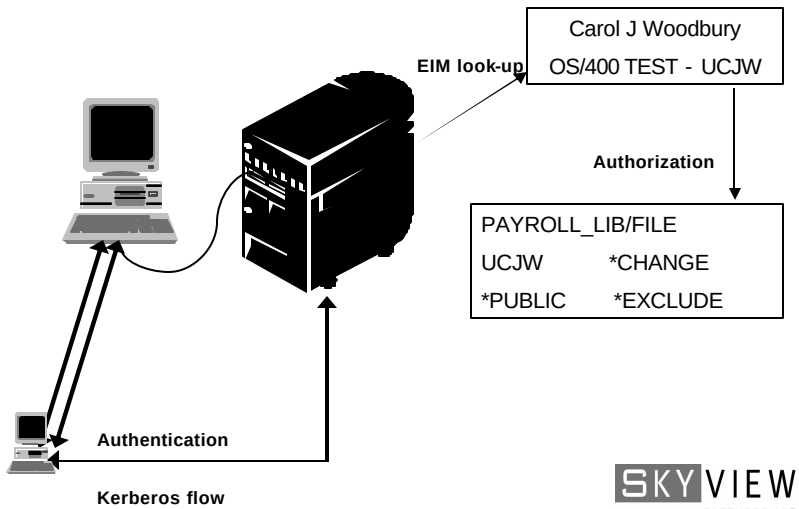


SKYVIEW PARTNERS, LLC

9

www.skyviewpartners.com

Kerberos and EIM roles

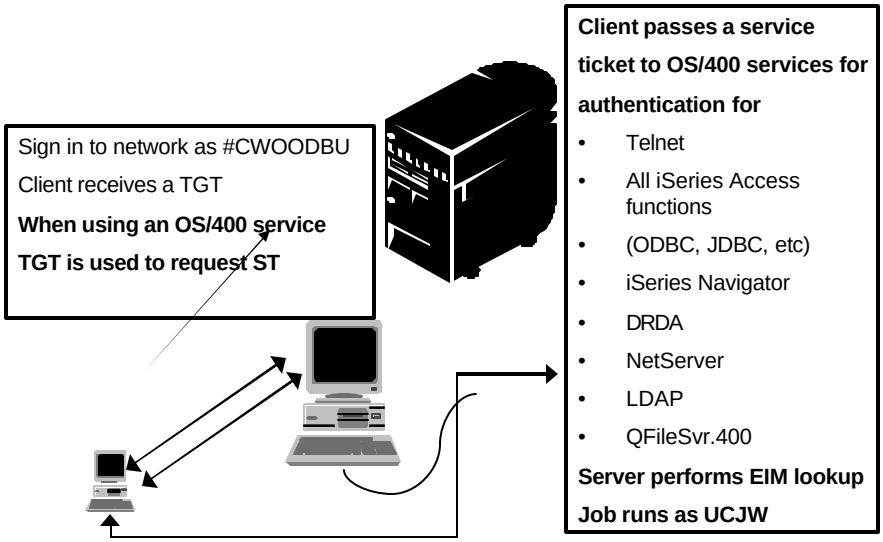


SKYVIEW PARTNERS, LLC

10

www.skyviewpartners.com

Kerberos and OS/400 or i5/OS



SKY VIEW PARTNERS, LLC

Configuring Single Sign for OS/400 and i5/OS

- **Configure Network Authentication Services (NAS)**
- **Configure Active Directory (Kerberos Server)**
- **Configure EIM**
  - Domain
  - Registry
  - Associations
- **Configure iSeries Access for Windows**

SKY VIEW PARTNERS, LLC

Before Configuring ANYTHING …

- **Read the instructions in their entirety !!!**
  - IBM Information Center
  - Redbook
  - Experts' Guide …
- **Start bribing your network person**
  - You're going to need their help!!!
- **And….**
  - You must do some planning !!!

SKY VIEW PARTNERS, LLC

Configuration requirements

- **A Kerberos server**
  - Need sufficient rights to configure this server
- **System**
  - OS/400 V5R2 or later
  - Host servers
  - QShell (option 30)
  - Crypto Access Provider (5722AC3)
  - Profile needs
    - *ALLOBJ, *SECADM and *IOSYSCFG
    - Home directory configured
- **Client**
  - iSeries Access for Windows V5R2 or later
  - iSeries Navigator – specifically the Security and Network components
  - Windows XP, 2000 and 2003

SKY VIEW PARTNERS, LLC

Planning

You must determine:

- **Which system will be your**
  - Kerberos server
  - EIM domain controller
- **Your naming convention**
- **What applications or services**
- **Which users will participate**

Configuring NAS

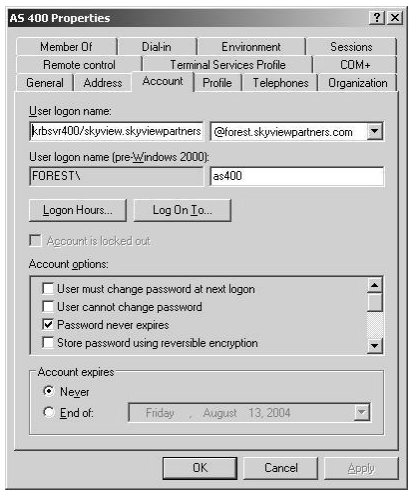
- **Launch the NAS wizard out of iSeries Navigator**
  - Server name->Security->Network Authentication Services

Set System Values

System clocks must be within 5 minutes

- **Set**
  - QDATE
  - QUTCOFFSET or QTIMZON (in V5R3)

Add a user to Active Directory

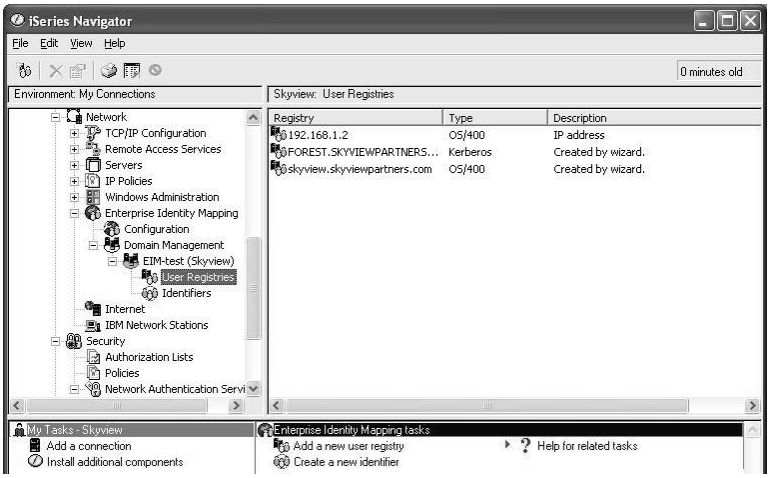


- **User that NAS will use to communicate to the Kerberos Server**

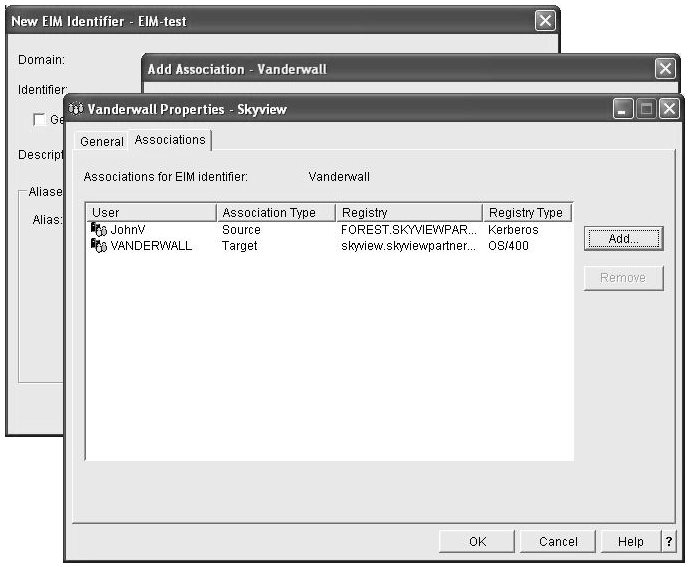
Configuring EIM – EIM domain

- **Launch the EIM wizard out of iSeries Navigator**
  - Server name->Network->Enterprise Identity Mapping

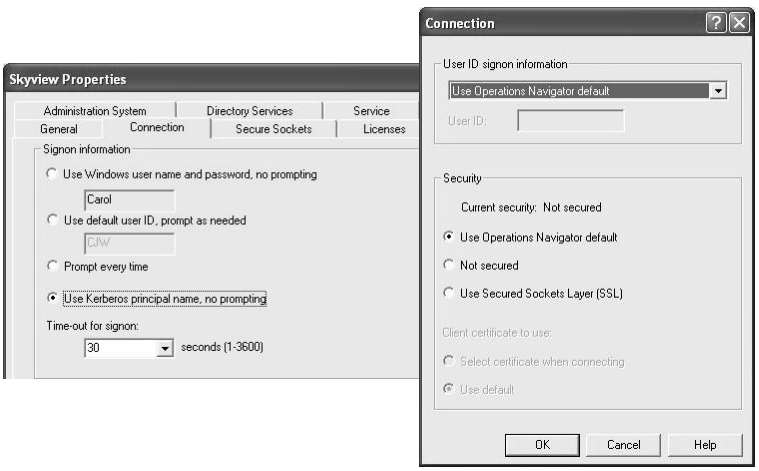
Configuring EIM – User registry



Configuring EIM – Identifiers



Configure Services to use Single Sign on



Word to the wise …

- **Download the latest PTFs before starting**
- **Read the instructions !!!**
- **Get help from your network resources**
- **Plan before you begin**

SKY VIEW PARTNERS, LLC

IBM InfoCenter

- **www.iseries.ibm.com/infocenter**
  - Network Authentication Services (NAS)
  - EIM
  - Single Signon
  - Identity tokens
    - www.ibm.com/eserver/iseries/toolbox/downloads.htm
- **Windows-based Single Signon and the EIM Framework (redbook)**
  - www.ibm.com/redbooks
- **Experts' Guide to OS/400 and i5/OS Security by Carol Woodbury and Patrick Botz**
  - www.pentontech.com/education

SKY VIEW PARTNERS, LLC