AIS/W2K pilot preview

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Background

- Windows 2000 core infrastructure went production July 10, 2000
- HOKIES (root VT AD)
  - Active Directory
  - Dynamic DNS
  - In-house tools
  - Website (http://www.w2k.vt.edu)
AD overview

Active Directory

- Combines the NT domain model into a hierarchical forest, based on an LDAP (X500) directory using domain name service (DNS) as a service location and naming mechanism
- Provides organizational units (OUs) to manage users, groups, computers, shared folders, etc.
- Provides local, global and universal groups for security and distribution control
- New security model allows fine-grain control of security attributes and role delegation
User accounts reside in root, resources in children
W2K features

- Provides a wide range of new benefits, features and functionality
- Value – Lower TCO
- Reliability – uptime (17% > NT 4, 50% > 9x)
- Mobility – Laptop support, hibernation, APM
- Manageability – Group policies, MMC, delegation
- Performance – speed (27% > 9x)
- Security – VPN, IPsec, LT2P, biometrics
- Internet – IE 5, WebDav, Active Desktop
- Data Access – Intellimirror, DFS, offline store
- Hardware – PnP, USB, Firewire
Standalone or Member?

- Only member workstations and servers have computer accounts in a child domain.
- With a computer account an authenticated user can:
  - Browse the AD non-anonymously (shares, printers, people, etc.)
  - Kerberos and IPsec security
  - Secure local resources via non local accounts/groups
  - Group policies
  - Intellimirror, DFS, offline store
  - Use cached credentials for login
  - Dynamically registered IP/DNS via DHCP
  - Access resources in other domains secured by Hokies accounts
Overview

- Goal: Provide a secure, robust, and easy to manage and maintain computing environment
- Based upon concepts from W2K “vision statement” written February 2001
  - http://www.w2k.vt.edu/vision.txt
- Roll pilot into conversion of AIS NT 4.0 domain to W2K child domain
- Use AIS W2K child domain to showcase benefits of W2K professional and server
7 components of full pilot

- Hardware
- Security
- Apps
- Remote Mgmt
- Video/Telephony
- Backup/Recovery
- Network
3 components base pilot

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- Personal firewall
- Central event logging
- Automatic hotfixes

Security

- Hw/sw inventory
- Remote help desk
- Sw distribution

Remote Mgmt

- Folder redirection
- Offline store to NAS
- Local system recovery

Backup/Recovery
Timeframe (base pilot)

- Technical development
  - April – May
- KD review cycle
  - May – June
- Release to test group
  - June – July
- Long term goal: Offer this service to all Banner desktop users
For more information

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Progress updates at W2K website and VTntug meetings

- http://www.w2k.vt.edu
- http://vtntug.w2k.vt.edu
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