

AIS-Pilot

Backup and Disaster Recovery

Scenario

Joe L. User – Joe’s Life

Joe logs into his computer at work and smiles briefly at the picture on his desktop, a picture of his 3-year-old daughter playing with their beagle Skippy. He creates an Excel document called “Dept_Budget.xls”. He works on the document for 2 hours and saves it in his “My Documents” folder. He then heads across campus for his afternoon meeting where he is to present the current status of the departmental budget meeting. At the meeting, he logs into the conference room computer, smiling again at his daughter with Skippy, opens up his “My Documents” folder and runs “Dept_Budget.xls”. The meeting goes over well and he is asked to present it again next week at the “Department Head Seminar”.

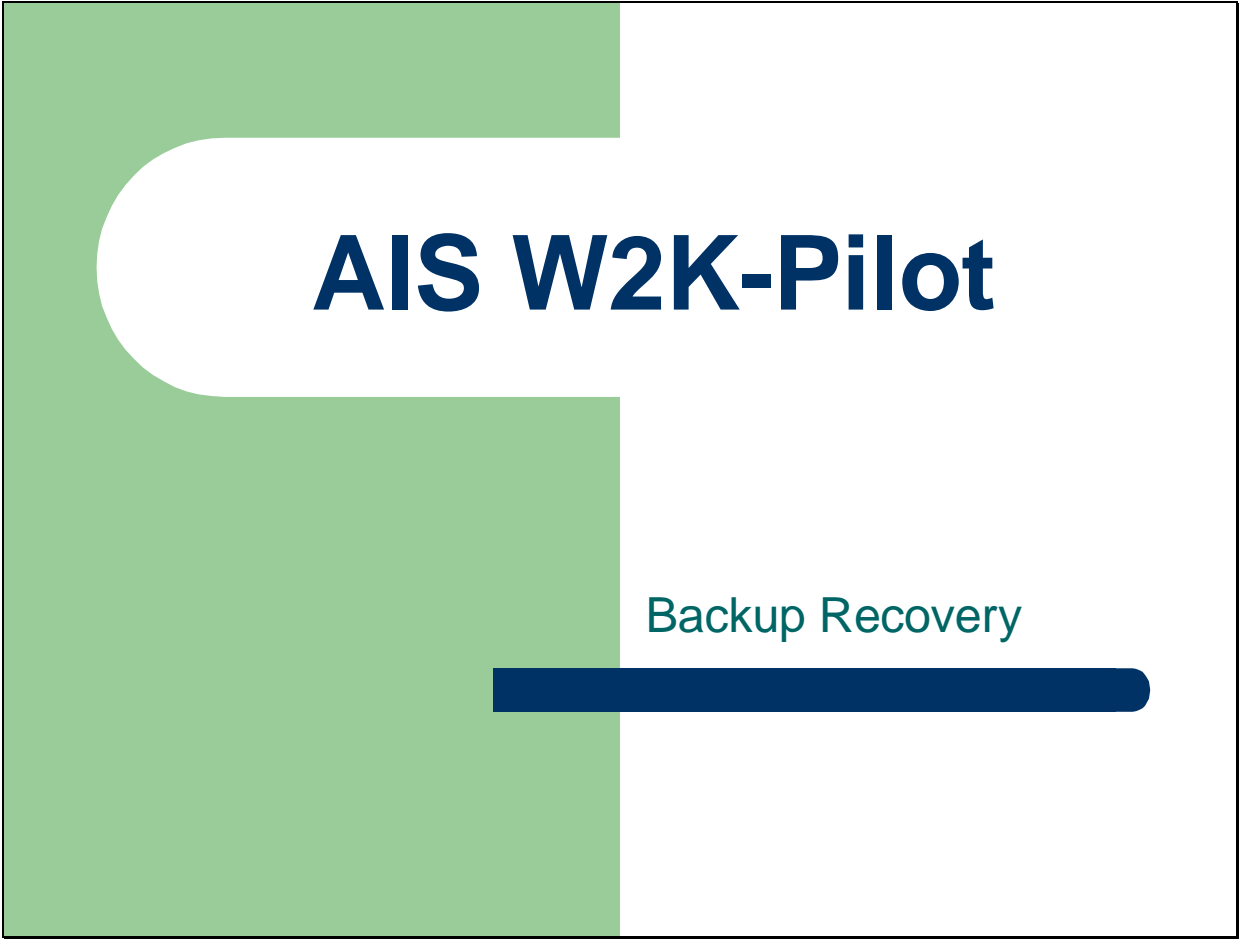
After the budget meeting he goes back to his office and begins jazzing up the Excel document with graphs and charts. He also creates a PowerPoint document called “Quarterly_Report.ppt” to go along with it. When he is done he again saves both files to his “My Documents” folder.

Being Friday, he decides to run “Snapshot” on his computer to do a system backup. After “Snapshot” is done, he logs off his computer and heads home for the weekend. On Saturday, he has some spare time so he decides to log on to the campus network from his home computer and work on the Excel and PowerPoint documents some more.

Joe arrives at work at 8:00am Monday morning to find that his brother-in-law has sent him an e-mail. After reading the e-mail, and trying to run the attachment (the file seems to have been corrupted), Joe notices that his computer is not running properly (“And what the heck are all these pink bunnies doing on my desktop!?!?!”). Tech Support informs him that his computer has been infected by a new virus that is going around called “Cute and Fuzzy Bunny”. Not to worry, Joe just runs “Snapshot” and loads the “snapshot” he took of his computer on Friday. (While “Snapshot” is loading the latest “snapshot” backup, Joe uses his cell phone to call and thank his wonderful brother-in-law for the e-mail).

After “Snapshot” is done, Joe logs into his computer, finding it restored to the same state he left it on Friday at 4:30pm. He checks his mail and promptly deletes his brother-in-law’s e-mail. He opens his “My Documents” folder and finds that all the changes he made to “Dept_Budget.xls” and “Quarterly_Report.ppt” on Saturday are still there. Phew, now that that is done Joe can actually get back to work on his presentation for Wednesday.

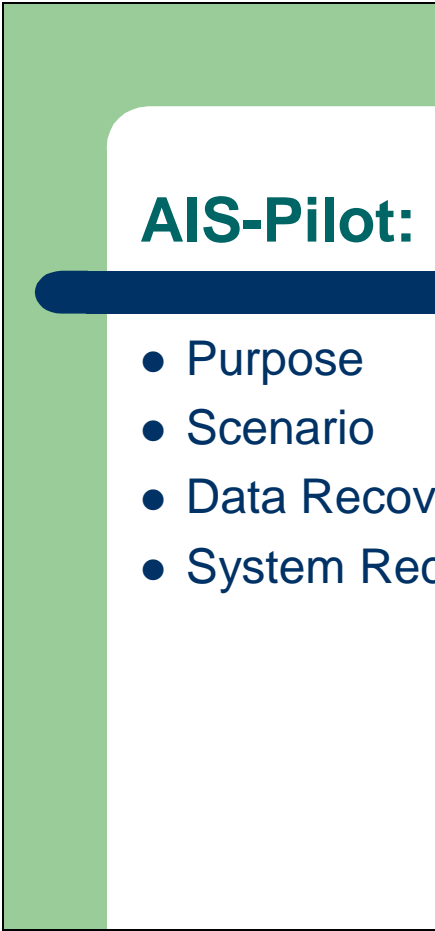
Presentation



AIS W2K-Pilot

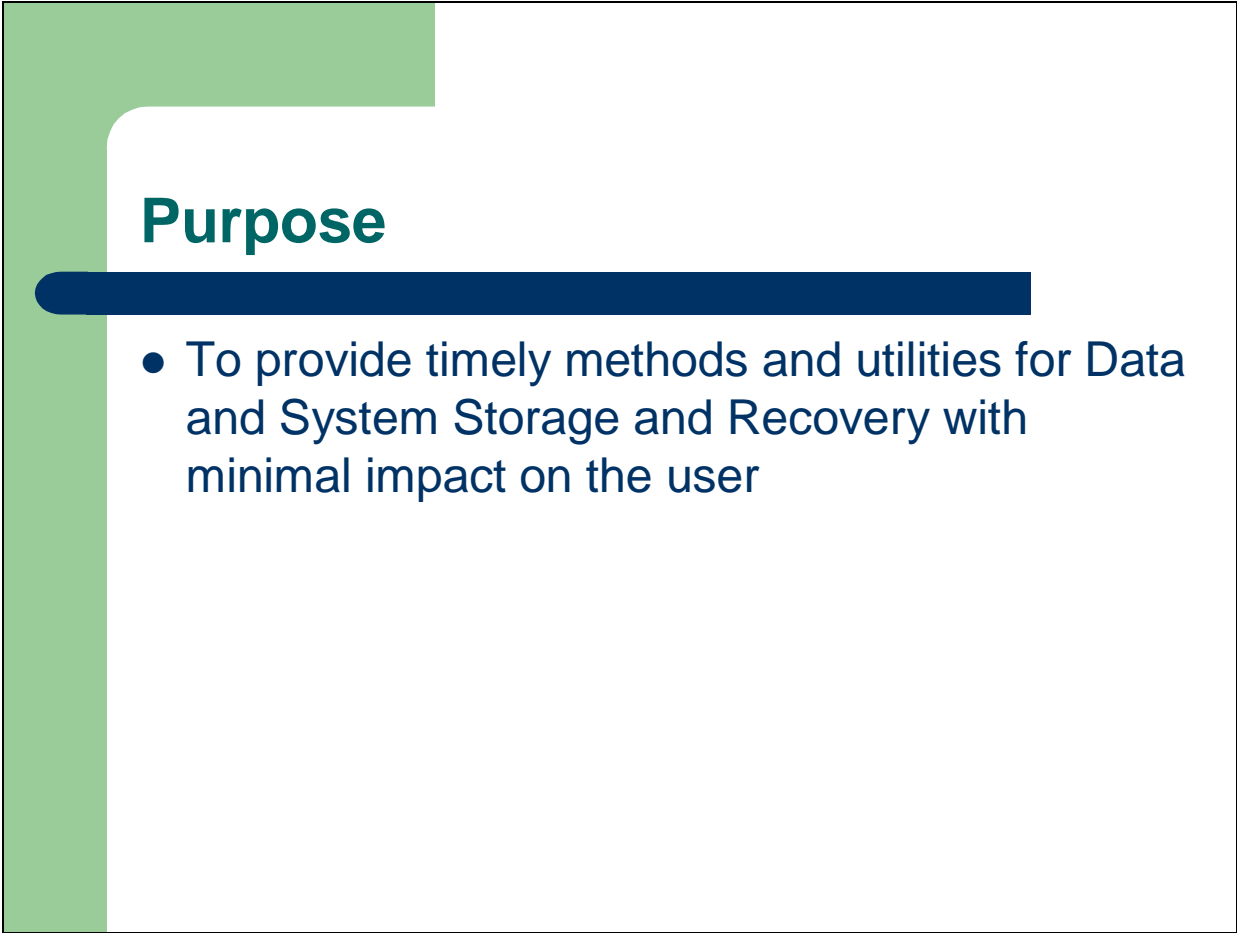
Backup Recovery

A large green graphic on the left side of the slide features a white rounded rectangle containing the title. A dark blue horizontal bar is positioned below the subtitle.



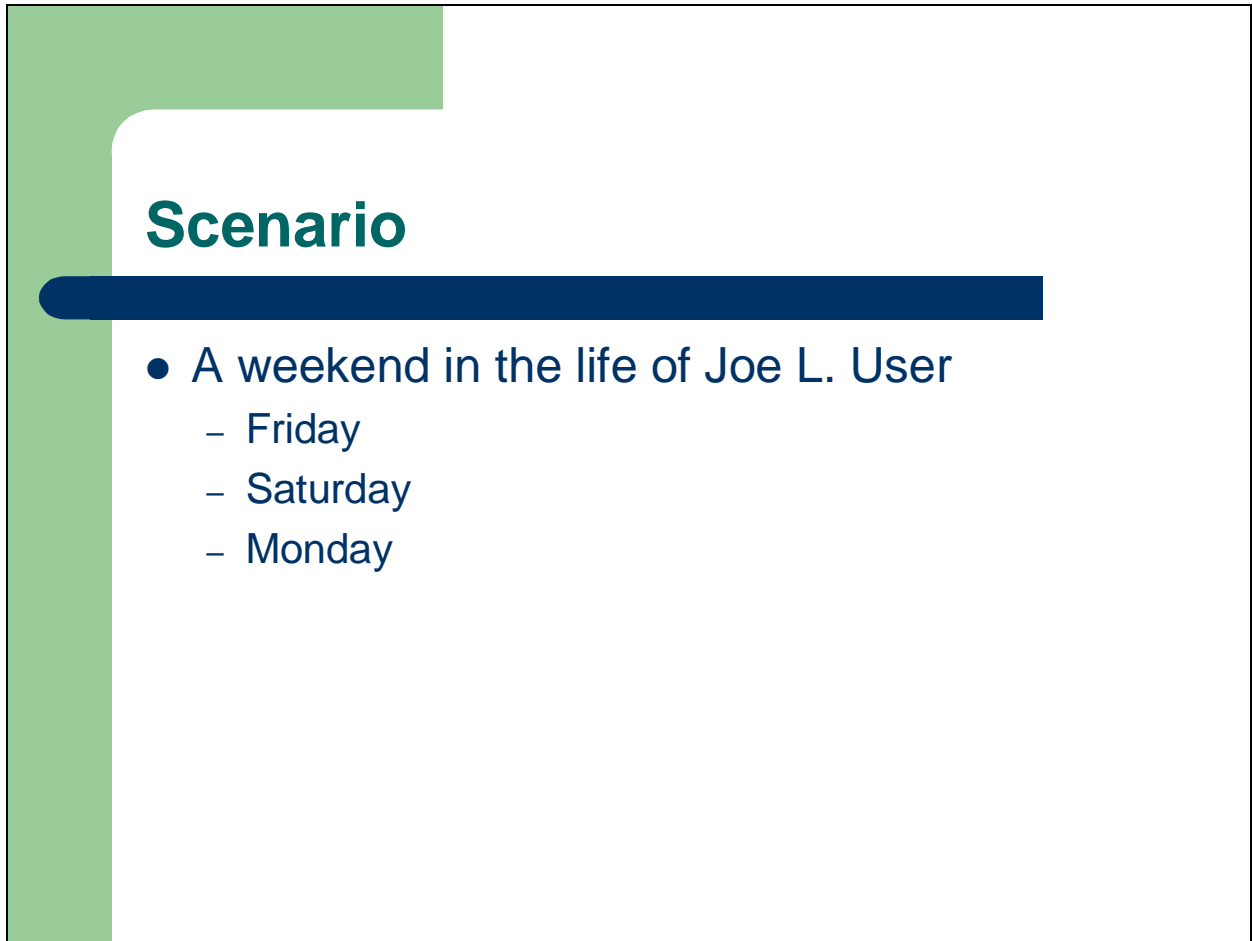
AIS-Pilot: Backup Recovery

- Purpose
- Scenario
- Data Recovery
- System Recovery



Purpose

- To provide timely methods and utilities for Data and System Storage and Recovery with minimal impact on the user



Scenario

- A weekend in the life of Joe L. User
 - Friday
 - Saturday
 - Monday

Friday

- Logs in at work
 - Wallpaper of his daughter and dog
- Creates an Excel document and saves it in “My Documents” and leaves for a meeting across campus where he is to present the Excel document
- Arrives at meeting and logs onto conference room computer
 - Wallpaper of his daughter and dog
 - Opens “My Document”, finds the Excel document, and presents it
 - Invited to give presentation at “Department Head Seminar” next week
- Returns to office - edits the Excel document and creates a PowerPoint presentation to go with it; Saves both files to “My Documents”
- At the end of the day, he runs “Snapshot” on his computer to do a system backup and goes home

Saturday

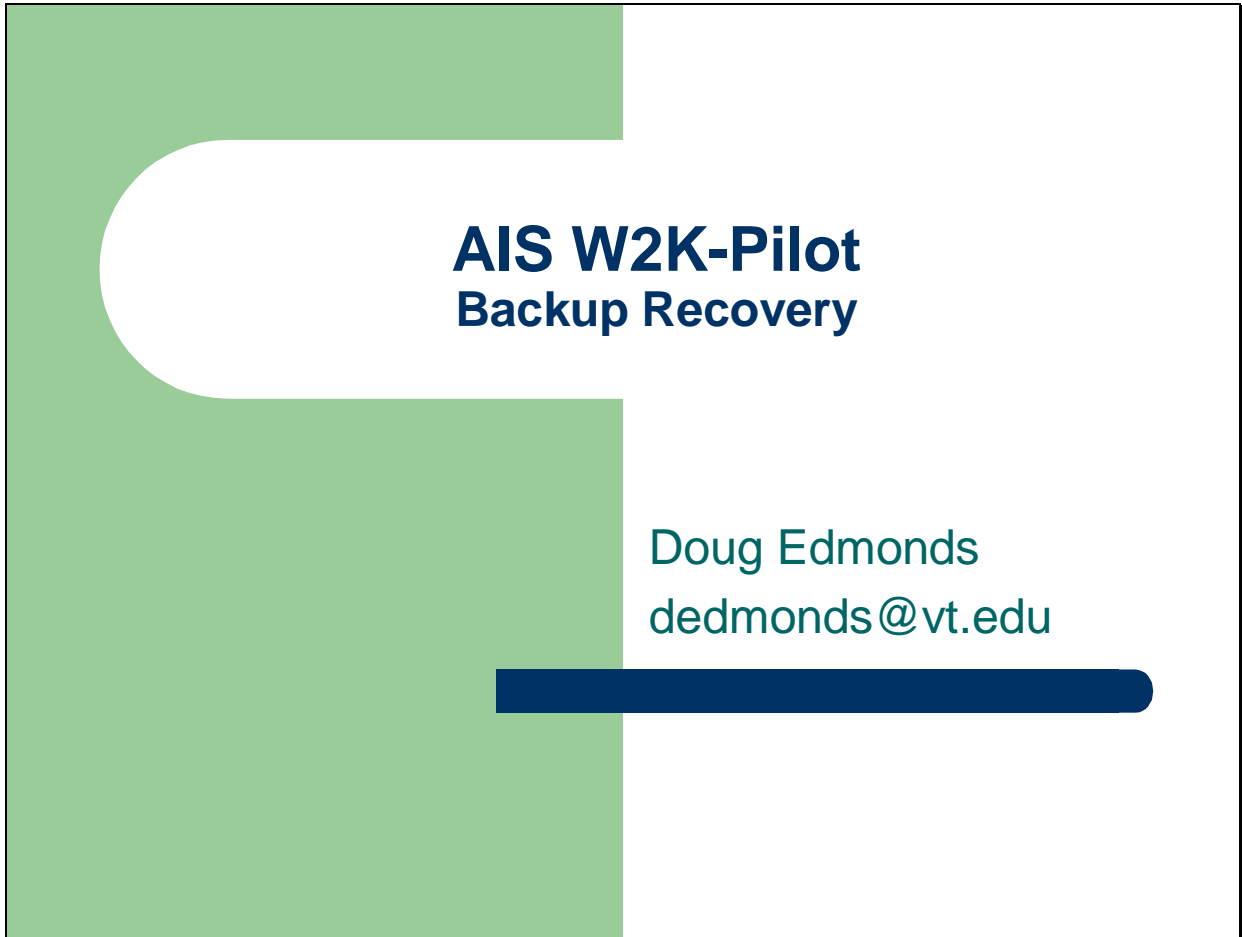
- At home, he logs onto the VT Network
 - Goes to “My Documents” and opens the Excel and PowerPoint files and continues working on them

Data Recovery

- Roaming Profiles
 - User Personalization
- Offline Stores/Folder Redirection
 - User Data
- NAS
 - All Data stored in individual directories
 - Backed up using the CC Backup Solution
 - Secured using NTFS permissions

System Recovery

- **Lazarus**
 - Disaster Recovery
 - Returns Computer to “0-State”
 - Does Not Contain User Data, only OS
 - Archived on DVD-Ram, used by Tech Support
- **Snapshot**
 - Stores “snapshot” of current state of the computer
 - Returns computer to snapshot state
 - Limited to one snapshot
 - Ran at user’s discretion



**AIS W2K-Pilot
Backup Recovery**

Doug Edmonds
dedmonds@vt.edu

