University of Hawaii
And The Banner Implementation
Brown Bag: December 12, 2002

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And The Banner Implementation

Presentation Roadmap

• Banner Milestones, past and present
• High Level Infrastructure Overview
  – Hardware
  – Network
  – Software
• Questions!?
Banner Milestones
From Then to Now

- Dec ‘01, Banner Selected for the UH System
- Feb ‘02, Loaner Hardware arrives from Sun and Banner installations begin
- Apr ‘02, Design for Banner Hardware Configuration completed
- Jun-Aug ‘02, Banner Implemented for CCs
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Banner Implementation
Hardware Architecture

• High performance
• Scalable
• Fault Tolerant
• Secure
Publicly-Accessible Servers

Diagram:
- Campus/Internet
- Packet Filtering
  - HA Firewall
- 100BaseTX
- public production
- Direct Server Return
- HA Load Balancer
- frmNN servers
- rptNN servers
- ssaNN servers
- Packet Filtering
- HA Firewall
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Private Back-end to Databases

Packet Filtering

HA Firewall

100BaseTX

public production

Direct Server Return

HA Load Balancer

Packet Filtering

private interconnect

private production

Packet Filtering

private production

Production database

Test, dev, & failover database

Datamart

Campus/Internet

Packet Filtering

frmNN servers

rptNN servers

ssaNN servers

Packet Filtering

Packet Filtering
Isolated Management Network
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Network Configuration

• Performance
• Fault tolerance
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Oahu Connectivity

Legend:
- OC3 Packet over SONET (POS)
- Gigabit Ethernet
- Fast Ethernet
Banner Milestones
From Then to Now

November 2002
- 12, Web for Students, Live for CC’s
- 14, Web for Admissions, Live for CC’s
- 25, West Oahu Registration, Live
- 27, MIF Test Environment
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Services Configuration

- Banner Functions: General Student and Financial Aid – frmNN
- Web For Students/Faculty/Admissions – ssaNN (self service applications)
- Discoverer Report Application, Viewer and Plus – rptNN
Banner - Application

- Internet native Banner using Oracle’s Form Server
- All functionality for student and financial aid processing only requires an Internet connection and a browser.
Student Financial Aid

• Students can now login and check the status
  – Loans
  – Grants
  – FinAid history
  – Check disbursements
Web for Students

- Register
- Average time two to three minutes
- Add/drop classes
- Check their records
- Unofficial transcript
- Update their personal information
Web for Admissions

- Students can apply for different programs
- Across campus
- Check catalog
- System very user friendly and simple
Web for Faculty

- View student class list in real time.
- Access information about their students.
- View student transcripts for students registered in their course.
- Enter grades.
Self-Service Applications

- Campus/Internet
- Packet Filtering
- HA Firewall
- frmNN servers
- Direct Server Return
- rptNN servers
- ssaNN servers
- 100BaseTX
- Private interconnect
- Packet Filtering
- private production
- gigabit ethernet
- Production database
- Test, dev, & failover database
- Datamart
- fibre channel
- High-end Storage System
- ShadowImaging
Registration

- Using Oracle 9iAS Portal for development
- Fast delivery
- Students can query in real time the status/availability of classes
Report Services

- Campus/Internet
- Packet Filtering
- HA Firewall
- 100BaseTX
- public production
- Direct Server Return
- frmNN servers
- gigabit ethernet
- Packet Filtering
- private interconnect
- Packet Filtering
- private production
- HA Load Balancer
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- ssaNN servers
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- Production database
- Test, dev, & failover database
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- High-end Storage System
- Shadow Imaging
Discoverer Viewer

Reporting for Banner
- Discoverer Viewer
- Discoverer Plus
- Oracle Report Server
Banner Milestones
From Now Through Spring

December
• 06, MIF Datamart Installed
• 09, Datamart Student, Staff Trained
• 16, Fin Aid/FMIS Interface, in Production

January 2003
• 03, Fin Aid MIF Test Environment
• 13, Workflow Installed, Staff Trained
Banner Milestones
From Now Through Spring

February 2003
• 07, Datamart FinAid, Staff Trained
• 21, FinAid MIF Acceptance Testing Done

March 2003
• 21, Banner MIF Conversion
• 31, Banner MIF, Live
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Questions!??