Institutional Dashboards

Phase 1

Institutional Dashboards

Committee of the Whole

December 2015

IEMs

Student Success Measures

- Developmental Education Success
- Success in Gateway Courses
- Advancement Rate
- Persistence Rates
- Completion Rates

Institutional Success Measures

- Diversity
- High School Penetration Rate
- Facilities (NEW)
- Student Costs
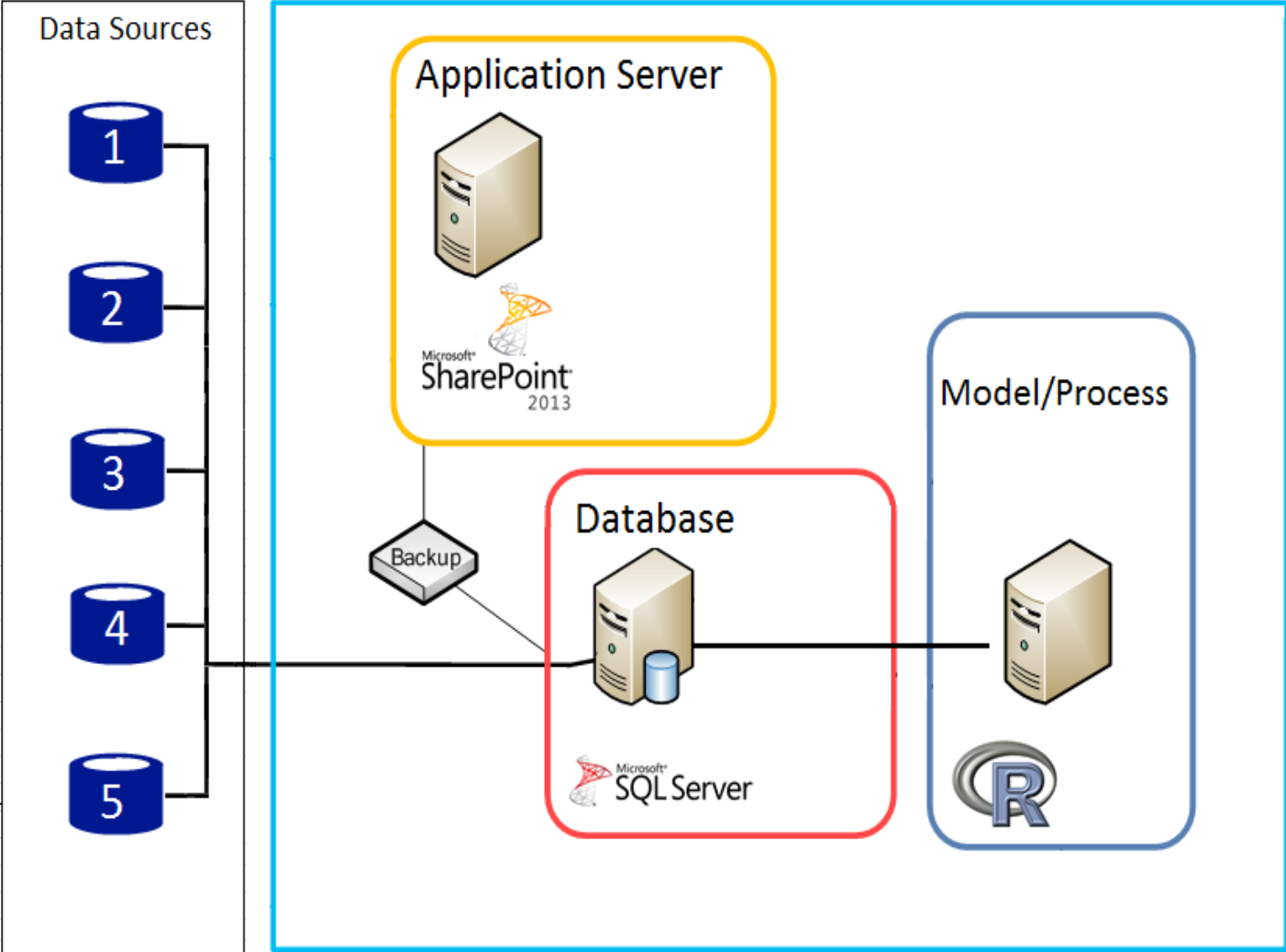- Information Technology (NEW)

DASHBOARDS

When Completed	Phase 1

Institutional
   — **Student Success**
   — **Institutional Success**
   — **Enrollment/Access**
 	
Operational
 	
Student
	Institutional
	— **Student Success**
	   • **5 measures/indicators/peer**
	— **Institutional Success**
	   • **3 measures/indicators**
	
	• **Student**

Student Information - Production

Data Sources

1
2
3
4
5

(87 tables)

Application Server

Microsoft SharePoint 2013

Backup

Database

Microsoft SQL Server

Model/Process

R

MAJOR DATA SOURCES

Banner
Student Information System

E-Business suite
Human Resource and Financial Management solution

ODS
Operational data warehouse for Banner only

Starfish
Early Alert software solution

AIM
Access and disabilities students and services database

SARS
Scheduling system for advisors and students

AccuSQL
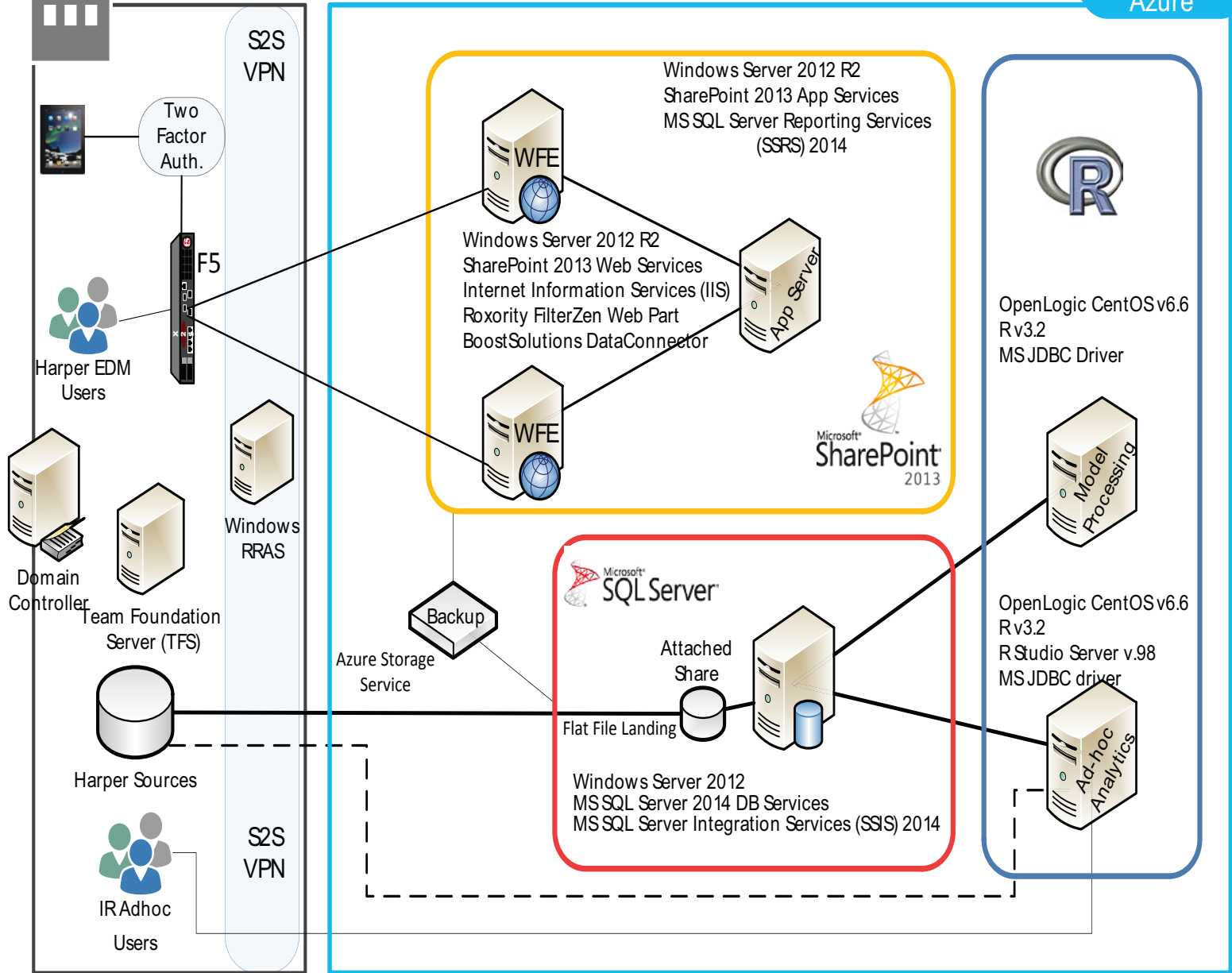Tutoring, athletics, and kinesiology student database

Live Demo

https://prodedmsp.harpercollege.edu/Institutional/

Questions

Production / VNet A

On Premise

Microsoft Azure

S2S VPN

Two Factor Auth.

F5

Harper EDM Users

Domain Controller

Team Foundation Server (TFS)

Windows RRAS

Harper Sources

S2S VPN

IR Adhoc Users

Windows Server 2012 R2
SharePoint 2013 App Services
MS SQL Server Reporting Services (SSRS) 2014

WFE

WFE

Windows Server 2012 R2
SharePoint 2013 Web Services
Internet Information Services (IIS)
Roxority FilterZen Web Part
BoostSolutions DataConnector

App Server

Microsoft SharePoint 2013

Backup

Azure Storage Service

Microsoft SQL Server

Attached Share

Flat File Landing

Windows Server 2012
MS SQL Server 2014 DB Services
MS SQL Server Integration Services (SSIS) 2014

R

OpenLogic CentOS v6.6
R v3.2
MS JDBC Driver

Model Processing

OpenLogic CentOS v6.6
R v3.2
R Studio Server v.98
MS JDBC driver

Ad-hoc Analytics

SOFTWARE REQUIREMENTS

- Microsoft SharePoint 2013
- Microsoft SQL Server Enterprise
- Microsoft SQL Server Integration Server
- Roxority FilterZen for SharePoint
- Microsoft PowerView
- Microsoft SQL Server Reporting Service
- *R*: Version 3.0.0 or above with the following packages
  - RODBC (connect R and SQL server)
  - GGPLOT2 (plots for data visualization)
  - MAPTOOLS (heat maps for data visualization)
  - SURVIVAL (survival analysis)
  - GEE (generalized estimation equation)
  - NLME/NLME4 (Linear mixed-effects model and generalized linear-mixed effects model)
- TFS

HISTORICAL DATA

All historical data beginning with the summer 2009 session are included in the initial implementation.

DATA UPDATE SCHEDULE

Hourly

Student
Student Address
Student Email
Student
Identification
Student Other
Name

Weekly

Student Program
Attendance Event
Student Program Enrollment

Bi-Semester (midpoint/final)

Course
Course Offering
Student Assessment
Student Assessment Score
Result
Student Characteristics
Student Cohort
Student Diploma
Student Diploma Academic Honor
Student Diploma
Graduation Plan
Student Disability
Student Graduation Plan
Student Report Card
Student School Enrollment