Cloud Services and Student Data Privacy in Henrico County Public Schools

November 18, 2014
Agenda

• District Overview
• Cloud Services
• Content Filtering
• Digital Citizenship
• Student Information System
Henrico County Public Schools

- 49,894 Students
- 6,672 Staff
- 75 Facilities
  - High speed internet access at all locations
  - Wireless network access at all locations
- 1:1 Computing Initiative
  - World’s first K-12 1:1, started in 2001
  - All secondary students (25,000)
  - Elementary students have access to classroom and cart based computers and tablets
Cloud Services

• Cloud Computing
  • New approach to traditional networked computer services
  • Web Technology
  • Platform agnostic

• HCPS has been using cloud services for over 14 years

• Public vs. Private Cloud vs. Hybrid
  • HCPS uses all approaches
  • Public – Google
  • Private – SchoolSpace Learning Management System
  • Hybrid – Staff email using Microsoft Exchange and Office 365, Pearson Test Nav
Cloud Services

• Services used by Teachers
  • Google Docs
  • Office 365
  • Talent Ed

• Services Used by Student
  • Google Apps for Education
  • Gmail (Secondary students)
  • Content services (YouTube for Education, Learning, Discovery, Study Island, Brain Pop)
  • Assessment tools (IA, Pearson Test Nav, NWEA)
Cloud Services

• Terms of Service
  • Many cloud services restrict usage to certain age groups (ex. 13+)
  • HCPS works with cloud vendors to ensure terms of service for age and data usage are aligned with policy and for student use
  • Reliance on free services limits HCPS control
  • Providing professional development to teachers regarding terms of service

• Personally Identifiable Information
  • Definition: Information that can be used on its own or with other information to identify, contact, or locate a single person, or to identify an individual in context.
  • HCPS limits content shared with vendors on a need to know basis
  • Clear data usage protocols documented in policies and contract language
Content Filtering

• Requirement to Qualify for e-Rate Funding
  • Children’s Internet Protection Act
  • Child Online Protection Act

• YouTube for Education
  • Educational content
  • Instructionally relevant and vetted

• Exception Process
  • Instructionally relevant content
  • Reviewed by HCPS content specialists
Digital Citizenship

• Appropriate behavior instead of tight control
  • Technology will never provide a perfect solution
  • Emphasize classroom management and engagement

• Internet Safety Training
  • Teachers, Students and Parents
  • Additional training for rising 6th graders and parents
  • Social Media usage

• Acceptable Use Policy
  • Outlines appropriate and inappropriate technology usage
  • Applies to students and staff
  • Signed by students and parents

• Information Security
  • Network and system controls to limit unauthorized access
  • Strong passwords for all users
Student Information System

- Pearson PowerSchool
  - Web based and public facing
  - Demographic information
  - Grades

- Locally hosted
  - All PowerSchool servers hosted at the HCPS datacenter
  - Limited system integration with other services
    - Data shared with other services is pre-defined by HCPS
    - Aligned with privacy policies

- User Identity Management
  - Active Directory (AD) repository of user information
  - PowerSchool and other systems use AD for authentication and authorization services
  - AD servers hosted at the HCPS datacenter
Questions?