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- ### Outline
- Cloud Computing
  - Overview Data Analysis System (DAS)
  - Data sets available for analysis
  - A basic DAS analysis
  - Downloading DAS results
  - Audience-directed analysis (if time)
  - Contacting us
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- ### What is Cloud Computing?
- Web-accessible, "Pay as You Go" computing.
  - Some example perspectives:
    - *Cloud Computing Explained*
      - <http://www.youtube.com/watch?v=QJncFirhiPg>
    - *Cloud Computing Plain and Simple*
      - <http://www.youtube.com/watch?v=XdBd14rjcs0&NR=1>
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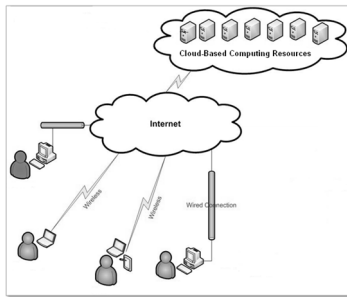
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## The Cloud Computing Concept



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## Cloud Computing for You

- From our perspective in academia and educational support, cloud computing can be defined as:

*Using **scalable, virtual** computing resources – provided by vendors as a service over the Web – to support your computing requirements without the need for local infrastructure investment.*

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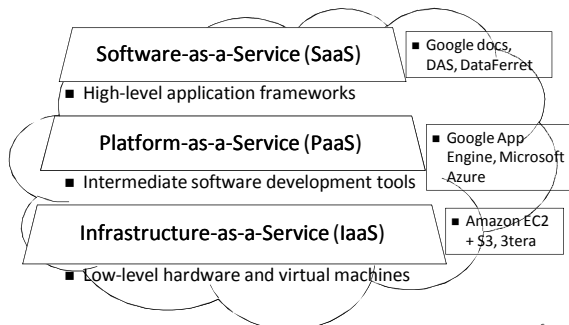
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## Categories of Cloud Services



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### What is DAS?

- The **NCES Data Analysis System (DAS)** is a public-access, cloud-based data analysis and retrieval system.
  - Developed by the **U.S. Department of Education** to share their collection of data and resources related to education.
- Using DAS you can:
  - Create your own analysis tables and covariance analyses.
  - View/download thousands of analysis tables and the DAS programming files used to create them.
  - View the highlights of report findings, with figures and tables, for various topics written by researchers for NCES.

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### What DAS Provides - Datasets

- DAS currently provides 34 datasets of longitudinal educational and behavioral data organized into 4 categories:
  - **Early Childhood** – pre-elementary education for children with disabilities in 2003-4, 2005, 2006, 2007, and 2009
  - **Elementary/Secondary**
    - **8<sup>th</sup> graders** (with parents, teachers, and administrators) in 1988, 1990, 1992, 1994, and 2000
    - **10<sup>th</sup> graders** (education plus life behavior) in 1986, 1992, and 1996
  - **Postsecondary** – students, faculty and institutions
    - **College graduates** – 1992-1993 and 2002-3
    - **Students beginning postsecondary education** – 1996, 1999 and 2003
    - **All postsecondary students** (Student financial aid) – 1987, 1990, 1993, 1996, 2000, 2004 and 2008
    - **Postsecondary: Faculty** – 1987-88, 1992-93, 1998-99 and 2003-4
    - **Postsecondary: Institutions** – 2002, 2003, 2004, 2005, 2006 and 2007; plus faculty – 2003-4
  - **Household Studies** (adult education) – 2005

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### What DAS Provides - Reports

- DAS also provides analysis reports, organized by release year, in the following areas:
  - Access, Persistence, and Attainment of a Degree
  - Financing Postsecondary Education
  - Student Profiles/Descriptive Summaries
  - Life After College
  - Postsecondary Faculty
  - K-12 Teachers
  - Other Topics (institutions, dropouts, etc.)

<http://nces.ed.gov/das/reports/index.asp>

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### How Do You Use DAS?

- Simply point your Web browser to:  
<http://nces.ed.gov/das/>



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### What's Available?

- Access educational survey data and analysis reports on:
  - Early childhood
  - Elementary/Secondary
  - Postsecondary: Students
  - Postsecondary: Faculty
  - Postsecondary: Institutions
  - Household Studies (Adult Education)

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### Example Questions

- Below are 2 possible questions that we can answer using DAS.
  - Is there a difference in the types of colleges attended by students who are deaf or hard of hearing versus those who are hearing?
    - Where type = 4yr, 2yr, or <2yr
  - Is there a difference in the college persistence rates for persons who are deaf or hard of hearing and those who are hearing?

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Some Sample Exercises

[ Now it's your turn! ]

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### Exercise 1 – Gender & Attendance

**Question:** Are there gender differences in college attendance between individuals who are deaf or hard of hearing and those who are hearing?

**Step 1:** Go to <http://nces.ed.gov/das/>  
**Step 2:** Click "DAS ONLINE APPLICATION"  
**Step 3:** Click "Create Tables" under "DAS Online 2.0 BETA"  
**Step 4:** Click "Postsecondary: Students"  
**Step 5:** Click "2008: Undergraduates"  
**Step 6:** Click "I agree to the terms above."  
**Step 7:** Click "4 Disabilities"  
**Step 8:** Click "Disability: main type of condition or impairment"  
**Step 9:** Click the "Select a Tag" tab  
**Step 10:** Click "Row\_Cat"  
**Step 11:** Uncheck all conditions **except** Hearing impairment. Check the (Skipped) box and change "(Skipped)" to "Hearing". At bottom of page click [Save]  
**Step 12:** Click "4 Demographics"  
**Step 13:** Click "Gender"  
**Step 14:** Click the "Select a Tag" tab  
**Step 15:** Click "Column\_Cat"  
**Step 16:** At bottom of page click [Save]  
**Step 17:** Scroll to top of page and click [Run]  
**Step 18:** Type in a "Title" (Required) and a "Footnote" (Optional) Click [Run]  
**Step 19:** Click [Run] after reviewing input parameters  
**Step 20:** At bottom of page select an option: (VIEW, a DOWNLOAD type, or RETURN)

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### Output from Exercise 1

National Center for Educational Statistics			
Computation by DAS-T Online Version 5.0 on 6/14/2010			
Exercise deaf and hearing by gender			
Variance estimation method: BRR			
	Gender		
	Male (%)	Female (%)	
Estimates			
Total	43.1	56.9	
Hearing	43.1	56.9	
Hearing impairment	45.7	54.3	
Standard Error (BRR)			
Total	0.6	0.6	
Hearing	0.62	0.62	
Hearing impairment	3.01	3.01	
Weighted Sample sizes (n/1,000s)			
Total		20,927.9	
Hearing		18,662.1	
Hearing impairment		136.9	
Source: U.S. Department of Education, National Center for Education Statistics, 2007-08 National Postsecondary Student Aid Study (NPSAS:08).			

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