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NIST Cloud Computing

www.nist.gov/itl/cloud/

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Latest News

- **Announcement of Cloud & Accessibility Public Working Group Formation**

- **The Intersection of Cloud and Mobility Forum and Workshop - October 1-3, 2013**

- **Cloud Computing Forensic Science Workshop October 3, 2013**

Cloud Collaboration Site Information

- **NIST Cloud Computing Collaboration Site (Twiki)**

- **Registration for Twiki & Email Lists**

- **Useful Information for Cloud Adopters**

Strategic efforts:

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NIST Cloud Computing Program

Cloud computing is a model for enabling convenient, on-demand network access to configurable computing resources (e.g., networks, servers, storage, applications, a rapidly provisioned and released with minimal management effort or service provid model promotes availability and is composed of five essential characteristics (On-d Broad network access, Resource pooling, Rapid elasticity, Measured Service); three Software as a Service (SaaS), Cloud Platform as a Service (PaaS), Cloud Infrastruct (IaaS)); and, four deployment models (Private cloud, Community cloud, Public clou enabling technologies include: (1) fast wide-area networks, (2) powerful, inexpens and (3) high-performance virtualization for commodity hardware.

The Cloud Computing model offers the promise of massive cost savings combined It is considered critical that government and industry begin adoption of this techno difficult economic constraints. However, cloud computing technology challenges ma approaches to datacenter and enterprise application design and management. Clo currently being used; however, security, interoperability, and portability are cited a broader adoption.

The long term goal is to provide thought leadership and guidance around the clou catalyze its use within industry and government. NIST aims to shorten the adoptio enable near-term cost savings and increased ability to quickly create and deploy e NIST aims to foster cloud computing systems and practices that support interopera

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NIST Home > ITL > Cloud Computing > Reference Architecture

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Reference Architecture

- NIST will lead interested USG agencies and industry to define a neutral cloud reference architecture and taxonomy to extend the NIST cloud computing me frame of reference to facilitate communication, and to illustrate and understa services in the context of an overall Cloud Computing Model. NIST will lead a open public stakeholder meetings, and working groups created through an process. The expectation is that industry, SDOs, consortium, as well as fede governments will actively participate and contribute.

Meetings

- Meeting #1: This announcement is to inform you of the kickoff meeting for th Computing Reference Architecture & Taxonomy Working Group. It will be hel Monday, January 10, 2011 from 1100-1300 EST. Dial up information and mat from the NIST Cloud Computing Twiki site.

The National Institute of Standards and Technology (NIST) is an agency of the U.S. Department of Commerce.

www.nist.gov/itl/cloud/bususecases.cfm

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Business Use Cases

- NIST will lead interested USG agencies and industry to define target USG Clo
  business use cases (set of candidate deployments to be used as examples)
  model options, to identify specific risks, concerns and constraints. For examp
  deployment might be employee email or migration of a specific application sy
  cloud computing model option. NIST will lead and facilitate this effort via the
  sponsored Cloud Computing Standards Working Group and working groups

Meetings

The Business Use Cases Working Group holds regular meetings via telecom every
pm eastern time.

Dial-in: (877) 602-4913 (toll free) or (203) 320-7981 (toll)
Participant Code: 3699928

More information can be found at the NIST Cloud Computing Twiki site.

The National Institute of Standards and Technology (NIST) is an agency of the U.S. Department of Commerce.

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