

Specific standards for cloud computing are still in development. In an inventory by the NIST in July 2011, three groups of standardization were distinguished:

- Interoperability
  - Self-service IaaS management interface standard. For example, Open Cloud Computing Interface (OCCI) and Cloud Data Management Interface (CDMI).
  - Standard for a functional interface for SaaS (most often through a web browser, and as such not specifically for the cloud).
  - Standard interfaces of SaaS with other systems (not specifically for the cloud).
- Portability
  - Standards for cloud workload formats: a way to bring virtual machine images to the cloud. For example, Open Virtualization Format.
  - Data portability. For example, use of Extensible Markup Language (XML) and JavaScript Object Notation (JSON) (not specifically for the cloud).
  - Standardization of workload and data portability still requires a lot of development. An interesting feature of the cloud is “the right to be forgotten.” In other words, is data really deleted after a migration?
- Security
  - The regular standards in this field.

On the [NIST website](#), elaborate tables can be found with standards in the areas of interoperability, portability, and security.

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