## Why "Cloud" ?

Very often on diagrams, the Internet was symbolized by a nice cloud clipart. It was a convenient way to sum up the complexity of the worldwide network linking two or more LANs.

## Humans (IT) and machines (IoT)

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|---|---|
| **Human-generated traffic** | You, me, them, us : browsing the web, sending e-mails, video-conferencing, downloading, uploading... Good old IT. |
| **Machine-generated traffic** | Also known as the *Internet of Things* (IoT) : sensors, alarms, probes, detectors, devices, ... A galaxy of autonomous Cloud--enabled equipments running some form of synthesized intelligence. |

## 1 Cloud, 3 categories

| | | |
|---|---|---|
| **Infrastructure (IaaS)** | Provides servers, OSes, virtualization, network and storage. | Amazon Web Services, Microsoft Azure, AT&T, CenturyLink Technology Solutions, Cisco Systems, Cloudscaling, Comcast, EMC, GoGrid, Green Cloud Technologies, Hewlett-Packard, IBM, Joyent, NaviSite, Nebula, NTT Communications, Peak, ProfitBrick, Rackspace, Terremark. |
| **Platform (Paas)** | Provides a computing platform and a solution stack as a service. | Apprenda, CloudBees, CumuLogic, Docker, Engine Yard, Eucalyptus Systems, GigaSpaces, Morphlabs, MuleSoft, Parallels, Piston Cloud Computing, Pivotal Software, Puppet Labs, Ravello Systems, Red Hat, RightScale, ScaleXtreme, Software AG, StackDriver, Xively. |
| **Application/-Software (SaaS)** | Provides access to centrally hosted software. | Acumatica, Avalara, BetterCloud, Birst, Cloudability, FinancialForce, Google, Insightly, Intacct, Jaspersoft, Marketo, NetSuite, Oracle, Paxata, Salesforce.com, SAP, Star2Star Communications, Tableau Software, Workday, Zoho. |

## 1 Cloud, 3 types

| | |
|---|---|
| **Private** | A Cloud infrastructure entirely dedicated to one company. |
| **Public** | The services are rendered over a network that is open for public use. |
| **Hybrid** | A composition of two or more clouds (private or public) that remain distinct entities but are bound together. |



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