

### 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)

**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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