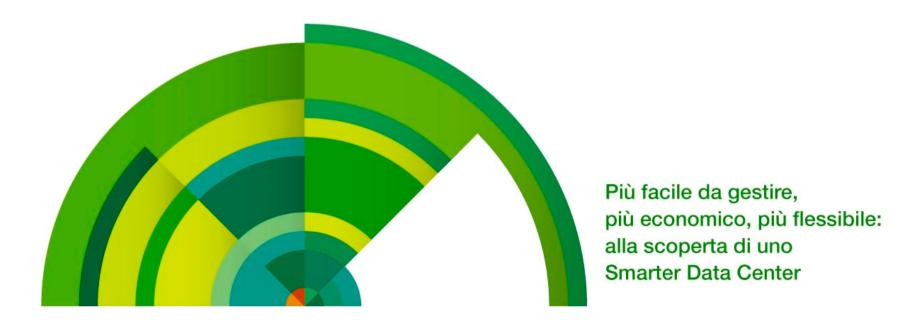
Smarter Data Center 2012



Laura Meroni

IBM Cloud Managed Services

Le soluzioni di cloud pubblico IBM SmartCloud Enterprise e IBM SmartCloud Enterprise+

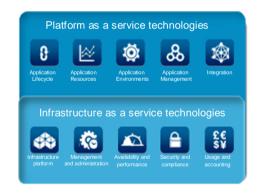


IBM SmartCloud represents the IBM vision for cloud computing

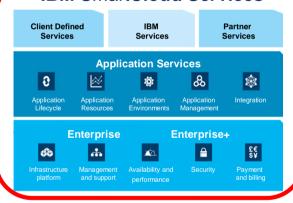
IBM SmartCloud



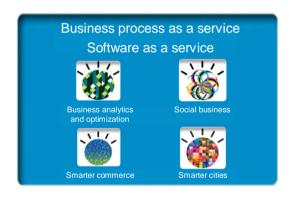
IBM SmartCloud Foundation



IBM SmartCloud Services



IBM SmartCloud Solutions



Proven Strategy Consulting, Migration, & Management Expertise

Cloud Standards Customer Council

Common Open Standards Technology and Industry Ecosystem

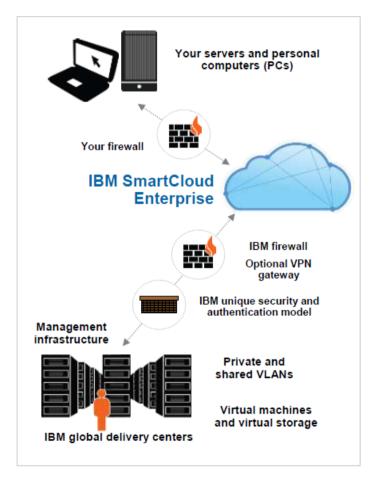






IBM SmartCloud Enterprise features and functions – at a glance

Italy landing page http://ibm.com/services/it/cloud



More at:

http://www.ibm.com/cloud/solutions/enterprise

Cloud Portal: http://www.ibm.com/cloud/enterprise

Features and functions:

- Nine virtual (Intel) server configurations (32/64 bit cfg) available
- Operating systems:
 - Linux; Red Hat, Novell SUSE or bring your own (e.g. Ubuntu)
 - Windows Server 2003 and 2008
- Choice of a pre-configured IBM or IBM Partner middleware/software images
- Persistent storage based on fixed blocks dynamically attached/detached up to 10TB each
- Object storage providing highly accessible and secure Internet file system with nearly unlimited capacity
- Virtual servers accessible directly from the Internet or isolated in expanded VPN environments
- Premium support services as a supplement to forums, with optional add-on operating system support (Italian language)
- Local support services (Onsite and Remote) Italy
- Six sites: US(2), Canada, Germany, Japan and Singapore with massive capacity

Payment options:

- Pay-as-you-go
 - Per hour usage charges for virtual servers, storage, software images, storage, VPN environments and static IP addresses
 - Full billing details downloadable from the cloud portal
- Reserved capacity package options



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Nine server and eight attachable persistent storage options enable you to configure systems to match a wide variety of workloads

Virtual machine (VM)	32-bit configurations			64-bit configurations					
Options	Copper	Bronze	Silver	Gold	Copper	Bronze	Silver	Gold	Platinum
Virtual CPUs with 1.25 Gigahertz	1	1	2	4	2	2	4	8	16
Virtual memory (GB)	2	2	4	4	4	4	8	16	16
Instance storage (GB)	60	175	350	350	60	850	1024	1024	2048

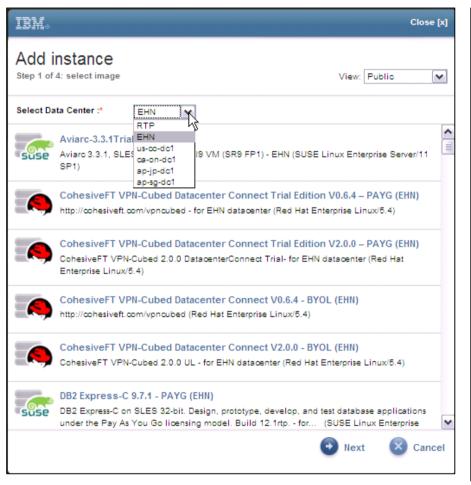


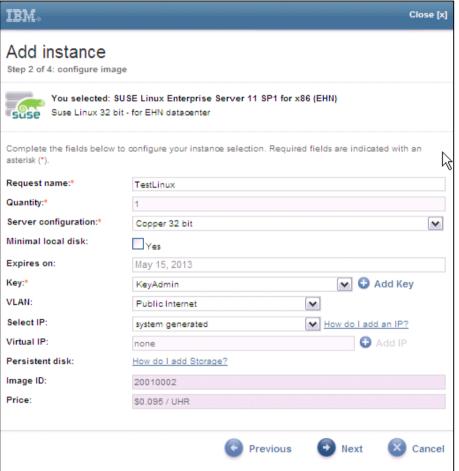
- Intel architecture servers can be provisioned with Linux (Red Hat, Novell SUSE or customer provided) or Microsoft Windows Server (2003 or 2008) and your choice of middleware.
- Prices start from 0,078 €per hour* for a virtual machine, including operating system. Reserved capacity options provide pools of resources at discounted rates.
- Dynamically attach and detach up to three extra blocks of persistent (RAID protected) storage to an instance, preformatted (ext3) or raw in eight sizes from 60 GB to 10 TB.





You can have your development and test environment running in minutes in either IBM Cloud datacenter





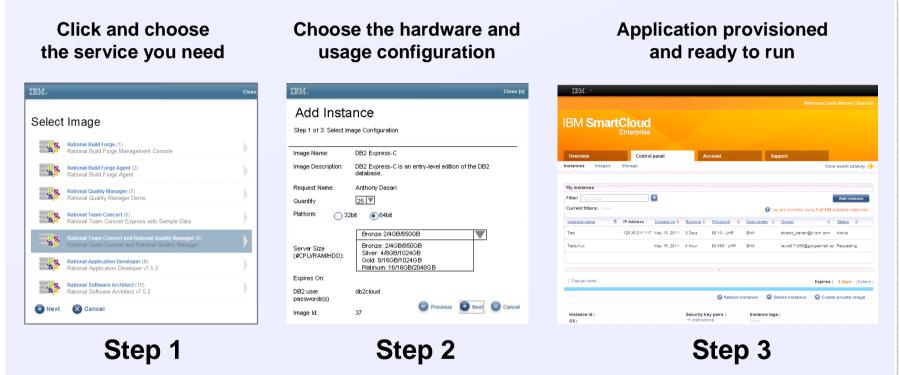




Environment running in minutes on the IBM Cloud

•The easy-to-use self-service portal guides you through the setup of what you need and triggers the automated provisioning of your servers



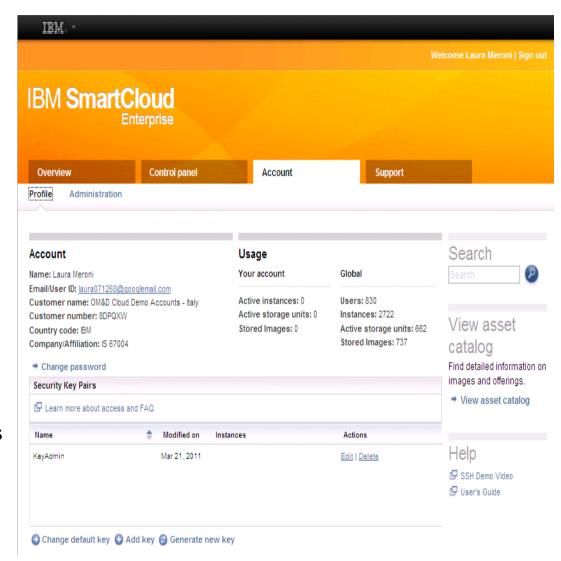






Monitor, manage and control through the Web Portal

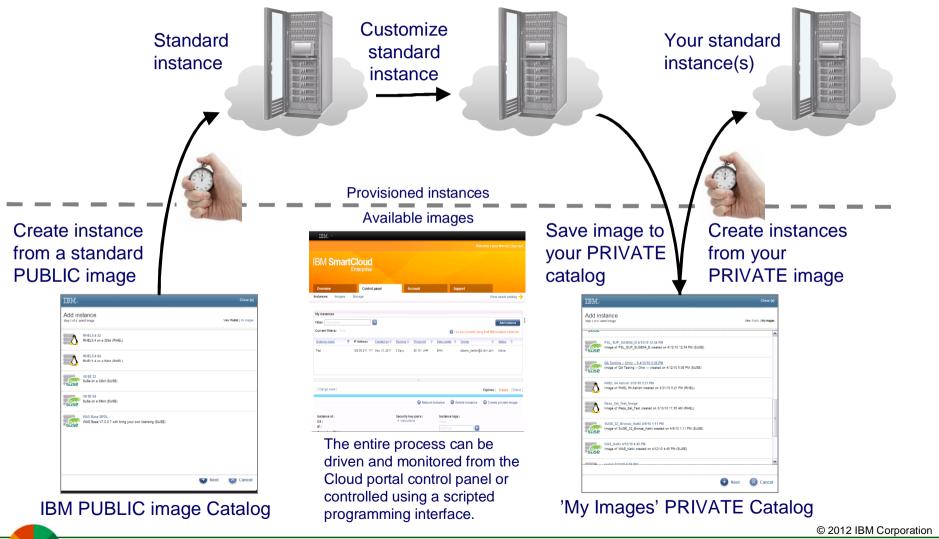
- Control tab
- Instance
- Images
- Storage
- Account tab
- Managing Users
- Usage overview
- Access keys
- IP addresses
- Support tab
- Forums
- Video & Document libraries





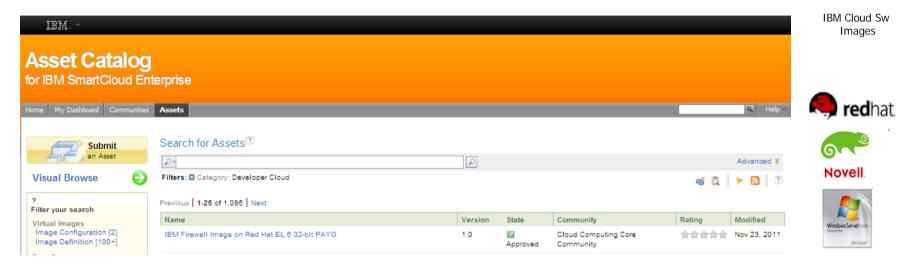


Working with virtual machine instances and images IBM Cloud Service Catalog Customization (Static)





IBM SmartCloud Enterprise software asset catalogs provide a software store for your server configurations



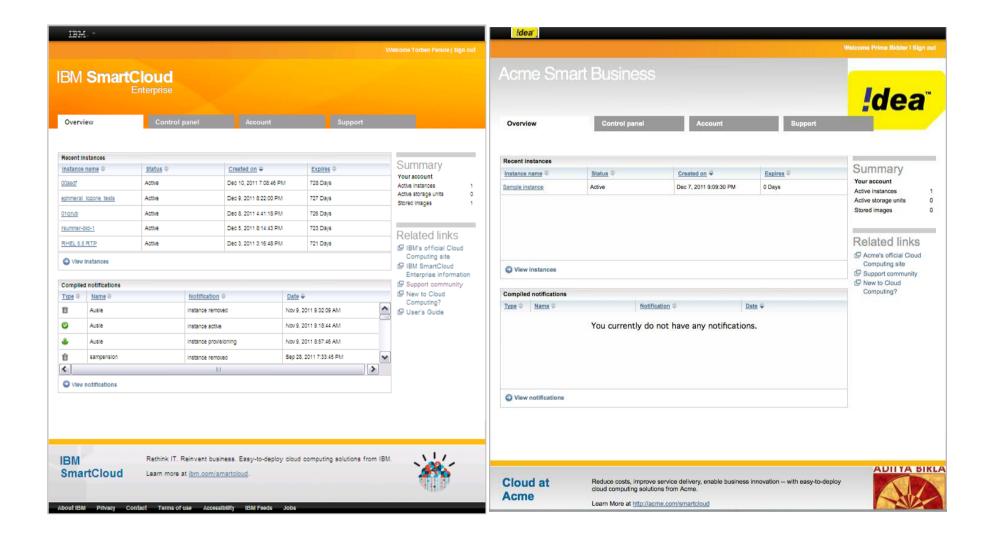
- The 'public' catalog contains a growing list of operating system Images with or without selected software and software bundles from IBM (Lotus®, WebSphere®, DB2®, Informix®, Cognos®, Tivoli®, Rational®), Alphinat, Aviarc, BeyondTrust, CohesiveFT, Corent, Grid Robotics, Kaavo, NetEnrich, OpenCrowd, Pragma Systems, Servoy, SugarCRM or Zeus.
- The licensing options include:
 - "Pay-as-you-go" ("PAYG"), with hourly rates: You choose the desired software, accept the license terms online, and receive a monthly usage bill
 - "Bring your own license" ("BYOL"): You own or buy a software license and can use the prebuilt image in the catalog
- Your 'private' and 'community' eatalogs provide a place for you to store and manage customized copies of public images and images you build in the cloud or import.



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White labeling/prime bidder overview







Support services

Forum Support (no charge)

Complimentary technical support for all services available through the IBM SmartCloud Enterprise web portal, including monitored forums.

Premium Support

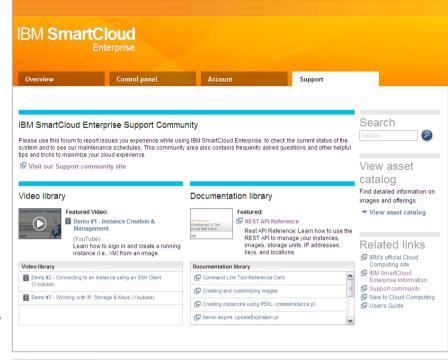
You can purchase Premium Support services that extend the complimentary Forum Support with

- Around-the-clock telephone support,
- A Web-based ticketing system to submit and review service requests,
- Remote technical support to assist in using the Web portal, accessing services, creating instances and managing image, functions within the portal, and
- The option to add operating system support.

Advanced Premium Support

Includes the services of Premium Support plus:

- Severity-level-driven response times, from 30
 minutes for severity 1 (severe impact to your
 business) to 24 hours for severity 4 (no business
 impact)
- A Service Level Agreement (SLA) with refunds, should IBM not meet committed response times









IBM SmartCloud Enterprise: Monthly cost estimator

IEM. -Estimated total monthly charge (Austria / EUR): € 2.687 Snapshot Software images Virtual machines Storage Internet data transfer Network access Support Compare models First, select the software images you want to run from the 'Software image' drop-down menu. Think of each line as a server type. The list of images includes standalone operating systems and operating systems combined with additional software, in 32- and 64-bit versions. For each image, the image name indicates the charge option associated with the image. PAYG stands for 'Pay as you go' and implies by-the-hour charges. BYOL stands for 'Bring your own license', i.e. you are bringing a license that you have already paid for. Description for your Software image Hourly rate Software monthly reference charges Web/HTTP servers SUSE Linux Enterprise Server 11 SP1 for x86 (64-bit) - all software charges included in the in n/a n/a Application servers IBM WebSphere Application Server V8.0 with feature packs Web 2.0. Mobile v1.1 and Dynar Prepaid Prepaid Database servers IBM DB2 Express-C 9.7.5 for Red Hat Enterprise Linux 5.8 (32-bit) - PAYG €0.000 €0 Please select the software image you want to run, then choose the virtual machine size on th €0 €0 Please select the software image you want to run, then choose the virtual machine size on th €0 €0 Please select the software image you want to run, then choose the virtual machine size on th €0 €0 €0 Please select the software image you want to run, then choose the virtual machine size on the €0 Please select the software image you want to run, then choose the virtual machine size on th €0 €0 Please select the software image you want to run, then choose the virtual machine size on th €0 €0 €0 €0 Please select the software image you want to run, then choose the virtual machine size on the Total monthly software charge €0 Next Start over Save your input Terms of use About IBM Contact Accessibility



The IBM enterprise-class service delivery platform plans to offer two tiers to help optimize delivery requirements and economics

IBMSmartCloud

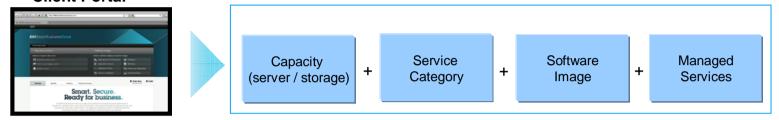
	Enterprise	Enterprise+
	Rapid access, multi-tenant solution scaled and priced based on usage	Robust multi-tenant solution, including managed production services
Workloads	Ideal for developing and deploying new application designs	Ideal for migration of traditional and higher availability applications
Operating system	Linux, Windows	Linux, Windows, AIX
Management level	Self service with advanced premium support	Fully managed from infrastructure to application
Availability	99.9%	98.5-99.9%
Security	Virtual and some physical isolation	Multiple levels of isolation
Software usage	Bring your own / pay as you go / free developer use	IBM provides operating system and tool licenses
Pricing	Hourly usage-based with reserved options	Monthly usage-based and fixed contract





SCE+ provides a laaS reliable and secure infrastructure to provision cloud resources using the administration portal

Client Portal



Example

Capacity Service Category		Software Image	Managed Services	
64-bit System x Virtual Machine	99.5 Silver SLA	RHEL Linux 5.4	Operating System	
8 CPU, 16GB RAM, 384GB Storage	24-hr service request fulfillment	DB2 Enterprise Edition v9.7.1	Optional MW/DB Monitoring	

Package	VM Availability- SLA	Infrastructure Services			
Bronze	98.5%	 32-bit and 64-bit System x – Windows & Linux 64-bit System p - AIX Any VM sizes 24-Hour Service Request Fulfillment 			
Silver	99.5%	 Includes Bronze Infrastructure Services, plus Selectable location for VM Deployment VM Mobility Support 24-Hour Service Request Fulfillment 			
Gold	99.7%	 Includes Silver Infrastructure Services Storage mirroring 48-Hour Total Service Request Fulfillment Automated Restart on VM failure 			
Platinum	99.9%	 Includes Gold Infrastructure Services Storage replication across 2 locations 72-Hour Total Service Request Fulfillment 			

The Per VM Availability SLA applies to each individual VM for the tier which the customer has selected in the IBM Cloud Portal







Provided reports from the Web Portal

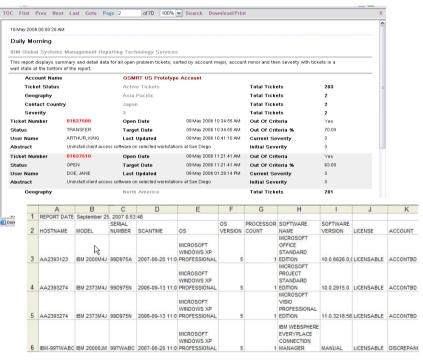
Service Management Data

- Incident Problem Reports summary and detail of customer submitted problem reports
- Change Reports summary and detail of customer initiated and IBM initiated changes to a virtual machine
- Service Activation performance of non-VM service activation

Virtual Machines

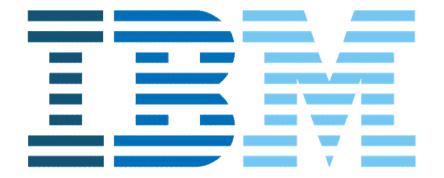
- Provisioning performance of VM provisioning
- Software inventory on a virtual machine
- Performance history of a virtual machine
- Usage itemized and detail information for all SCE+ services













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