

BT Cloud Compute

The power to build your own cloud solutions to serve your specific business needs



BT Cloud Compute is the next generation for On Demand Compute: a self-serve cloud service allowing you to request, deploy and manage your own public and private infrastructure, including virtual machines, networks and storage. You get the resources and expertise to quickly put in place a complete cloud solution to meet the day-to-day challenges of your business.

Key Benefits

- **Cost efficiency.** Pay only for what you use; your costs are aligned to your business needs, and you could reduce them by up to 40%
- **Faster, more agile.** Adapt your service and respond to new challenges in seconds; deploy new applications as you need them
- **Enterprise-class security.** Offers resilience and assured availability at 99.95%
- **Enhanced service levels.** Complete end-to-end solution that puts your needs first; it's about service, rather than reliance on hardware
- **Cloud flexibility and scalability.** Scale your public and private clouds to match your changing needs, and bring in new applications as you need them
- **Environmentally efficient.** Virtualisation technology means less space required, less power consumed and fewer emissions produced
- **Global service, delivered locally.** Global service using local infrastructure and support desks in key regions. You know where your data is hosted at all times and you can communicate and contract under the jurisdiction of the local law helping you meet compliance and assurance requirements

Cloud Compute offers you all the advantages and reassurances of one of the world's most extensively connected range of network cloud services. It can be scaled globally, yet remains directly focused on your local business requirements.

It can be integrated and managed across hybrid environments, addressing private and public needs. Cloud Compute also allows you to employ the specific advanced technology that best benefits your organisation, offering more operational efficiency and better value from your capital spend. It removes complexity and provides the highest levels of choice, flexibility and control, as well as enterprise-class security.

With the growing challenges and opportunities presented by the emergence of a global services market, Cloud Compute gives you the power to launch your own business-specific service quickly, reliably and cost effectively.

Cloud Compute service features

Architecture

Offering a range of availability zones, including public and private service offerings and geographical location.

- **Self-service:** Built and managed through the portal or API interface
- **Dashboard:** Provides an overview of the running virtual machines, resources used, and cost
- **Catalogue:** Used to select configurations and services
- **Automation:** Ability to dynamically provision virtual machines, make changes and close down virtual machines as required
- **Hardware:** Includes blades, storage, firewalls and load balancers, organised into different geographical availability zones

Networking

Network is dependent upon the availability zone being used. The majority of services will be using Internet and/or MPLS.

- **Internet access:** Fully resilient with pay as you use pricing
- **Load balancing:** Service supports creation of a load balanced pool of servers using (VIP) addresses – multiple algorithms available
- **Virtual LANs (vLANs):** By default, only one network (Primary Network) will be present which is firewalled; additional 'private' networks (virtual LANs) are supported

Server provisioning

You can select attributes for each virtual machine, modify some of the attributes, and copy attributes to create another virtual machine.

- **Hypervisor:** Service supports a number of different hypervisors
- **Operating system:** System options are presented as templates, displayed with a corresponding description
- **Customer images:** You can choose to upload your own operating system image. Any previous images uploaded can also be selected and found under 'My templates'
- **Virtual machine type:** Deploy virtual machines with a range of CPU and RAM options available hourly, monthly or annual
- **Storage (Disk attributes):** When building a virtual machine, you can add disks to support your applications and data
- **Snap shot backup:** Means you can take a point-in-time 'copy' of your entire virtual machine

Security

Security is set at the availability zone, with options dependent on the availability zone being used.

- **Virtual security application:** Allows you to create access control list or port forwarding rules

Common services

Includes Domain Name Server (DNS) and Network Time Protocol (NTP)

In-life management

- **Virtual machine management:** From the dashboard, you can select an individual virtual machine and stop, start, restart it and destroy
- **Remote management:** There are 3 methods of access, console using a browser, Virtual Private Network, or alternatively public access using common clients such as Remote Desktop Protocol, Secure Shell etc.

Why BT

- **Global scale, local focus.** Expanding our services across the world, yet providing local services to help you exploit new cloud services for your specific needs
- **Delivering professional services** to any size organisation. Managing thousands of small, medium and large enterprises, in both the private and public sectors
- **More investment.** More than \$1 billion of IT services acquisitions from 2005 to 2009; multi-million dollar investment in cloud services since launch in 2009
- **Innovation.** We have a track record of innovation. We've won 12 industry accolades for innovation in cloud services including winner of the Open Digital Ecosystem award at 2015 TM Forum Excellence Awards for the BT Compute Management System and winner of the 2014 Cloud Computing product of the year award for Cloud Compute by TMC.
- **Enterprise-class service.** Helping enterprise customers make the transition to cloud, including hosting for transition to cloud for Accelrys, Fat Face and the Genome Institute of Singapore.

BT Cloud Compute: key features

- **Service availability:** 99.95%, dynamic provisioning, 24/7 with local service desks
- **Access options:** Portal, multi-lingual and multi-currency, open API, role-based access
- **Architecture:** Multi-availability zones across public and private resources
- **Security:** Role-based access, virtual security appliance, port forwarding
- **Integration:** Active directory and LDAP supported
- **Network:** Load balanced, multi VLAN, WAN connectivity available, virtual routing
- **Commercial:** Flexible pricing per hour, per month, or per annum
- **OS supported:** Microsoft, Linux, customer generated templates, ISO images
- **Hypervisors supported:** VMware, Citrix



Offices worldwide

The services described in this publication are subject to availability and may be modified from time to time. Services and equipment are provided subject to the respective British Telecommunications plc standard conditions of contract. Nothing in this publication forms any part of any contract.

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