

BT Compute



BT Private Compute

Dedicated cloud infrastructure
hosting your IT



IT needs to help organisations be more agile, flexible and efficient, whilst reducing complexity and cost. However, as IT and communications networks evolve over time, often through piecemeal deployments, mergers and upgrades, they are rarely as efficient and flexible as they should be.

Huge demands are placed on networks by employees needing access to increased amounts of information and applications, wherever they are. Many organisations are not yet comfortable moving to a public cloud platform to achieve this, but there comes a point when their current platform is no longer capable of supporting the services needed.

Some try to consolidate and virtualise their technology, but find that legacy systems can only be upgraded so far. Rationalising parts of the network or overlaying virtualisation tools on existing systems can add to complexity, as processes are not updated at the same time. Infrastructure remains fragmented in separate silos, often operating well below potential, while still leaving IT teams to deal with multiple vendors.

Whether or not you have started down the virtualisation route, our portfolio of BT Private Compute services takes you on a logical journey that simplifies your IT onto a single platform. Featuring best-in-breed technologies from market leaders, our solution will reduce cost and management time. It lets you focus on the needs of your business and gives you the flexibility to take on the challenges of tomorrow.

Our portfolio of services

BT Private Compute

Lets you build private cloud services from proven modular templates enabling designs that can integrate with existing systems in a way that's specific to you. We can manage your Private Compute service in one of our shared facilities, giving you the added security that goes with infrastructure set aside exclusively for you.

BT's experts will supply, install, configure, and maintain the infrastructure service, leaving your IT team free to focus on innovations and applications to drive your business forward.

Now your organisation can truly realise the full benefits of virtualisation – more efficient use of server capacity and lower costs per application which can be assigned to each department.

By breaking the barriers between traditional IT silos, our solution enables rapid provisioning and gives access to service catalogues and meaningful performance metrics.

BT Private Compute on-premises

Delivered and installed to a data centre location of your choice, we provide cloud-ready equipment dedicated for your use only. Whilst providing a fast, cost efficient and simple entry point to private cloud computing, our solution also reduces your procurement cycle meaning you get the benefits faster. BT Private Compute on-premises simplifies your IT systems and infrastructure so you can reduce your costs and speed up the time to deploy new applications and services. A single solution from a single supplier, our service takes the best of breed and consolidates it down to a easy to manage set of technologies – consolidating networks, servers, storage and virtualisation into one scalable platform that you own.



BT Private Compute

BT Private Compute is part of a portfolio of award-winning services supported by industry-leading BT experts offering:

- **The ability to do more with less** – since consolidating and virtualising IT platforms frees up financial and management resources
- **Speed to market** – by cloud-enabling your IT platforms end users can design, build and manage their own projects improving speed to market and deliver benefits back to the business faste
- **Flexibility and scalability** – as computing power, network resources and data storage can be scaled by your IT department or the end users to match changes in their business needs
- **Latest technology** – BT has invested heavily in research and development, leaving customers to focus on core business
- **Reduced risk** – because one supplier on a single contract gives the simplicity of one point of contact, while deploying new applications becomes more predictable and straightforward
- **Lower total cost of ownership** – reducing complexity and management of IT infrastructure can help lower total cost of ownership by up to 40 per cent
- **IT agility** – cloud-enabling your IT infrastructure (private cloud) can save you time with new platforms built in hours rather than weeks enabling you to realise costs savings and revenue opportunities much quicker
- **Greener by design** – exploiting the latest technology means more environmental efficiency and a lower carbon footprint
- **Provided by BT** for use in your own data centre or as a fully managed service in a secure BT managed data centre with the ability to be fully implemented into a private cloud environment.

The BT Compute portfolio

BT offers the full range of data centre services, including Co-Location, Private Compute, Cloud Compute, Apps from BT and BT Compute Storage as part of a portfolio of products that enable you to take advantage of new technologies, driving efficiency improvements across your business to save money, improve service and manage risk.

Whether self-managed within your own data centre or BT managed in one of ours, we can help you on your journey to cloud and hybrid services. Our Advise Compute services provide you with the expertise, tools and knowledge to successfully deliver IT services and innovation within your organisation.

BT Private Compute is an enterprise class component of a range of BT Compute capabilities which offer the very latest in virtual computing solutions. This ensures an unparalleled breadth of services, from shared on demand through to private self-managed, locally hosted solutions.

We can even offer a hybrid mix of both our Cloud Compute and Private Compute services, giving you fast, flexible access to the latest data centre technology, with specially configured elements to suit your unique needs.



In the UK, Surrey benefits from a highly secure cloud-based data centre

As public sector reform continues to drive change and demand more efficiencies across all Government departments including public protection, one of the UK's leading Police forces has been weighing-up the benefits of adopting "cloud-based" data centre hosting services.

Surrey Police have already delivered substantial savings in the running of their ICT services but they realised that eventually they will face the "law of diminishing returns". They faced a future of having to deliver more efficiency savings whilst the demands for new technology continued to drive end-user demand ever higher. They needed to evolve to survive and keep pace with future technological changes.

BT was aware of these challenges and had developed a new secure data centre hosting service that addressed the key issues. Surrey Police were quick to see the benefits the solution would bring to its current ICT challenges. At the heart of BT's proposal was a "platform as a service" offering allowing the Force to create a new secure and virtual platform in BT's secure cloud.

At the heart of Surrey's requirements is the need to deliver their current hosting services more cheaply without compromising on security. BT's service addresses this by delivering a highly secure cloud-based solution encompassing 24x7 proactive service monitoring and round the clock protective monitoring creating a highly secure and auditable service platform.

“The lead time for creating a virtual machine means we're now able to do in **less than 24 hours, what used to take us six weeks.**”

Paul Brimacombe
Technical Services Manager
Surrey Police



An Olympic challenge

London2012.com page views were forecast to run into the billions, a level never before seen in previous events, rivalling the world's largest enterprise sites. As the best-in-class source of real time London 2012 information, the site needed to deliver high availability anywhere in the world, while maintaining the very toughest standards of protection against denial-of-service attacks and other security threats.

"We knew we would require substantial server infrastructure to cope with such high levels of traffic, although this would only be needed until the end of the Games," says Brian Cook, Head of Technology Service Delivery at the London Organising Committee of the Olympic and Paralympic Games (LOCOG).

The BT solution offered LOCOG the capacity it required without the need to invest in data centre infrastructure that would be redundant after the Games. The result was lower total cost of ownership and less environmental impact – the latest virtualisation advances reduced server requirements resulting in lower power consumption. "The BT infrastructure was robust and scalable," concludes Brian Cook. "What's more we delivered the project free of significant capital investment and without compromising our environmental and sustainability credentials."

Key facts and figures

- The London2012.com infrastructure was dimensioned to cope with **more than a billion** users, a scale that would usually require many more than two server sites to ensure high availability
- The London2012.com site was hosted at **two BT UK data centres**, on dedicated infrastructure set aside for exclusive use, based on an enterprise-class design
- London2012.com ultimately hosted more than **450 million** visits from **109 million** unique users, more than the official websites for the Vancouver Winter Games and the FIFA World Cup in 2010
- Overall the site enabled almost **40 billion** page views, at a peak rate of **55,000** views per second
- London 2012 was the most **digitally connected** Games ever and, by virtue of its high concentration of high-density wireless networks, London became the most connected Wi-Fi city in the world during the Games.

If you have any queries, or need more details on any aspect of BT Compute services, please visit:

<http://www.btireland.com>



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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Registered office: Grand Canal Plaza, Upper Grand Canal Street, Dublin 4
Phone +353 (0)1 4325000 Freephone 1800 924 924
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“London2012.com is critical to the success of the whole Games. It must deliver a consistent, quality user experience to a billion visitors worldwide – no matter what. The BT solution gives us reassurance that the site will cope with any eventuality – **it's robust, powerful and scalable.**”

Brian Cook,
Head of Technology Service Delivery, LOCOG

Why BT?

- IT to match your needs. We can deliver service at your location or from 48 BT data centres around the world. We can offer everything from secure co-location to managed hosting services as well as public, private and hybrid cloud services, or any combination you need
- A global leader in managed networked IT services, we serve the needs of over 6,500 large corporate and public sector customers in more than 170 countries worldwide
- Proven enterprise-class service. Professional services expertise and tools to help enterprise customers with everything from discovery and design to delivery of tailored solutions, with case studies including hosting the london2012.com website for the Olympics.
- Enterprise class service. We'll help you make the transition to cloud, with local service desks and the service level assurances and commercial framework you'd expect, offering resilience and 24/7 SLA-assured availability at 99.95%.

Find out more about BT Ireland

 www.btireland.com & bizblog.btireland.ie

 Freephone 1800 924 929

 business@btireland.ie