Data Centre Optimisation
Unlocking hidden potential

At Bell integration we can help you unlock existing data centre capacity. Our thorough approach guides you through the process from understanding your current capabilities to the design and build of a new optimised data centre infrastructure. You'll benefit from reduced IT OPEX and complexity, improved management and better control to meet and exceed compliance requirements.

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The challenge

Cloud computing isn't the panacea for all. For some organisations, modernising and optimising current IT systems is the most effective solution. Research by IT analysts reveals that most data centres have under-utilised servers and storage, and still offer unrealised opportunities to significantly reduce operating costs and power, as well as improving efficiency. Your current legacy applications and infrastructure may not be cloud aware or cloud ready but you'll need to exploit the latest and most suitable technology, such as Hyperconverged infrastructure (HCI) and private cloud to become optimised.

So how do you go about it? Once you've decided that data centre optimisation is the right option for part, or all of your business, there are still many more choices to make. Do you choose virtualisation, private cloud, automation and orchestration or software defined data centre (SDDC)? You'll need to create the right solution stack, working out the right reference architecture and choosing the right vendors and technology.

With so many decisions and implications, you need the best guidance – a deep understanding of your current infrastructure, assessment of the suitable technologies available and help with designing and building a new optimised data centre architecture.

Our solution

Bell Integration takes a thorough and holistic approach to data centre optimisation, from understanding your current infrastructure to planning and implementation to improve the effectiveness and efficiency of your data centre assets, unlocking existing data centre capacity and reducing IT OPEX and complexity.

Stage 1: Information gathering

Infrastructure technology and operational maturity assessment provides a high-level structured view of the maturity and effectiveness of the technology, service and operating model of the current infrastructure and associated environment. This enables the organisation to quickly determine where they are mature and where improvement and transformation would benefit the business.

Infrastructure and workload capacity assessment provides a structured methodology than reveals where organisations can take advantage of unused infrastructure capacity (whether compute, storage or network), or plan for infrastructure or workload consolidation through virtualisation, software defined data centres, cloud or other hosting service adoption or modernisation. This service identifies the benefits of adopting such consolidations through a discovery, capacity and usage assessment.

Infrastructure operations assessment enables organisations to determine where they can improve their operational efficiency for infrastructure administration, maintenance, troubleshooting and deployments and identifies the cost efficiencies of adopting new, improved or revised operating procedures.

Infrastructure environmental impact assessment provides organisations with an understanding of the environmental impact of their data centre infrastructure. Power consumption, cooling requirements and platform specifications will all be analysed in depth to identify the efficiency of current usage, demands and provision.

Additional TCO and ROI assessment is a bolt on option to enable organisations to understand their current cost of ownership and predicted future cost of any proposed data centre, hosting, infrastructure or service. This will determine the points at which the investment becomes either cost neutral or cost saving.

Stage 2: Planning

Infrastructure target architecture is a high level assessment of the most appropriate technology-based target infrastructure. Organisations can see where they can take advantage of various data centre technologies available to align with their strategies and see the benefits of adopting such technologies and supporting processes.

Infrastructure appliance capacity shows organisations where they can best take advantage of unused infrastructure appliance capacity of plan for appliance consolidation. This service identifies the benefits of adopting application consolidation, virtualisation or modernisation depending on the customer's unique situation and needs.

Infrastructure appliances can include all or certain specific components: firewall, virtual private network, load-balancer, malware protection and authentication. It excludes intrusion detection, network quality of service, backup and recovery and application platforms such as web/file caching, email or collaboration. Consolidation scenarios can include virtualisation (compute, storage and network) native platform (database servers-instances-DBs) and other data centre infrastructure components (SDDC).

Example: Application consolidation – when a virtual security appliance has capacity to perform firewall and VPN functionality

Working from questionnaires or initial discovery workshops, we gain a high-level understanding og the existing appliances. Using an infrastructure audit and performance tool we can understand the capacity and usage and a follow up workshop will validate the data provided, help us complete the questionnaire and add further context. Opportunities to leverage existing or additional virtual appliance technologies or capacity are evaluated and potential consolidation scenarios are created.

Software Defined Data Centre (SDDS) readiness assessment will quickly determine if the current infrastructure components can be transformed to a SDDC platform and identify the benefits of adopting such a platform and its supporting technologies.

Working from the output of the data centre optimisation / infrastructure and workload capacity assessment and infrastructure operations assessment we gain a high-level understanding of the existing service platforms, supported workloads, appliances and their usage. A follow-up workshop will validate the data provided and add further context to the information gathered in the discovery and analysis phase. Opportunities to transform the current virtualisation platform to an SDDC-ready platform are evaluated and a roadmap to an SDDC-compliant platform is created.

Stage 3: Implementation

Infrastructure designer service creates a foundation to design and operate core building blocks on any data centre infrastructure through validated architectures, standard operating frameworks and standard levels of service, compliance and cost. This service offers organisations the ability to deploy, transform or innovate a data centre environment for a people, process and technology perspective with the creation of a future state architecture and target operating model.

Infrastructure builder service implements the core building blocks of a date centre infrastructure design and standard operating model or framework (including VMware's virtualisation and data centre technology product suites. This service provides organisations with the ability to deploy, transform or innovate a data centre infrastructure environment.

Orchestration and automation overlay service delivers operational and functional management layers that include a service catalogue, workflows and policy definitions, enabling an operational management layer to be deployed quickly. It is designed to be fully extensible and scalable and support market-leading technology platforms.

Which vendors / technology do we deliver?

- Microsoft
- VMware
- Citrix
- Orchestration/automation
- Public and private cloud services
- Workload migration
- Networking

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**See how Bell Integration can help your business succeed.
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