

HCL



Re-shaping the manufacturing sector's journey to the cloud

In partnership with HCL and Microsoft

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Dawn of the new normal for the manufacturing sector

The manufacturing sector is a strong economic force in both advanced and developing economies, but remains at risk for disruption. Despite being a major contributor to the GDP, its constituents must face ongoing volatility in costs, policy decisions including compliance mandates, and consequences from the recent COVID-19 pandemic.

How can the manufacturing sector navigate uncertainty, increase operational flexibility for the future, respond, recover, and thrive in the wake of the recent COVID-19 pandemic?

Technology can enable recovery

Industry leaders are deploying proven technology to build agility into their business models. The HCL Microsoft Business Unit is strategically designed to create resilient enterprises and accelerate digital transformation by investing in offerings that will reduce time to market and increase productivity.

By partnering with HCL for data center migration services to Microsoft Azure, organizations can stand to gain from reduced IT costs and automated management processes. HCL professionals can help migrate or re-host your existing on-premises applications to the Infrastructure as a Service (IaaS) platform on the Azure platform. Client applications will have almost the same composition as before, but now will be deployed on Azure VMs, with no re-architecting/new code.

HCL's Application modernization and cloud migration solutions on Microsoft Azure

HCL has developed a holistic and proven accelerator to enable enterprises to realize the business benefits of digital transformation faster. HCL's Cloud Migration Assessment using HCL Intellectual Property (IP) – Digital Prizm (DPrizm) and Azure DevOps Assessment with Expedited Maturity Elevation leading to Zero touch Ecosystem (EAZe) accelerators—have helped our clients experience the benefits of HCL's Gold Standards and Microsoft services – best practices.

Quick migration and deployment using HCL's automated One Click Deployment model references the state-of-the-art tools and robust industrialized methodologies for mass migration to cloud platform, a very apt tool for challenging times, of COVID-19.

With a single click, HCL's One Click Foundation and Migration helps:



Migrate thousands of workloads to cloud platform in a phased approach



Automate deployment of landing zone configuration with competencies in DevOps, security, and migration



Implement cloud solution best practices like multi-account structure, security controls, self-service with guardrails, and scalability

HCL and Microsoft: Our capabilities

Key value propositions for HCL's Azure solution that can help address the manufacturing organizations' business needs during these challenging times.

Development and testing infrastructure

- Ideal for manufacturing organizations looking to develop and deploy newer applications or newer functionalities on their existing applications.
- HCL's offering on Azure General Purpose Virtual Machines provide balanced CPU-to-memory ratio for medium databases, and low-to-medium traffic web servers.



Graphic intensive manufacturing design workloads

- HCL's offering on Azure GPU optimizes virtual machines with single, multiple, or fractional GPUs and are the best proposition for compute-intensive, graphics-intensive, and visualization workloads.
- It helps rapidly iterate on product design to reduce time-to-market with scalable and highly secure on-demand infrastructure.



High performance computing for engineering simulations and analysis workloads

- HCL's offering around Azure H-series virtual machines is the best proposition to deliver high performance and scalability, with cost efficiency.
- HB-series virtual machines for computational fluid dynamics simulations with high memory bandwidth requirements.
- HC-series virtual machines for finite element analysis (FEA) requiring dense computations.



Windows Virtual Desktop (WVD), based on Azure solution

- With COVID-19 spreading and the lockdown of offices, services deliveries are disrupted and thus work from home (WFH) is the only solution for the enterprises.
- Focused on Windows Virtual Desktop (WVD), we help our clients with provisioning of cloud workspaces, with built-in necessary infrastructure and applications delivery with Office 365 / Microsoft 365, cloud mailboxes with voice integration, and chat functionalities to act as an extended office.



Backup and Disaster Recovery Infrastructure

- With HCL Azure Cloud proposition build around disaster recovery, clients can eliminate the hassle and cost of secondary datacenters and tap into nearly infinite capacity with our cloud-based backup and data recovery solutions.
- Fail over your apps. and the entire datacenter with automated recovery acts in a matter of hours, instead of weeks or months.



Solution Benefits

HCL cloud solution capabilities on Microsoft Azure drive business benefits that:

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- 1 Eliminate CAPEX by reducing the need for procuring new servers, storage, and other infrastructure and help delay CAPEX investment decisions at this challenging time.

 - 2 Provide a pay-as-you-go model that helps accelerate the pace of innovation while lowering product development costs with pay-as-you-go CPUs and GPUs.

 - 3 Reduce cost by building consistent environments for staging, testing, or QA while ensuring parity with production and DevOps adoption.

 - 4 Speed-up time-to-market by creating repeatable environments with fully managed infrastructure, networking, security etc. with simple configuration files and commands.

 - 5 Attain scalability and the benefits of deploying thousands of machines at scale, in hours.

 - 6 Enable fast and error-free deployment: HCL's pre-configured Factory Model saves on an average 25-30% effort and error and enables the error free adoption of Microsoft best practices and tools.

 - 7 Achieve flawless management with easy monitoring and management of cloud resources such as compute, storage, networks etc. with HCL's ElasticOps services.
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Why HCL?



With 35 years of legacy partnership with Microsoft, HCL is an Azure Expert MSP delivering end-to-end services to enterprises such as cloud consulting, migration, and operations.



To-date, we have over 150 clients with an established migration to Azure journey and have delivered more than 120k managed virtual machines on the Azure Cloud solution.



HCL is an Azure Gold Certified partner for cloud platform, productivity, and analytics.



Dedicated Cloud innovation labs/Center of excellence (CoE) with 3000+ Azure certified consultants across the globe.



We offer additional support and expertise including industry accelerators, IP's, tools, templates, and frameworks across cloud consulting, cloud assessment, migration, deployment, and support services.

Our Cloud Migration Consulting Service Offerings

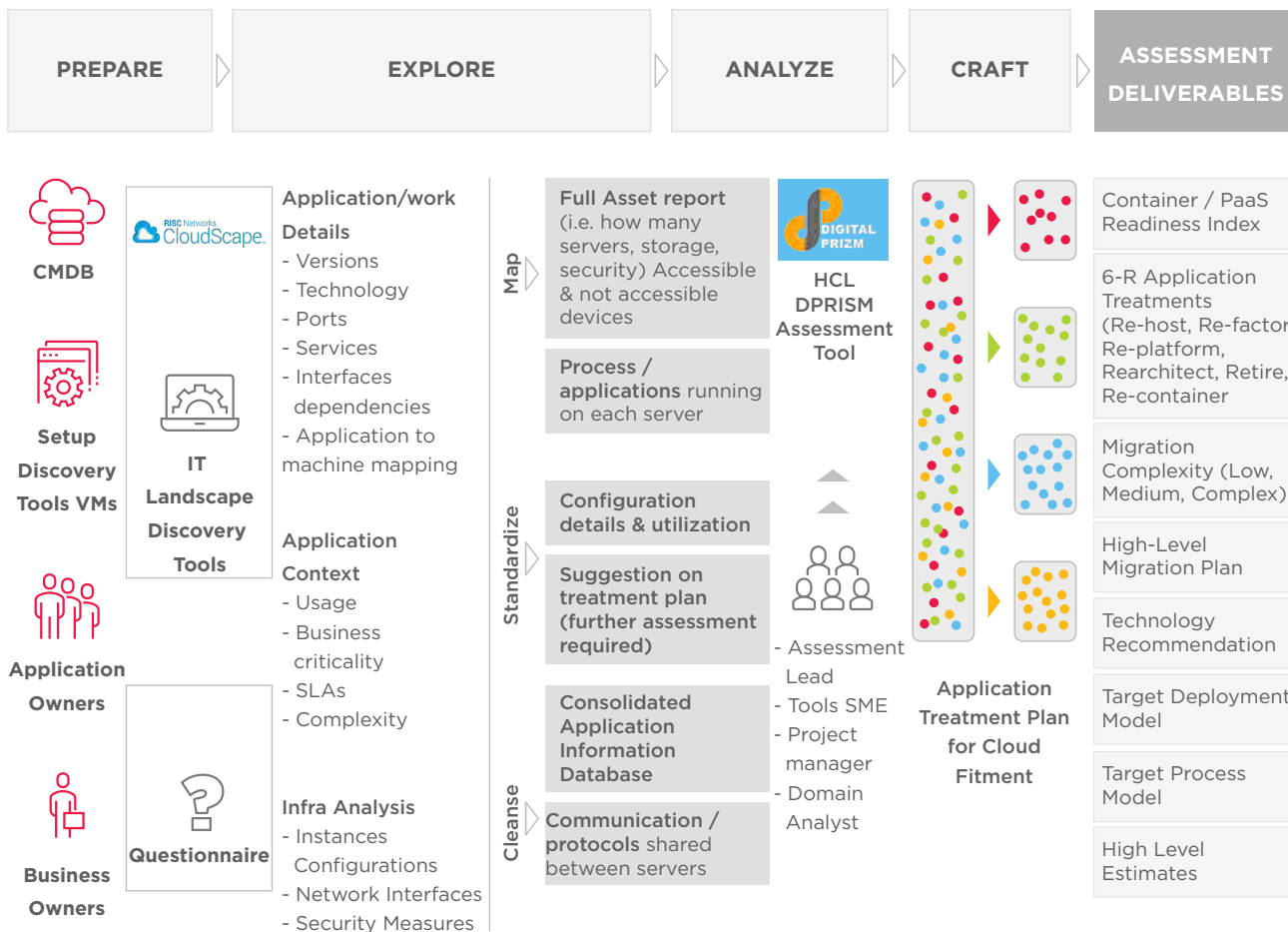
Services	Client Workshops	Cloud Assessment	Proof of Concept (PoC)
Purpose	An interactive engagement conducted in a customer's premises that can include training, briefings, cloud assessments or demos.	An evaluation of a customer's environment to determine applicability of a cloud migration solution and provide an estimate of cost and timeframes.	A limited-scope implementation to determine if a solution meets a customer's requirements with demo's built on the customer's data or environment.
Approx. Timelines	1-3 Weeks	1-2 Weeks	2-4 Weeks

HCL's Microsoft Azure Cloud Subscriptions

Cloud migration to Microsoft Azure provides host of VM options including but not limited to:

Burstable VMs	Compute Optimized	General Purpose	Memory Optimized	High Power Computing
Most economical VMs for workloads that normally don't use a lot of CPU, but occasionally burst for higher workloads.	Newest compute-optimized virtual machines deliver the latest CPU for compute power.	Balanced CPU and memory, appropriate for a variety of workloads.	High memory-to-core ratio virtual machines, great for relational database servers, caches, and in-memory analytics.	Best proposition to deliver high performance and scalability, with cost efficiency.
1 vCPU(s) 1 GiB RAM	2 vCPU(s) 4 GiB RAM	2 vCPU(s) 8 GiB RAM	2 vCPU(s) 16 GiB RAM	Custom build based on requirements

Migration Assessment – HCL Digital Prizm Assessment Tool



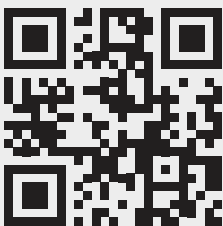
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To know more about the HCL Microsoft Business Unit go to:
<https://www.hcltech.com/microsoft>



HCL Technologies (HCL) empowers global enterprises with technology for the next decade today. HCL's Mode 1-2-3 strategy, through its deep-domain industry expertise, customer-centricity and entrepreneurial culture of ideapreneurship™ enables businesses to transform into next-gen enterprises.

HCL offers its services and products through three lines of business - IT and Business Services (ITBS), Engineering and R&D Services (ERS), and Products & Platforms (P&P). ITBS enables global enterprises to transform their businesses through offerings in areas of Applications, Infrastructure, Digital Process Operations, and next generation digital transformation solutions. ERS offers engineering services and solutions in all aspects of product development and platform engineering while under P&P. HCL provides modernized software products to global clients for their technology and industry specific requirements. Through its cutting-edge co-innovation labs, global delivery capabilities, and broad global network, HCL delivers holistic services in various industry verticals, categorized under Financial Services, Manufacturing, Technology & Services, Telecom & Media, Retail & CPG, Life Sciences, and Healthcare and Public Services.



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As a leading global technology company, HCL takes pride in its diversity, social responsibility, sustainability, and education initiatives. As of 12 months ending on March 31, 2020, HCL has a consolidated revenue of US\$ 9.94 billion and its 150,000+ ideapreneurs operate out of 46 countries. For more information, visit www.hcltech.com