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TechM HYBRID BLAZETECH Unlocking the NXT Evolution of Hybrid Cloud Transformation

Abstract

Intel and TechM collaborates to create a joint solution offering called - HYBRID BLAZETECH which is a multi-hybrid cloud and edge integrated platform needed by a broad suite of customers by integrating the latest Intel hardware and software offering to address the modern digital transformation strategy. The solution adopts a specialized strategy tailored to specific industries, utilizing a carefully curated collection of solution accelerators. This empowers businesses to unlock enhanced business benefits swiftly and effectively, while simultaneously promoting simplicity, sustainability, and cost efficiency. Built on an Al-ready infrastructure which offers broad ecosystem support ensuring seamless operations.

Security remains paramount for the platform, with complete data protection and advanced cyber resiliency.

TechM and Intel are working together on various technology roadmaps, where TechM will utilize Intel's broad product portfolio, and Intel will draw on TechM's experience in application and enterprise architecture.

Introduction

Modernization Journey to TechM HYBRID BLAZETECH

With TechM's deep domain knowledge and services and Intel's technologies like SDDC-private and hybrid cloud benchmarked reference architecture for dedicated workloads and automation scripts/playbooks, organizations have the building blocks to deploy transformational solutions more quickly and effectively. Intel DC transformation tools like Xeon Advisor/Xeon transition guide/workload advocacy tools helps us for faster and more successful deployment.

Moreover, by using Intel's private cloud / hybrid cloud transformation tools such as Intel DCM organizations can speed up the transformational impact and unlock more value. Intel DCM can help reduce data centre total cost of ownership (TCO) by improving asset management, increasing reliability, simplifying maintenance, optimizing efficiency, maximizing density, and reducing downtime.

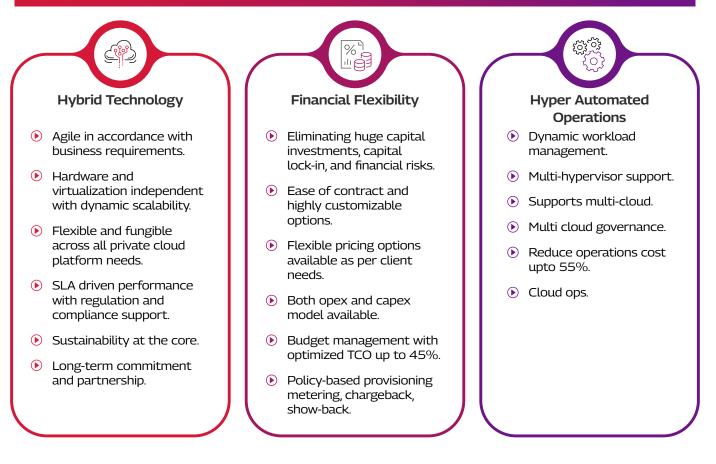
TechM leverages Intel reference architectures and migration advisory to reinforce hyperscale cloud capabilities and hybrid cloud migration. These solutions help optimize costs and time to results for critical workloads, including VMware and SAP.

Our Solution

Tech Mahindra recognizes the importance of running business workload from where it really matters to meet the regulatory, compliance, data security, and sovereignty with strong automation and process framework.

We have developed hybrid architecture offerings that help reduce the total cost of ownership (TCO) and enhance operational excellence for our clients. Tech Mahindra also offers various business strategy models such as pay-per-use models, helping enterprises move away from capex to opex model.

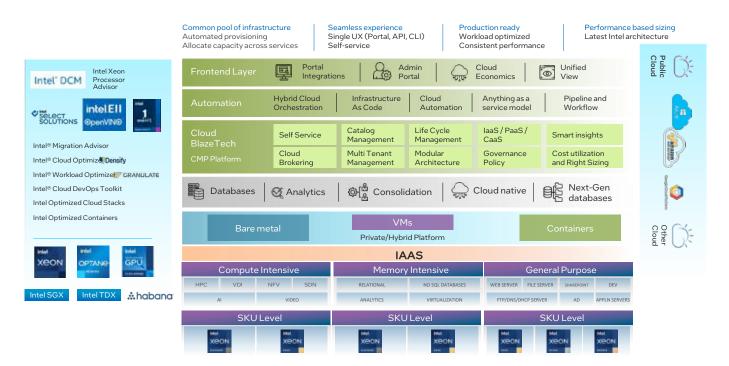
Why Hybrid BlazeTech?



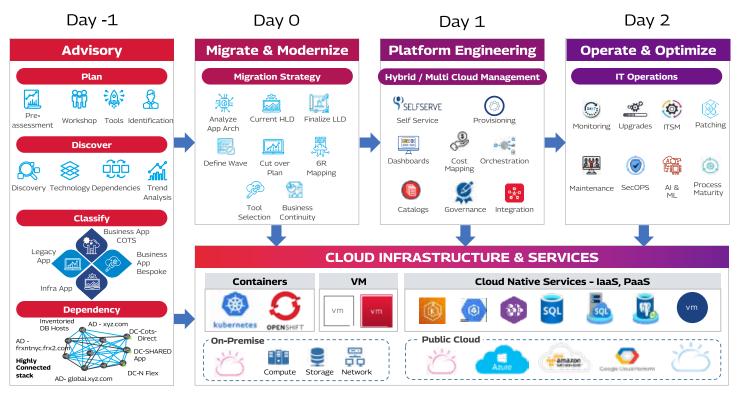
HBT Solution Blueprint

Customer data is very critical be it in web, app, or database environments, hosted on-premises, or through private / third-party public clouds. But the question is: how do we manage the data?

Tech Mahindra's HYBRID BLAZETECH is the answer. Our solution comprises cutting edge technologies curated for these exact customer needs. It is a holistic framework based on validated reference architecture and blueprints completely designed, deployed, migrated, and managed by Tech Mahindra.



HYBRID BLAZETECH Tech Day -1, 0, 1, and 2 Mode of Deployment:



Cloud Blaze Platform (CBT)

Cloud BlazeTech is a differentiating IP of Tech Mahindra powered by Intel, which provides a unified cloud management platform to deliver an end-to-end cloud solution for customers, from consulting and defining the cloud roadmap, to setting up, managing, and automating their future hybrid Integrated cloud environment, it offers everything you need.

Stage 1 - Advisory

In Stage 1 Intel and Tech Mahindra will evaluate the client's existing environment and develop a cloud roadmap. Intel CSA and Tech Mahindra customer engineering team will then collaborate to:

- Align customers' business goals with their cloud outcomes
- Provide workload profiling and optimization recommendations
- Offer trusted customer advisory services
- BOM optimization
- Refresh recommendations
- н. Advocacy for the 6 'R' strategy

Stage 2 - Migrate and Modernize

Intel and Tech Mahindra will expedite the migration and modernization process in Stage 2. Using a scientific, ML-based approach, Intel and Tech Mahindra will work together to reduce cloud expenses by 30 to > 60% by utilizing:



Cloud native tools used to accelerate migration and modernization also include

Stage 3 - Platform Engineering

Dr Migrate

Intel CSA Consulting

Stage 4 - Operate and Optimize

Stage 4 encompasses resource optimization powered by Intel tools and Tech Mahindra engineering activities.

Resource Optimization

Terraform HashiCorp : Set of optimized terraform scripts which can be readily adopted

O Hub (Optimization Hub): A centralized repository for readily available recipes

Benchmarking : Measure performance and price factors of silicon performance

GRANULATE : Runtime optimization tool for instance optimization

Optimized libraries to boost AI/ML workloads on cloud

Optimized Cloud Recipe : Provides tuning of workload parameters to get max performance

Intel CSA Consulting : Make informed decisions by selecting the appropriate SKUs

leadership as a system integrator, expedites the achievement of Cloud FinOps goals in Stage 3. Workload Benchmarking Performance Profiling Optimize performance and system configuration, enabling comparisons Reduce time required for baseline performance analysis of open-source across various generations and competitive architectures. workloads running on public cloud instances Gen to Gen srv-info Application-specific EMON Intel Telemetry Collector Optimized WLs g:Profiler Custom VT.

Intel's expertise in platform engineering, combined with Tech Mahindra's



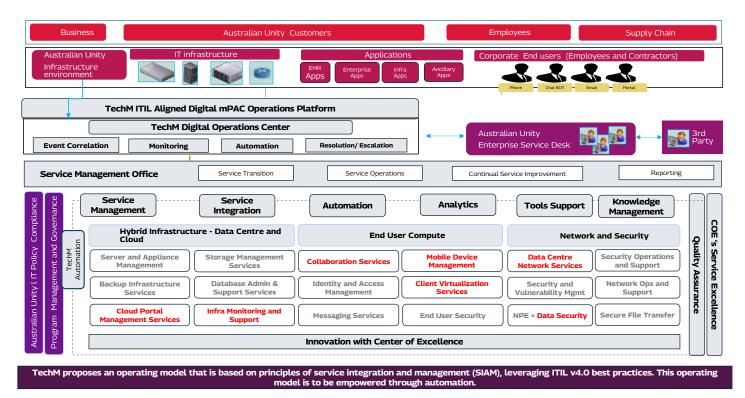


Benefits



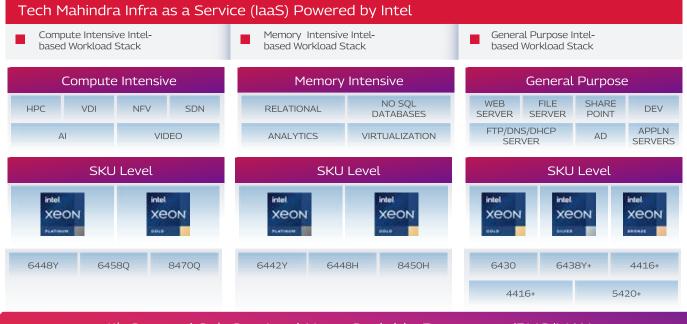
Our Integrated Operating Model

TechM proposes an operating model that is based on principles of service integration and management (SIAM), leveraging ITIL v4.0 best practices. This operating model is to be empowered through automation.



Intelligence With Intel Inside

The Intel Xeon processor is and remains the foundation of modern digital transformation architecture, accelerated by the Most built-in accelerators for any CPU in the market, with hardware enhanced security. Flexibility with 1s to 8s scalability to meet individual customer needs. Intel platform is the only CPU to offer support for both rack and blade designs and is the only platform certified for running SAP Hana workloads.



4th Gen and 3rd Gen Intel Xeon Scalable Processors/PVC/MAX

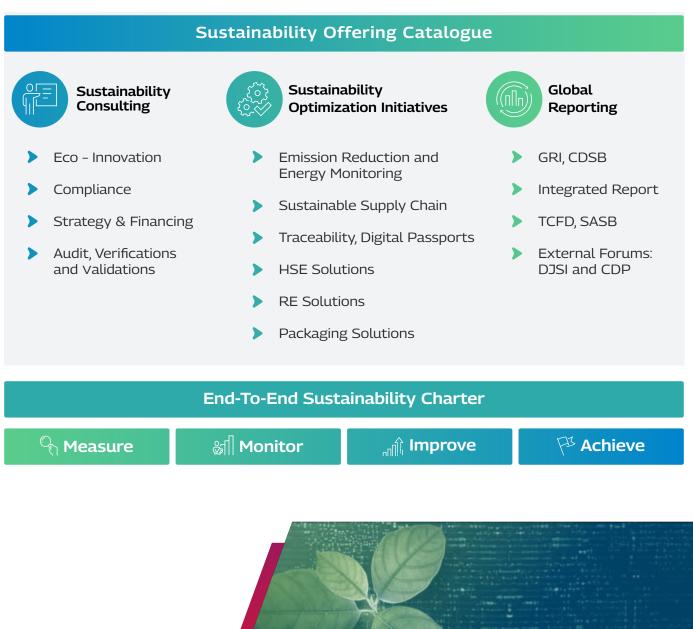
Intel Xeons based on Sapphire Rapids offer 53% general purpose performance gains along with up to 10x increase in AI workload performance with built-in accelerators and they also enable 3x better efficiency (perf/watt) with built in accelerators to drive a sustainable datacenter for enterprises to meet their compliance and emission goals.

Xeon stands alone, but with the addition of the new max series Intel changed the game. Delivering breakthrough memory bandwidth and performance for HPC and AI. Intel offers the biggest platform transition in years with SPR releasing new connectivity, I/O, and memory technologies: DDR5, PCIe Gen 5, and CXL 1.1

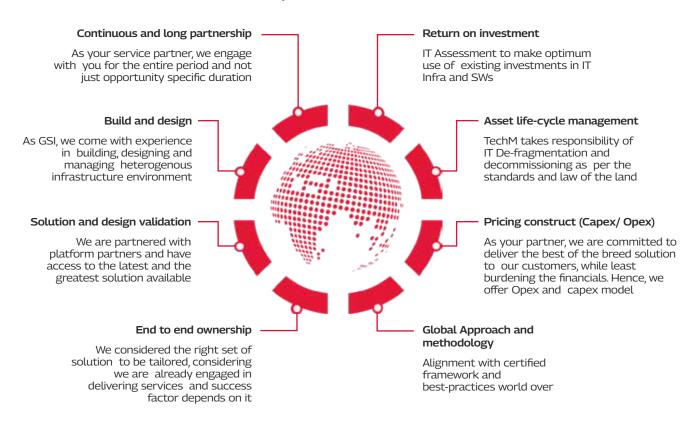
Our Joint Sustainability Offerings

Tech Mahindra is an end-to-end provider of sustainability services enabling organizations to measure, monitor and improve sustainability impacts. Tech Mahindra is a company with purpose for sustainability; undertaking sustainability as cause to spread across our customers, and society.

TechM's strategy and goals for sustainability is strengthened through this technology partnership by leveraging Intel's responsible, inclusive, and sustainable to enable (RISE) strategy and goals which include achieving net-zero greenhouse gas emissions in global operations by 2040. This goal is requiring Intel to apply breakthrough solutions and processes throughout the organization, including data centers.



The NXT.NOW[™] Advantage



Why Tech Mahindra

For further information, please reach out to CISalliances@techmahindra.com



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