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The 4 advantages of choosing Intel® Xeon® Scalable processors

Enterprise cloud architectures span multiple vendors and clouds—and integrate with a wide range of edge devices. This presents new challenges of workload placement and migration across an increasingly distributed multicloud infrastructure.

More companies are using Intel Xeon-powered technologies for consistent performance across multiple cloud service providers (CSPs). Here are four advantages to choosing Intel Xeon for any cloud computing need.

01

A flexible ecosystem for migration and acceleration

Most enterprise applications and open-source projects have been developed for Intel architecture. Consider that Intel has been a leading Linux Kernel contributor for the last decade. Intel also enjoys two decades of global open-source experience and is active in more than 650 open-source projects, including KVM, Kubernetes and TensorFlow.[1] By investing in Intel cloud infrastructure, companies can expect seamless enterprise workload migration within and across cloud service providers as well as on premises.

02

Streamlined manageability tools

IT teams today require simple tools. Maintaining two sets of management tools, one devoted to cloud and the other for on-premises workloads, could prove to be too time-consuming and complex. Popular hybrid cloud stacks like AWS Outposts, Azure Stack, Google Cloud's Anthos and VMware Cloud are optimized for Intel architecture. These stacks provide intuitive management capabilities that can lower cloud adoption barriers.

Intel processors feature built-in telemetry that help companies achieve closed-loop automation to orchestrate containers and streamline root-cause analysis. For example, node-level telemetry can identify workloads that do not have enough cache or memory, while cluster-level telemetry can help optimize placement decisions, scaling and life cycle management.

03

Half the cores, equal the performance

Instance cost isn't the only factor that affects true cloud infrastructure cost. For example, many independent software vendors (ISVs) charge per core. Choosing a server node that has fewer cores but provides similar performance to a higher core-count node can lower software licensing costs. Intel® Server Platforms provide outstanding virtual machine (VM) density, which means you can do more with less. Besides core count, other aspects of total costs to consider include migration ease, compatibility and vendor lock-in risks.

Intel also offers companies a variety of cloud software tools, including Intel® Workload Optimizer, Intel® Cloud Optimizer and Intel® Migration Advisor. These tools enable thorough evaluation, analysis and performance enhancement for a broad spectrum of cloud workloads. Most notably, they help optimize performance and reduce cost.

04

Battle-tested and trusted by the largest corporations

Intel technology is the most trusted across all major CSPs. This is why top ISVs, like Oracle, SAP and VMware, certify their cloud environments only or primarily on Intel.[2]

Through long-standing relationships with top ISVs, original equipment manufacturers (OEMs) and CSPs, Intel closely collaborates with the cloud ecosystem. This includes working closely with CSPs to develop purpose-built instances, such as Microsoft Azure DCsv2 Virtual Machines, designed to better support demanding tasks and workloads.

Every application and workload have unique cloud infrastructure requirements. Intel technology solutions are solving real pain points and business challenges in every setting: on premises, through communication networks, at the edge and in the public cloud.

[1],[2] "Top Benefits of Intel® Technology in the Cloud," https://www.intel.com/content/www/us/en/cloud-computing/top-reasons-for-cloud-guide.html