Expanding Opportunities at the Edge With Private Cloud

The edge has emerged as an essential execution venue for industrial digital workloads

Edge infrastructure delivers several advantages...



Enhanced application performance



Security/data sovereignty



Recognition of unique operational venues and requirements

Support for low-latency applications

...that map directly to what enterprises say they consider most important when choosing a workload execution venue.



Cost of supporting infrastructure

44%

Availability of supporting infrastructure

40%

42%

Ability to provide physical, digital security to location

Data sovereignty, ability/legality to house or move data from a venue

28%

Latency and/or performance considerations

27%

Resiliency of available infrastructure

More enterprises are adopting edge infrastructure for digital workloads, including enterprise IoT use cases.



of organizations are

building edge compute capabilities in 2021



is used at the edge (ie, outside of core data centers)



say that location

has a 'major impact' on IoT success

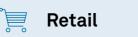
Many industries benefit greatly from workloads at the edge that require the high-performance, ultra-low-latency the edge can deliver



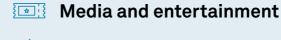
Manufacturing and logistics

Financial services/retail banking





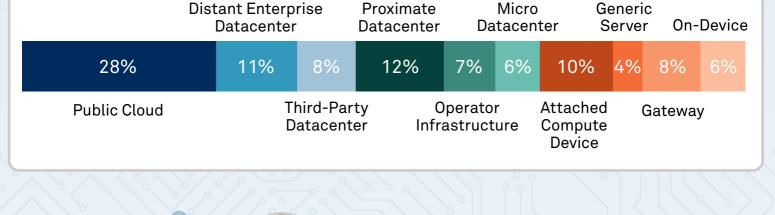
Gaming

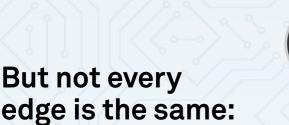


Technology

requirements, we expect 53% of all IoT workloads to be executed in an edge/near-edge venue by 2022. **CORE 47%** -NEAR-EDGE 25%— — EDGE 28% ·

Driven by industry- and application-specific





On-prem edge Managed, but requires on-site IT

On-prem edge **Unmanaged OT**

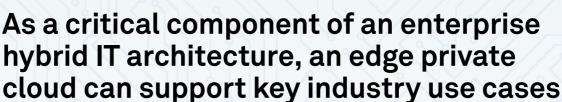
But not every



Public cloud 'pretending' to be an edge



An edge private cloud



Technical

to deliver unique advantages, including:

Orchestrated with other enterprise hybrid

(both on-prem and cloud) infrastructure

Rapid time-to-deploy Nearby compute + on-net access Secure, modern and IT-managed Distributed business process operations

Delivered and priced on demand Achievement of business-critical as a service digital outcomes

Greater operational control

Business

Mission-critical app/use case performance

78% of organizations have or plan to have hybrid IT architecture in place in 2021

Sources: 451 Research's Voice of the Enterprise: Internet of Things, Workloads and Key Projects 2020 and 2021



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