

Lumen + Azure Local

When Azure Local is deployed on Lumen's Edge Bare Metal servers, it enables Azure customers to unlock near real-time, data-intensive, and security-sensitive use cases. The result is the ability to leverage the power of Azure-based applications wherever and whenever needed.

Benefits of Lumen + Azure Local

Azure & Cloud-native Services Anywhere

Available: Run Azure or cloud-native services (e.g., Azure VMs, Amazon Kubernetes Services) for on-premise hardware or Lumen's Edge PoPs deployed with Azure Local - just as you would in an instance of Azure

Flexible AI Ecosystem: Run up-the-stack ISV applications built on Azure in Lumen's Edge Bare Metal servers or on-premise hardware that Azure Local is deployed on

Unified Management: Manage, monitor, enforce policy, and secure Lumen Edge Bare Metal Servers and on-premise hardware that Azure Local is deployed on via Azure Arc

Built for Compliance: Workloads stay local, enabling customers to run Azure applications on sensitive-data

Resiliency: Local zones (Lumen Edge and/or on-premise hardware) run independently from central Azure regions, supporting business continuity and disaster recovery scenarios

Overview

Lumen + Azure Local empowers enterprises to manage distributed compute resources seamlessly across premises, edge, and cloud environments, enabling near real-time, security-sensitive, and cost-prohibitive use cases.

Common use cases

Built for near real-time and compliant Azure applications

- Unlock robotics in a warehouse, leveraging AI models deployed on Azure Local hosted on Lumen's Edge Bare Metal to drive efficiency in warehouse operations
- Deploy Azure applications in-region via Lumen's Edge Bare Metal servers, Lumen's private network connections, and Azure Local to support compliance and regulatory requirements

Disaster recovery

- Build fully redundant Azure operations into Lumen's Edge facilities in-region, allowing seamless rollover in the event of a business continuity event

Features

Better together: the Lumen + Azure Local joint solution unlocks Azure applications for enterprises.

The Lumen network and edge solutions offer:

- **Nationwide Edge PoPs** provide low-latency compute to 97% of U.S. population:
 - 60+ edge nodes.
 - Serve 97% of the U.S. Population with <5ms of latency
- **Zero egress fees**
- **Expansive network reach** enables private connections between all locations - meeting compliance and regulatory requirements
- **Robust fiber backbone** for maximum speed and minimal loss (25% less optical loss than competitors) between the premise, the edge, and the cloud between all locations

Azure Offers:

- **Azure services at the edge for on-premise** for near real-time responsiveness and intelligent customer interactions.
- **Centralized management** through Azure Arc streamline operations and ensures compliance.
- **Access to the Azure ISV ecosystem** to unlock business outcomes

Technical Specifications

Features

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Azure Local on Lumen Edge

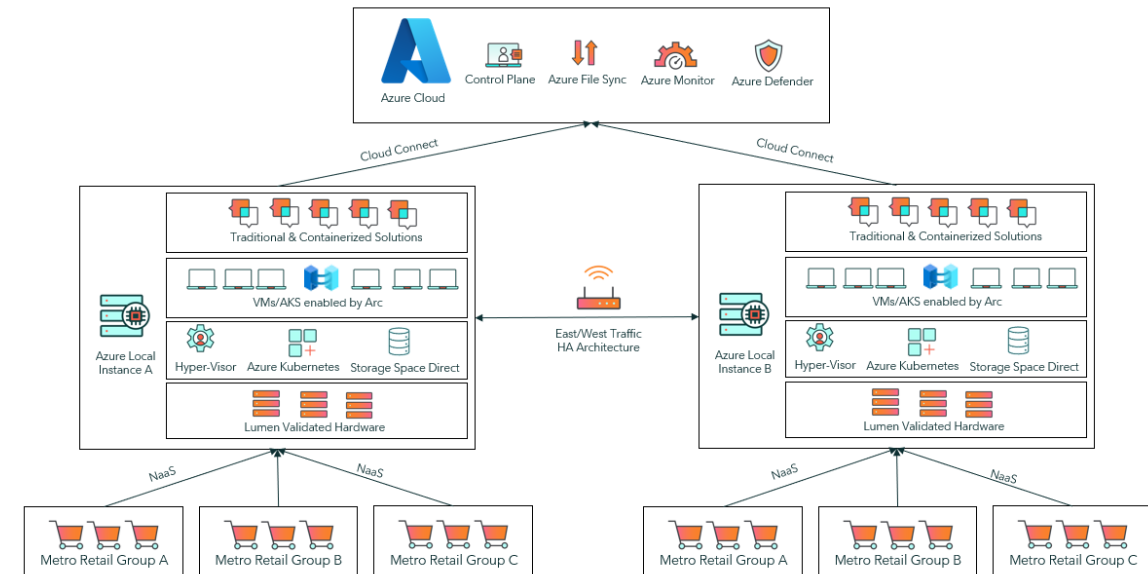


Figure 1: The Lumen + Azure Local unlocks Azure applications - anywhere

Why Lumen?

With a comprehensive portfolio, Lumen can help your business deliver high-quality connectivity, minimize costs and complexity, and enhance your security posture. Rely on the extensive and deeply peered Lumen global network, Black Lotus Labs' threat intelligence, and our team of experts to help deploy and manage the solution