

EDGE CLOUD

EXTENDING THE CLOUD TO THE MISSION

Booz Allen's edge cloud solutions extend mission-enhancing cloud capabilities to the distributed and disconnected edge. This new paradigm means faster decentralized decision making for warfighters, first responders, medical professionals, health and safety inspectors, law enforcement, and space researchers. Fueled by exponential growth in sensor-generated data and catalyzed by the expansion of 5G and low-earth-orbit satellite communications, edge cloud solutions are here to transform the mission today.

EDGE USE CASES

Achieving mission transformation requires creating value at the intersection of mission and technology. Booz Allen combines deep mission expertise with strong relationships with the startup and vendor ecosystem to integrate solutions that provide Zero Trust Security and solve mission challenges in low-latency, high-bandwidth, and disconnected use cases. Leveraging Booz Allen's multi-vendor solutions Edge Cloud Lab, we rapidly develop, test, and deliver mission-grade and field-ready innovative edge cloud solutions for a wide range of civilian, industrial, defense, and intelligence mission operations.



ISR at the Tactical Edge

Mobile and forward-deployed forces rely on accurate intelligence, surveillance, and reconnaissance (ISR) for decision making. When communications are reliable, edge cloud solutions federate with nearby and continental U.S. data systems. If communications are unreliable or non-existent, then scalable and reliable edge cloud solutions are ready to receive, process, and disseminate intelligence when and where it is needed.



Space Exploration

The rapid rise of commercial, civilian, military, and intelligence space assets far exceeds the communications capacity between orbit and ground stations. Edge cloud deployed in orbit enables security operators to perform real-time analysis of collected data or researchers to optimize the dissemination of high-value data over constrained communications channels.



Warfighter Readiness

The mobility of edge cloud with powerful graphics processing units (GPUs) for remote rendering combined with 5G networks enable high throughput and low latency solutions to enhance warfighter readiness. From telemedicine, training, monitoring of physiological and cognitive load, and maintenance support, edge cloud delivers timely and immersive solutions to our warfighters whenever and wherever needed.



DevOps to Edge

Mission-critical operations at the edge can't afford to be encumbered by IT bugs and labor-intensive processes. Booz Allen reliably and rapidly delivers Kubernetes-based mission solutions to the edge with DevOps principles adapted to harsh environments that work whether connected or disconnected.



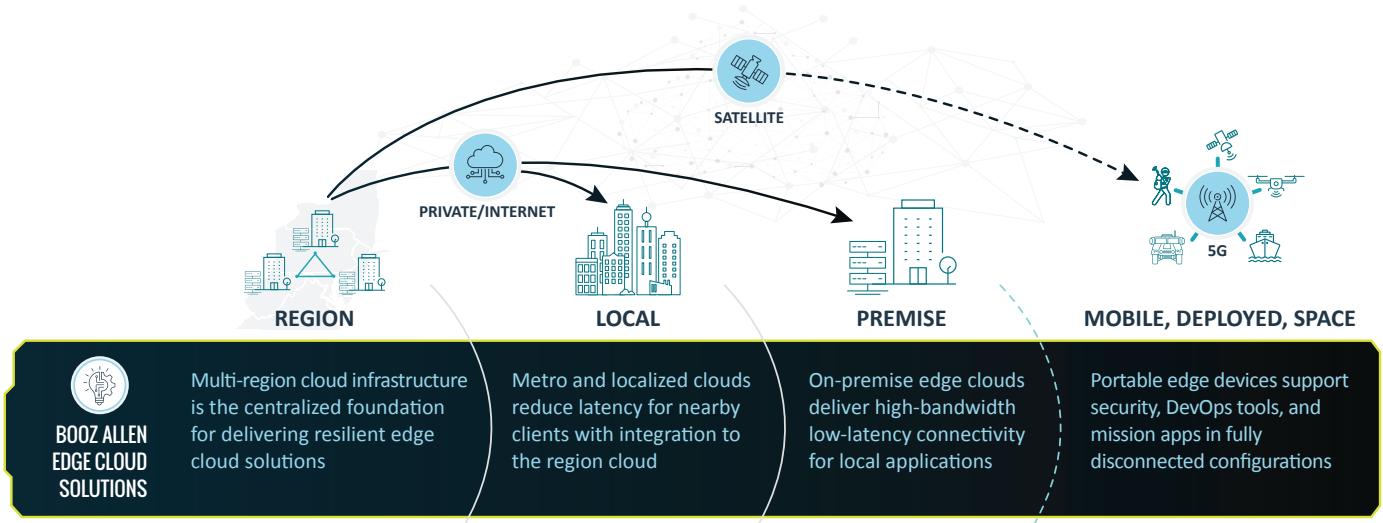
Mission Resilience

Mission and business critical applications in the cloud may require sustained or failover capabilities on premises. Edge Cloud distributes low-latency and redundant cloud capacity locally to continue business and mission operations when communications and regional services fail.



Edge AI

Distributed, piloted, remotely operated, and autonomous sensors are contributing to explosive growth in data generated at the edge. Artificial intelligence (AI) inference models deployed and optimized at the edge can operate more efficiently by offloading computationally complex tasks to nearby edge cloud solutions to extend the distance and duration of missions while achieving results faster.



The power of edge cloud is transforming the modern mission with consistent cloud services, security, and application programming interfaces (APIs) across the entire cloud continuum. Instead of relying on connectivity or waiting for information from the operations center, it enables rapid access to data far beyond the centralized or connected IT network. Processing can happen at the point of data collection in the moments that matter most, while leveraging the same applications and tools already in place in enterprise clouds.

OUR COMPETITIVE EDGE

Booz Allen works at the intersection of mission and technology, combining advanced technical resources and mission expertise to solve complex challenges securely, reliably, and efficiently.

Edge Cloud Lab: Booz Allen's Edge Cloud Lab at our headquarters in McLean, Virginia offers cutting-edge capabilities for rapid prototyping and demonstration of multi-vendor solutions prior to fielding in forward-deployed and classified environments. With secure terrestrial and satellite connectivity to our carrier-grade 5G Lab, XR Lab, AI Systems Performance Lab, and The Helix interactive showcase in Washington, DC, our edge cloud investment capabilities that power innovative solutions for our clients are unmatched.

Technology Partnerships:

Our partnerships with technology vendors are key to our success as an edge cloud systems integrator. In addition to long and collaborative partnerships with the leading cloud providers including Amazon Web Services (AWS), Microsoft, and Google Cloud—we are developing solutions with innovative vendors and start-ups with relevant capabilities in security, Edge AI, Compute, and Geospatial applications to expand at the edge without compromising security. With these partnerships, we can rapidly validate requirements, test, and integrate innovative tactical edge capabilities to deliver Booz Allen's civilian, military, and intelligence solutions at the edge.

Mission Expertise: Our engineers, scientists, and technologists are embedded with our clients in their missions, often with decades of experience serving in uniform or as a civilian prior to joining Booz Allen. Our passionate service to embrace the mission means our client's success is our success. Our edge cloud solutions are designed first and foremost with the mission in mind, leading to a proof of concept, prototype, and fieldable solution whether those missions are in hostile territory, afloat, airborne, supporting our mission partners, or in space.

About Booz Allen

For more than 100 years, military, government, and business leaders have turned to Booz Allen Hamilton to solve their most complex problems. As a consulting firm with experts in analytics, digital solutions, engineering, and cyber, we help organizations transform. We are a key partner on some of the most innovative programs for governments worldwide and trusted by their most sensitive agencies. We work shoulder to shoulder with clients, using a mission-first approach to choose the right strategy and technology to help them realize their vision.

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