

Sekuro Zero Trust Networking



Benefits Summary



Enhanced Security and Compliance



Increased Scalability



Automation and Efficiency



Optimized Resource Management

About Sekuro Trust

Sekuro Zero Trust Networking is a service provider to the United States federal government with large contracts to a variety of agencies. As a prime contractor to the Centers for Medicare and Medicaid Services (CMS) for the five-year, \$6B value eligibility support program, the client employs a fully remote workforce of approximately 2,000 people, operating a secure call center to assist citizens with enrollment into the Affordable Care Act health insurance marketplace.

Industry

Government Contracting, Healthcare Services

Location

United States

Featured Services

AWS AppStream 2.0, Zscaler Zero Trust Exchange, Amazon Connect, AWS IAM, Virtual Private Cloud

CHALLENGE

Although the client took the decision to move to a hybrid workforce leveraging desktop-as-a-service (DaaS) in 2019, COVID-19 brought about a change in plans to take the workforce fully remote permanently, and these new plans were accelerated. This presented three unique challenges:

- As a contractor to the federal government, standard government cybersecurity standards needed to be met.
- Working with the Health Insurance Portability and Accountability Act of 1996 (HIPAA) data of citizens required that additional security measures be taken to protect Personally Identifiable Information and Personal Health Information (PII/PHI).
- The ability to securely operate a call center with remote operators was paramount.

Had these challenges not been addressed, the client ran the risk of losing billions of dollars for not meeting contractual obligations, and insufficiently protected PII/PHI could be lost, leaked, or stolen by bad actors, which would cause a loss of the client's reputation and impact the lives of countless American citizens.



SOLUTION

nClouds' Solution for Astra

nClouds and teamed partners delivered to the client a multitier solution comprised of the following:

- Virtual air gaps to segregate the processing of PII/PHI from regular business data in different virtual desktop environments
- Zero Trust Network Access (ZTNA) framework to connect users to applications one-to-one rather than user-to-network or network-to-network
- Migrating workloads from legacy data centers to AWS following the Well-Architected Framework, focused on enabling ZTNA

nClouds' Solution for Astra

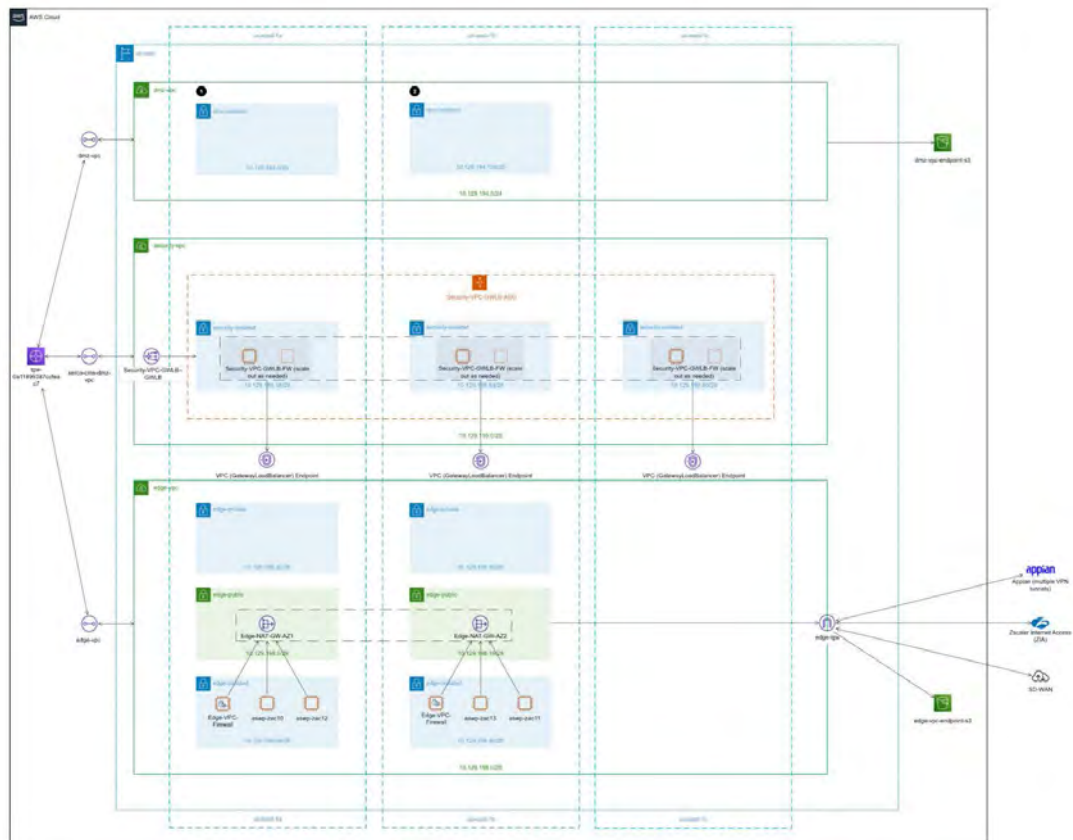
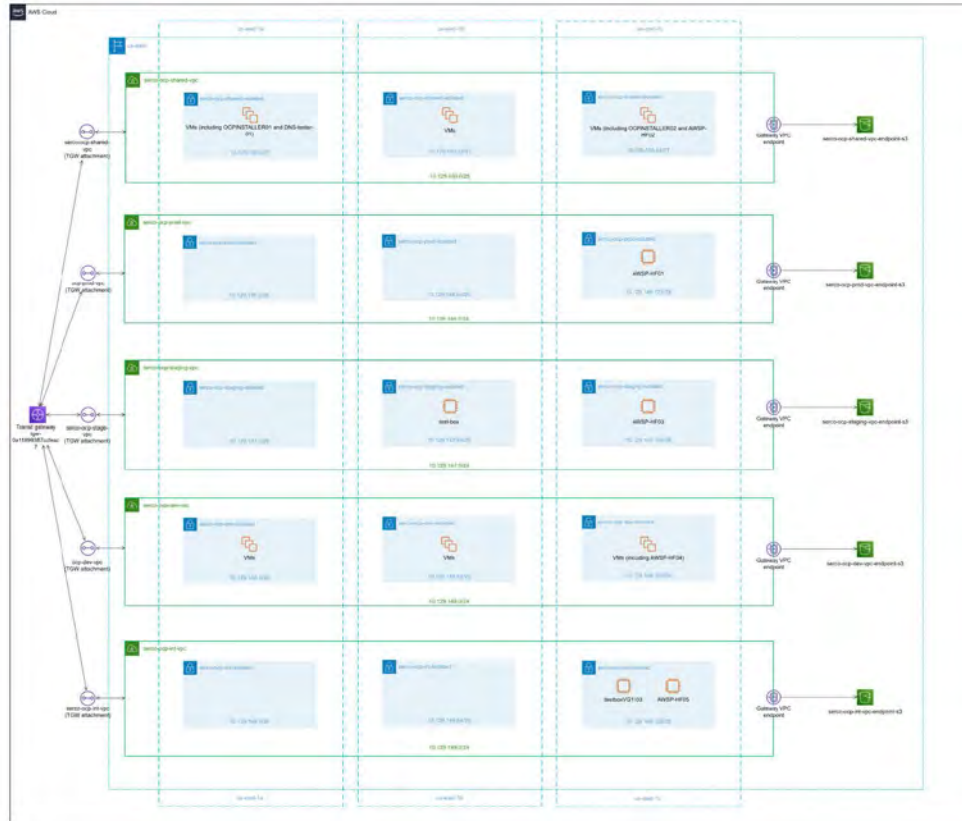
- **Zscaler Client Connector (ZCC)**
 - Installed on all company-owned workstations to manage secure, TLS-encrypted connections to the Zscaler security broker, where traffic is inspected and enforced based on strict security policies
- **AWS AppStream 2.0** – Used for secure virtual desktops, allowing employees to process protected data and manage communications via Amazon Connect within a controlled environment
- **IAM Policies** – Customized to restrict access to specific virtual desktop fleets, reinforcing security measures across the client's operations
- **Enhanced Security through Virtual Air-Gapping** – Isolated the account and VPC hosting the AppStream service from the broader network environment, with no configured routes to other VPCs and direct internet access disabled, ensuring a robust implementation of the Zero Trust model

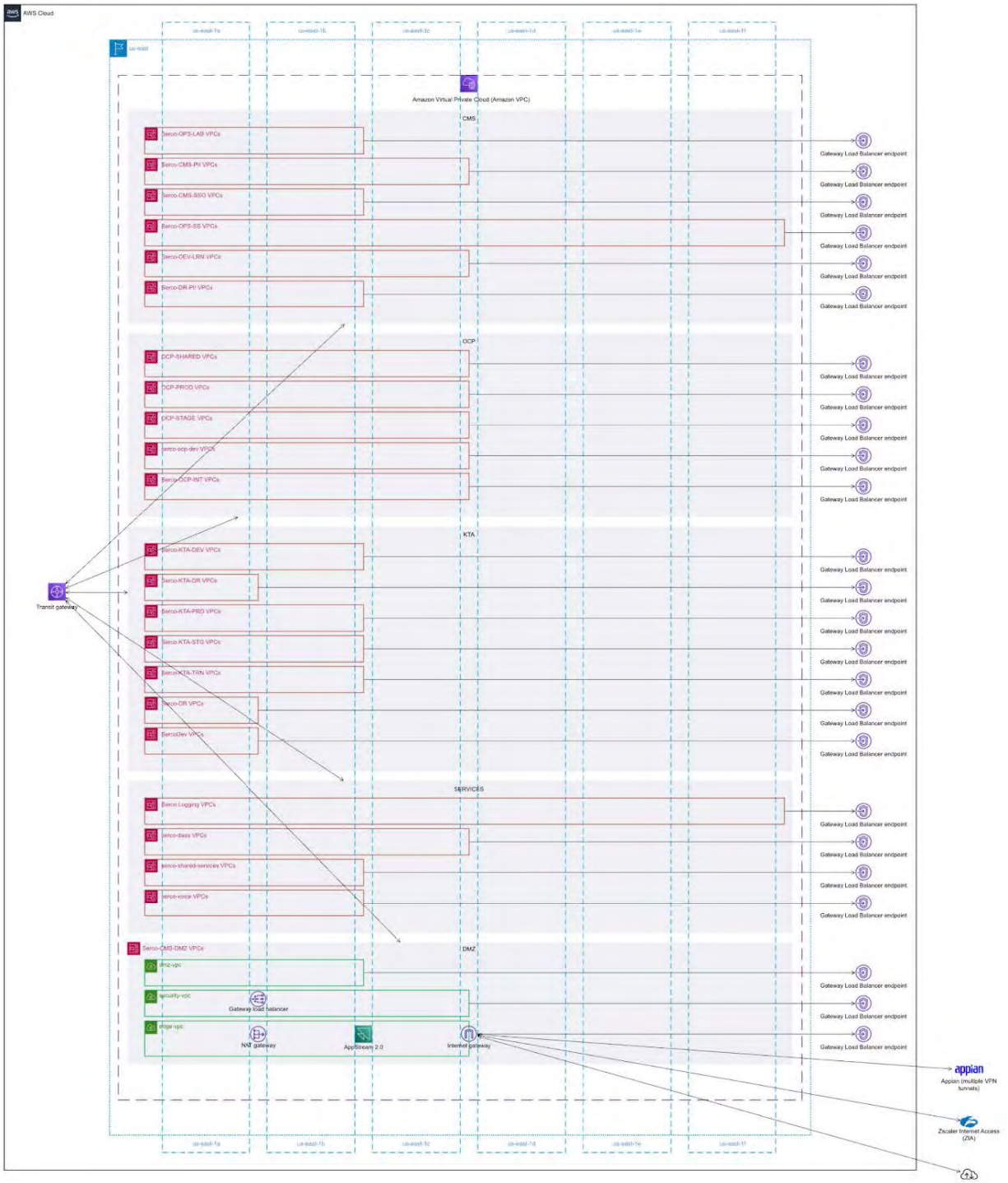
RESULTS

This implementation of ZTNA and AWS services has allowed the client to manage a nationwide remote workforce while maintaining strict compliance with government cybersecurity standards and HIPAA regulations.



High-Level Architecture Diagram





Interested in an AWS Well-Architected Framework Review?

Schedule a [free AWS Well-Architected Framework Review with nClouds](#) to see how you can apply architectural best practices to drive better business outcomes.

ABOUT
nClouds

nClouds is a certified, award-winning provider of AWS and DevOps consulting and implementation services. We partner with our customers as extensions of their teams to build and manage modern infrastructure solutions that deliver innovation faster. We leap beyond the status quo.

