MPC Solutions Scales Globally with ClearScale's AWS Modernization

The Challenge

MPC Solutions' initial AWS environment lacked a foundational multi-account strategy and centralized governance, creating security vulnerabilities and hindering scalability. The absence of Infrastructure as Code (IaC) made infrastructure management inefficient and prone to errors, while the lack of CI/CD pipelines slowed application deployments and increased risk. Migrating their live applications and databases to a new, segmented architecture required careful planning and the development of significant automation capabilities.

The Solution

MPC Solutions, a dynamic provider of in-store digital content for global retailers, was experiencing the growing pains of success on AWS. Their initial cloud setup, while functional, had become a bottleneck. Imagine a sprawling city without traffic laws - that was their AWS environment. Without centralized governance, security was a patchwork, compliance a headache, and simply adding new resources was slow and risky. Their talented team was bogged down in manual infrastructure management, like hand-cranking every server, and releasing new features to their demanding retail clients felt like navigating a maze without a map. The need was clear: they needed agility, security, and speed to maintain their competitive edge and fuel further global expansion.

### ClearScale: Architecting the Future of Agility

ClearScale stepped in as strategic architects, understanding that MPC Solutions needed more than just technical fixes – they needed a modern foundation for innovation. Our approach was holistic, focusing on building a future-proof AWS environment based on best practices and automation.

Establishing Order with the Landing Zone

To bring order to the chaos, ClearScale implemented a multi-account AWS Landing Zone using Control Tower and Organizations. This wasn't just about structure; it was about creating distinct, well-defined neighborhoods within their cloud city. Dedicated accounts for Infrastructure, Security, and Workloads provided clear boundaries, consistent policy enforcement, and a significantly enhanced security posture, freeing their team from constant security firefighting.
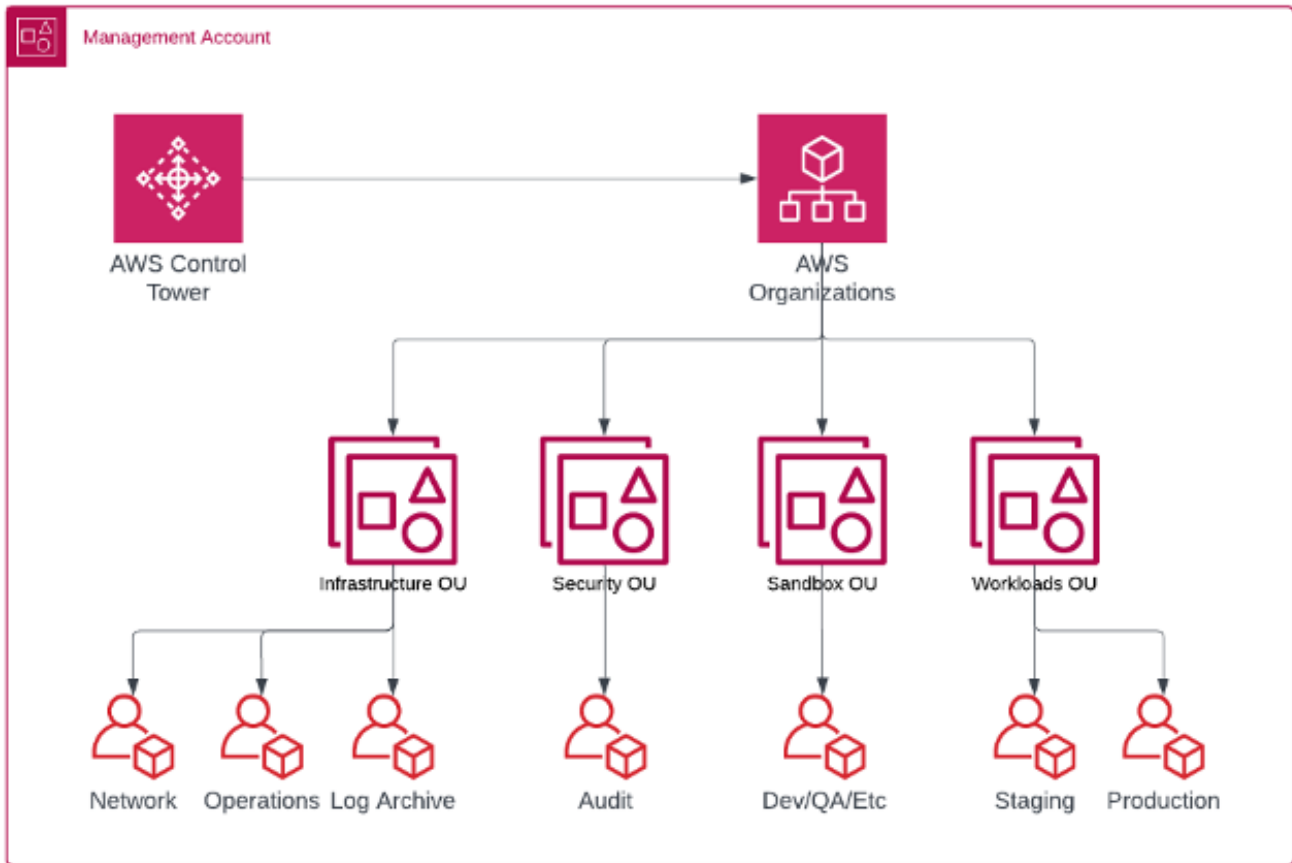
Building the Automated Machine with Infrastructure as Code

The manual drudgery of infrastructure management was replaced by a powerful automated machine. ClearScale developed reusable Terraform modules, essentially blueprints for their entire infrastructure – from the network plumbing (VPCs, subnets) to the vital organs (EC2, RDS) and secure storage (Secrets Manager). Now, provisioning and managing infrastructure became as simple and reliable as running code, eliminating human error, ensuring consistency, and providing version control - a true game-changer for agility.

Supercharging Deployments with CI/CD Pipelines

Releasing new features, the lifeblood of their service, was transformed from a slow, risky process to a rapid, reliable flow. ClearScale built customized CI/CD pipelines that automated the entire journey of code – from development to testing and finally, seamless deployment into their newly organized environments. This meant faster time-to-market for critical updates and innovations, keeping their retail clients delighted and ahead of the curve.

Navigating the Transition with a Phased Migration

Moving a live, global operation is like performing surgery while the patient is running a marathon. ClearScale meticulously planned and executed a phased migration strategy, moving workloads environment by environment. For the critical production environment, a

waved rollout across user groups acted as a safety net, ensuring a smooth transition with minimal risk and uninterrupted service for their customers.

Empowering the Team for Long-Term Success

Recognizing that technology is only as powerful as the people who use it, ClearScale worked hand-in-hand with the MPC Solutions team throughout the entire journey. This collaboration ensured alignment and facilitated thorough testing and refinement. Crucially, comprehensive documentation and knowledge transfer sessions empowered the MPC Solutions team to confidently operate and maintain their modern, automated AWS environment, fostering self-sufficiency and long-term success.

The Benefits

The transformation delivered by ClearScale wasn't just technical; it was a strategic enabler. MPC Solutions now had a secure, scalable, and agile AWS foundation that allowed them to innovate faster, respond to market demands quicker, and efficiently manage their growing global footprint. By removing the operational burdens and technical complexities of their old environment, ClearScale helped MPC Solutions unlock their true potential, leading to increased customer satisfaction and a stronger trajectory for revenue growth. They moved from being constrained by their infrastructure to being empowered by it, ready to build whatever comes next.