

Red River Implements Cloud-Native Disaster Recovery Solution for Mid-Atlantic Civil Construction Producer



CHALLENGE

A large civil construction and materials producer in the Mid-Atlantic region had a long history of leveraging technology to support and grow the company. The customer's IT team had a forward-looking approach to infrastructure management, including a strong focus on system availability. This led them to look for a cost effective and efficient Disaster Recovery (DR) solution that could support critical applications running in AWS. Along with consistent uptime of their internal applications, the customer needed a solution that could achieve their Recovery Time Objective (RTO) of 60 minutes or less. It was important to the customer that the DR solution minimize manual effort and leverage automation to replicate infrastructure environment in a second AWS region.



SOLUTION

To support this goal, the customer turned to Red River, their managed services provider, to design, build and implement their DR environment. Red River recommended leveraging Infrastructure as Code (IaC) to create a repeatable and consistent DR environment, while reducing potential risk by avoiding the common mistakes that occur during manual deployment. Based on input from the customer, the Red River Professional Services team built a "one-click" solution that could quickly provision the company's AWS environment in a different AWS region for DR. To support the cloud-native approach to infrastructure that the customer required, the team leveraged Red River's cloud framework built on Terraform. All production backups, configurations and scheduling utilized AWS Backup services to help build the DR site. With Red River's established cloud framework along with AWS backup services, Red River created a cloud-based DR environment that can be quickly redeployed while preventing data loss and corruption. This improved reliability in the event of a major disruption



RESULTS

The adoption of an IaC DR solution allowed the customer to stand up their DR environment well under the RTO goal of 60 minutes. This included multiple resources created within the environment that would properly orchestrate in place in the event of a disaster. An important goal for the customer was to simplify the process of post-disaster recovery. This led to the implementation of a one-click deprovisioning mechanism for the environment, saving significant time whenever a DR drill or event occurs. This project builds on the longstanding partnership between the customer and Red River, resulting in a cloud-native approach to infrastructure while reducing deployment time and costs consistent with industry best practices. This allows Red River to increase the value we provide to the Customer as their Managed Services Provider.

If you are interested in learning more about how Red River can assist your organization with an AWS Solution, please contact us at cloud@redriver.com or visit us at [Red River | AWS Managed Services, AWS Cloud Service](#).

ABOUT RED RIVER

Red River brings together the ideal combination of talent, partners and products to disrupt the status quo in technology and drive success for business and government in ways previously unattainable. Red River serves organizations well beyond traditional technology integration, bringing more than 25 years of experience and mission-critical expertise in managed services, AI, cybersecurity, modern infrastructure, collaboration and cloud solutions. Learn more at redriver.com.