eCloud
Managed Solutions

Punta Gorda Airport
Disaster Recovery Case Study

Punta Gorda Airport

THE CLIENT

PGD is off I-75 on Florida's southwest coast between Sarasota and Ft. Myers. Sun Country and Allegiant provide low-cost, nonstop air service to more than 50 destinations. Owned and operated by the Charlotte County Airport Authority, PGD is an important transportation and economic asset for the region, providing hundreds of onsite jobs, space for business and aviation tenants, and more than $1.7 billion in total economic output.

THE CHALLENGE

Punta Gorda airport has a legacy on premise location that is in need of a technology refresh. A decision needed to made on whether to refresh and stay on premise, or look at the public cloud. With some skepticism regarding the cloud and how AWS could truly benefit their operations, we embarked on a POC of 13 VMs and workloads that included Microsoft Active Directory, Microsoft Dynamics ERP and key SQL databases. These workloads and applications are mission critical and needed to be able to work to create confidence that AWS was a feasible option.

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Charlotte County Airport Authority

OUR APPROACH

eCloud demonstrated public cloud and AWS specific expertise with regards to DR architecture/setup, how to meet their RPO and RTO timelines. We would setup in AWS for a specific multi-account and multi-AZ deployment leveraging cloudformation and IaC, as well as overarching review, analysis and recommendations for Punta Gorda Airport's reference architectures on AWS. eCloud enabled their applications and replicated over into AWS review architectures for a disaster recovery situation and better understand the business impact of our design to allow Punta Gorda to test, review and approve the design.

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THE SOLUTION

Phase I: We generated inventory, added a migration plan, then created dependencies for all accounts/resources
Phase II: Deployed all resources into target DR region (USE2)
Phase III: Deployed security/networking capabilities to enable DR failover. If disaster strikes, we will be able to help recover it.
Phase IV: Moved data migration tools (e.g. EC2 EBS devices, RDS) to DR
Phase V: Template-tized their environments leveraging Cloudformation that we turned over for future use, builds, etc.

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SOLUTION DIAGRAM
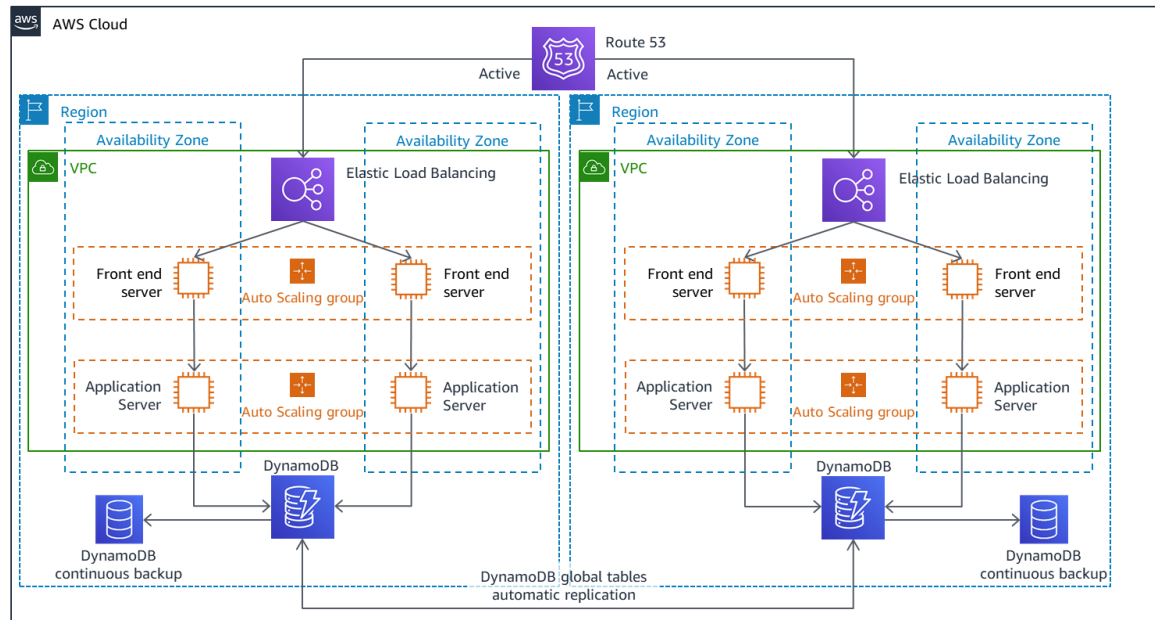
THE BENEFITS

During the POC and testing out AWS capabilities for the DR failover and test, Punta Gorda was getting ready to be hit by Hurricane Ian, a Category 4 storm. We were able to replicate the environment in time hours before the hurricane hit and knocked out power to their local data center. Users could remote into the environment, if they had internet connection intact. Through this event we proved that Punta Gorda Airport could fully deploy the DRaaS solution as repeatable and easily-maintained Infrastructure as Code for their DRaaS environment that was tested under the most extreme conditions and proven RPO and RTO requirements.

About eCloud

eCloud Managed Solutions, based in Atlanta GA, helps organizations increase security and efficiency by offering guaranteed performance and business agility while mitigating risk with cost-effective hybrid solutions. Founded in 2016, eCloud is a woman-owned business that guides organizations in evaluating, migrating and operating to better support business requirements. eCloud has helped companies remain secure, compliant, and highly available to their customers that rely on them. For more information, visit ecloudms.com

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