PROJECT OVERVIEW

Seamlessly migrated a HIPAA-compliant healthcare application from MedStack to AWS, achieving superior scalability, cost efficiency, and security. Leveraging AWS's advanced capabilities, we ensured a zero-downtime transition, enabling uninterrupted service and seamless onboarding of new providers, positioning the client for future growth and innovation.

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CHALLENGES

NEED TO MIGRATE

KEY FEATURES

- **Comprehensive Infrastructure Assessment:**
  - Detailed analysis of the existing MedStack environment, including data storage, dependencies, and integrations.
  - Evaluation of current HIPAA compliance measures.
- **Strategic Migration Planning:**
  - Utilized the AWS MAP framework (Assess, Mobilize, Migrate) to develop a robust migration strategy.
  - Selected AWS services, predominantly ECS and EKS
- **Refined Migration Execution:**
  - Employed Amazon DMS for efficient data migration, ensuring encryption of PII and PHI.
  - Set up a HIPAA-compliant environment with IAM for access control.
  - Implemented monitoring and alarms using CloudWatch and CloudTrail.
  - Conducted security assessments using GuardDuty, Config, Security Hub, and Trusted Advisor.

OUR SOLUTION

Our migration strategy was meticulously planned and executed using the Assess, Mobilize, and Migrate—ensuring a smooth transition to AWS while maintaining compliance and optimizing performance.

1. Assess Phase:

We began by comprehensively evaluating the current environment to understand the applications and their compatibility with AWS. Using AWS Migration Hub, we gained a holistic view of the environment and tracked migration progress. To plan cost optimization, the team utilized AWS Cost Explorer, and AWS Security Hub was instrumental in assessing the security posture and identifying compliance gaps.

2. Mobilize Phase:

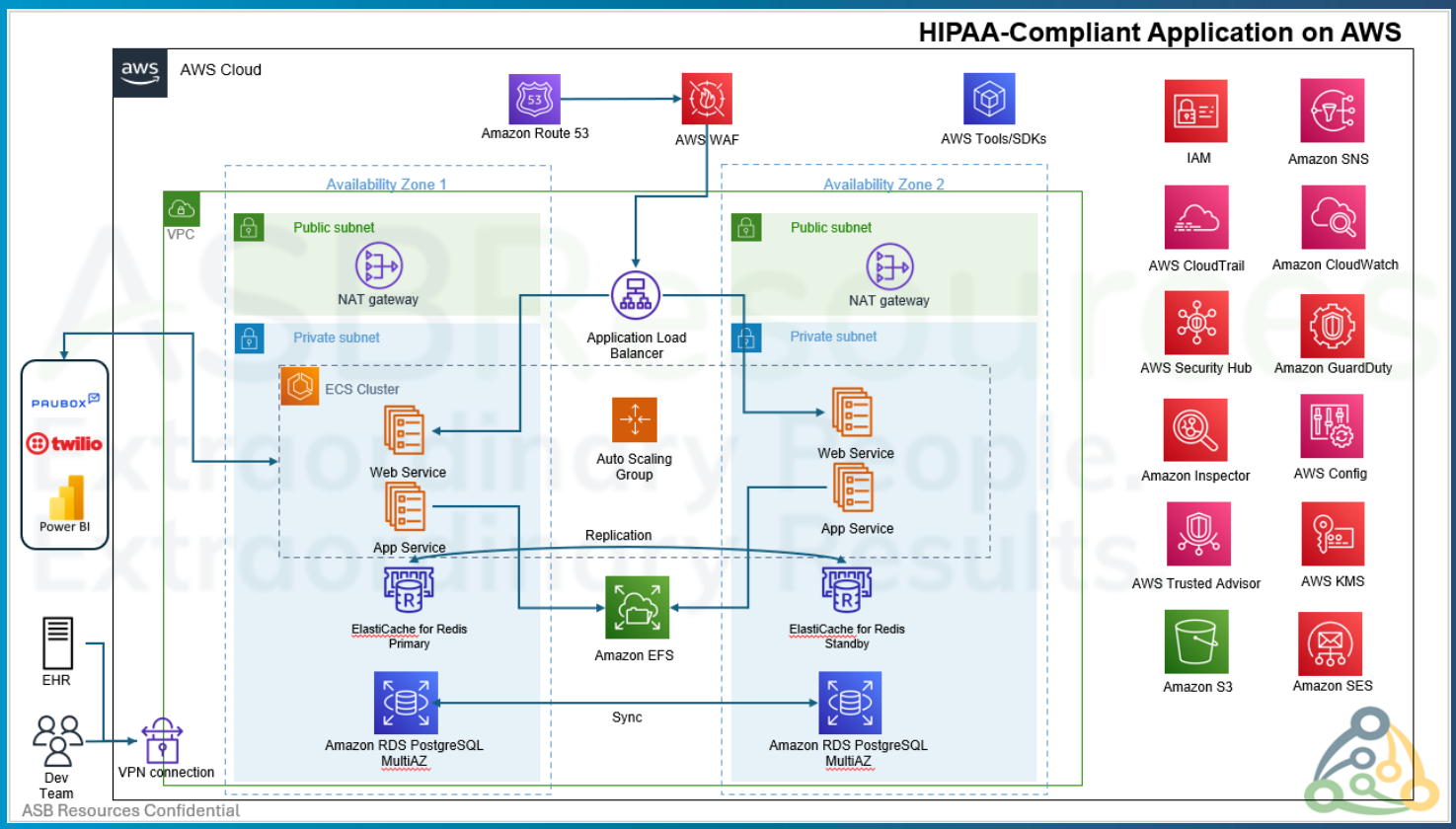
In this phase, we focused on planning and setting up the AWS environment. As the customer intended to deploy multiple environments repeatedly, the team created AWS CloudFormation which were used to provision AWS resources through templates. We configured AWS VPC to establish a secure virtual network for the application and on-premises. EHR connectivity also was prepared via VPN. AWS Identity and Access Management (IAM) was set up to manage user access, roles and permissions.

3. Migrate Phase:

The migration was executed with minimal downtime, leveraging AWS native tools. AWS Database Migration Service (DMS) facilitated seamless database migration. For continuous integration and deployment, we employed AWS CodePipeline and AWS CodeBuild. To ensure security during and post-migration, we used AWS WAF with Application Load Balancing. Post-migration, we focused on monitoring and optimization. AWS GuardDuty, AWS Config, and AWS Security Hub were used to maintain a secure environment.

TECH STACK

- VPC, Public and Private Subnets
- Route53, AWS WAF, ALB
- ECS, ElastiCache, RDS Multi-AZ
- IAM, SNS, CloudTrail, CloudWatch
- Security Hub, GuardDuty, Inspector, Config, Trusted Advisor
- KMS, S3, SES
- AWS DevOps tools and SDKs
- Paubox, Twilio, PowerBI



KEY OUTCOMES

- Successful migration to AWS with zero downtime
- Enhanced data security and compliance, building customer trust.
- Reduced operational costs by 30% through optimized cloud usage.
- Improved system scalability by 50% with ECS and Auto Scaling
- 75% improved efficiency with automated onboarding of new providers

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