

AWS Service	Role in the Project	Key Skill Demonstrated
AWS Lambda	The Worker: Executes the Python-based HTTP/S health check logic.	Serverless Compute, Boto3 SDK, Exception Handling (Timeouts, Network Errors).
Amazon EventBridge	The Scheduler: Triggers the Lambda function reliably every 5 minutes using a rate expression.	Infrastructure Automation, Event-Driven Architecture.
Amazon SNS	The Alerting System: Publishes critical failure messages, instantly notifying subscribers (via email) when a website is down.	Real-Time Communications, Alerting Configuration.
Amazon DynamoDB	The Persistence Layer: Records detailed logs of all failure events (timestamp, status code, error message) for historical analysis and reporting.	NoSQL Database Management, Data Modeling for Event Logging.
Amazon CloudWatch	The Observer: Collects logs (CloudWatch Logs) and monitors Lambda execution metrics, ensuring the system itself is healthy.	Comprehensive Monitoring, Observability.