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Link for amazon user interface

[LBT solution](#)

Notification demo gmail

username:[hacc22aws@gmail.com](mailto:hacc22aws@gmail.com)

password:Hacc2022?

The team took the problem as a legacy problem. We first came up with a high capability matrix of lotus notes. Then matched the high capability matrix with services from AWS. The team then researched service's from AWS that matched the lotus notes high quality matrix. We then looked at architecture diagrams for the services we were going to use for the project. Then from these diagrams we came up with our own architectural diagrams. The program we used to create our architectural diagrams was drawn with draw.io

Below are the architectural diagrams we created.

The system diagram below uses two EC2 instances, application load balancer and AMAZON cognito. The two ec2 instance are used to create a user interface

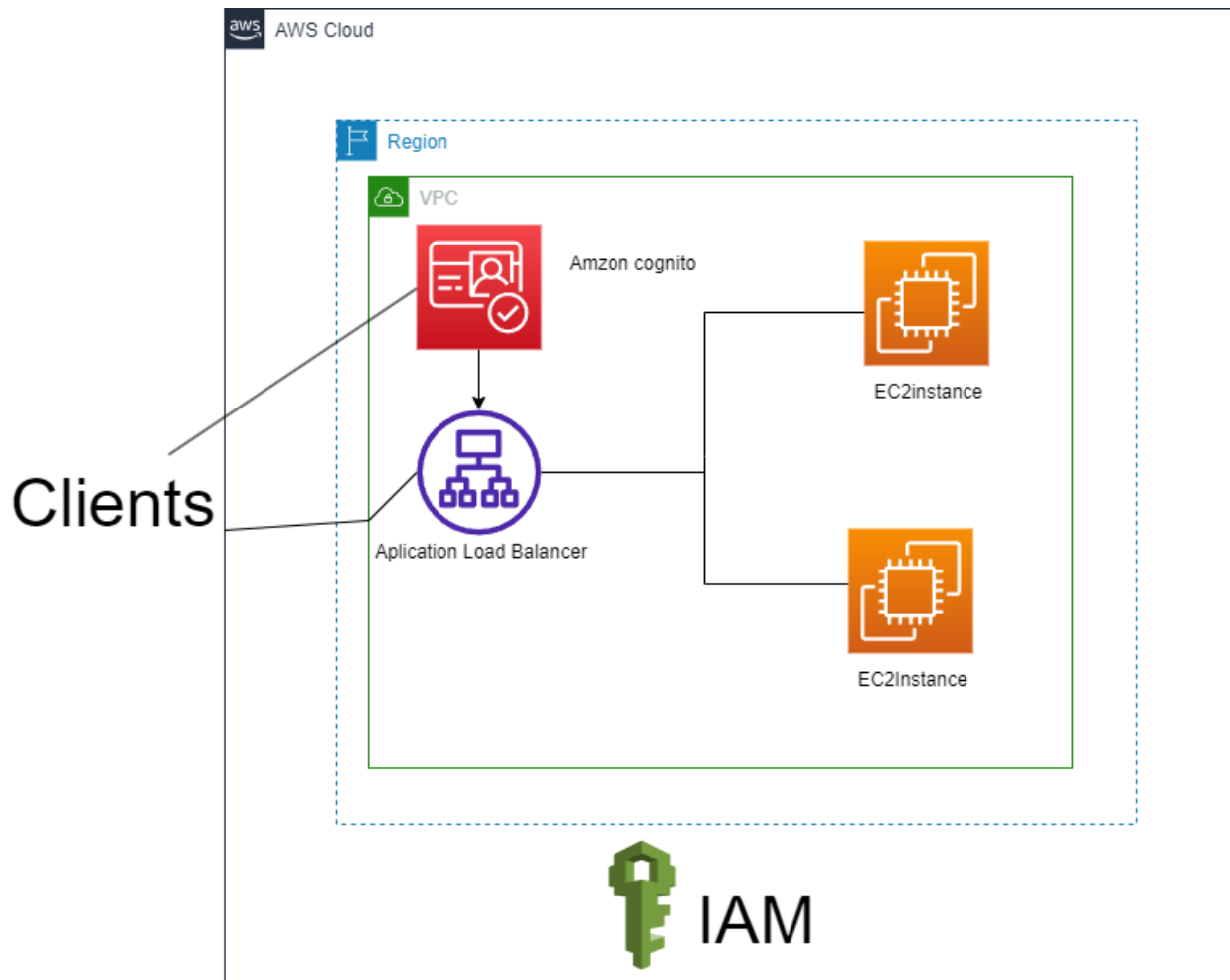
The two ec2 instances use an AMI with wordpress for a dynamic user interface. Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instance types comprise varying combinations of CPU, memory, storage, and networking capacity and give you the flexibility to choose the appropriate mix of resources for your applications. Each instance type includes one or more instance sizes, allowing you to scale your resources to the requirements of your target workload. General purpose instances provide a balance of compute, memory and networking resources, and can be used for a variety of diverse workloads. These instances are ideal for applications that use these resources in equal proportions such as web servers and code repositories.

. Amazon Cognito is used to control authorized user access and user sign up to the user interface on mobile and web applications. It is being used to help with security access to the EC2 instances. With Amazon Cognito, you can add user sign-up and sign-in features and control access to your web and mobile applications. Amazon Cognito provides an identity store that scales to millions of users, supports social and enterprise identity federation, and offers advanced security features to protect your consumers and business. Built on open identity standards, Amazon Cognito supports various compliance regulations and integrates with frontend and backend development resources.

The application load balancer is used to ensure access to the EC2 instance by distributing the workload. An Application Load Balancer functions at the application layer, the seventh layer of the Open Systems Interconnection (OSI) model. After the load balancer receives a request, it evaluates the listener rules in priority order to determine which rule to apply, and then selects a

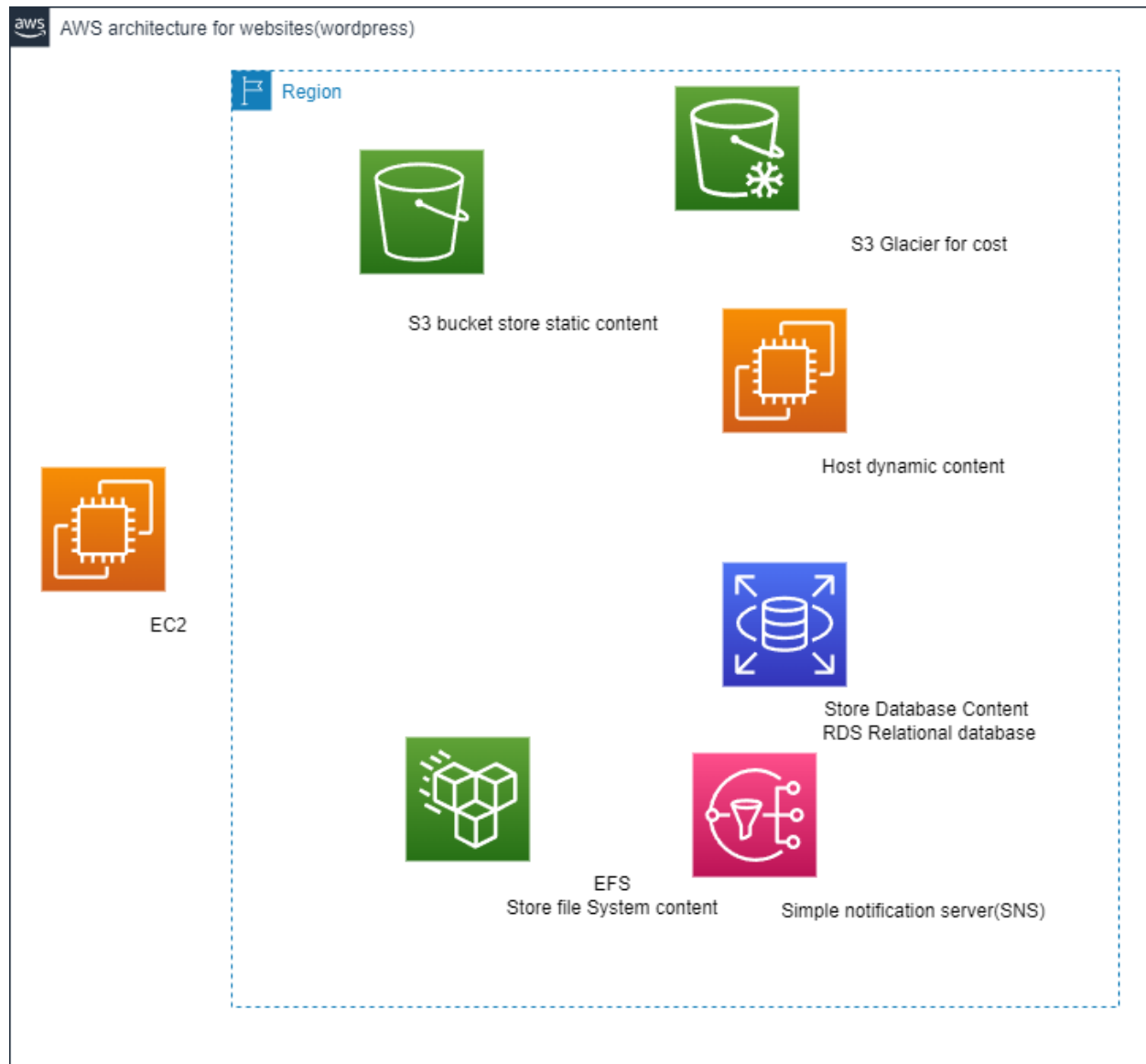
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target from the target group for the rule action. You can configure listener rules to route requests to different target groups based on the content of the application traffic. Routing is performed independently for each target group, even when a target is registered with multiple target groups. You can configure the routing algorithm used at the target group level. The default routing algorithm is round robin; alternatively, you can specify the least outstanding requests routing algorithm.



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The architecture for website architecture diagram explains the ec2 instances. It consists of an S3 bucket, S3 Glacier, EFS, RDS and SNS simple notification system. The S3 bucket is used to hold the static content. The S3 Glacier will be used to hold previous years bills Glacier will help to reduce the cost because previous years are not used as frequently. The EC2 instance will use a Amazon Machine Image with wordpress. With wordpress AML a dynamic website can be created. Simple notification will be used to send email or text notification of upcoming hearings and bills. The relational database will be used for data and answer any SQL queries.



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