Tick-It

Event Ticket Distribution Website Hosted on AWS

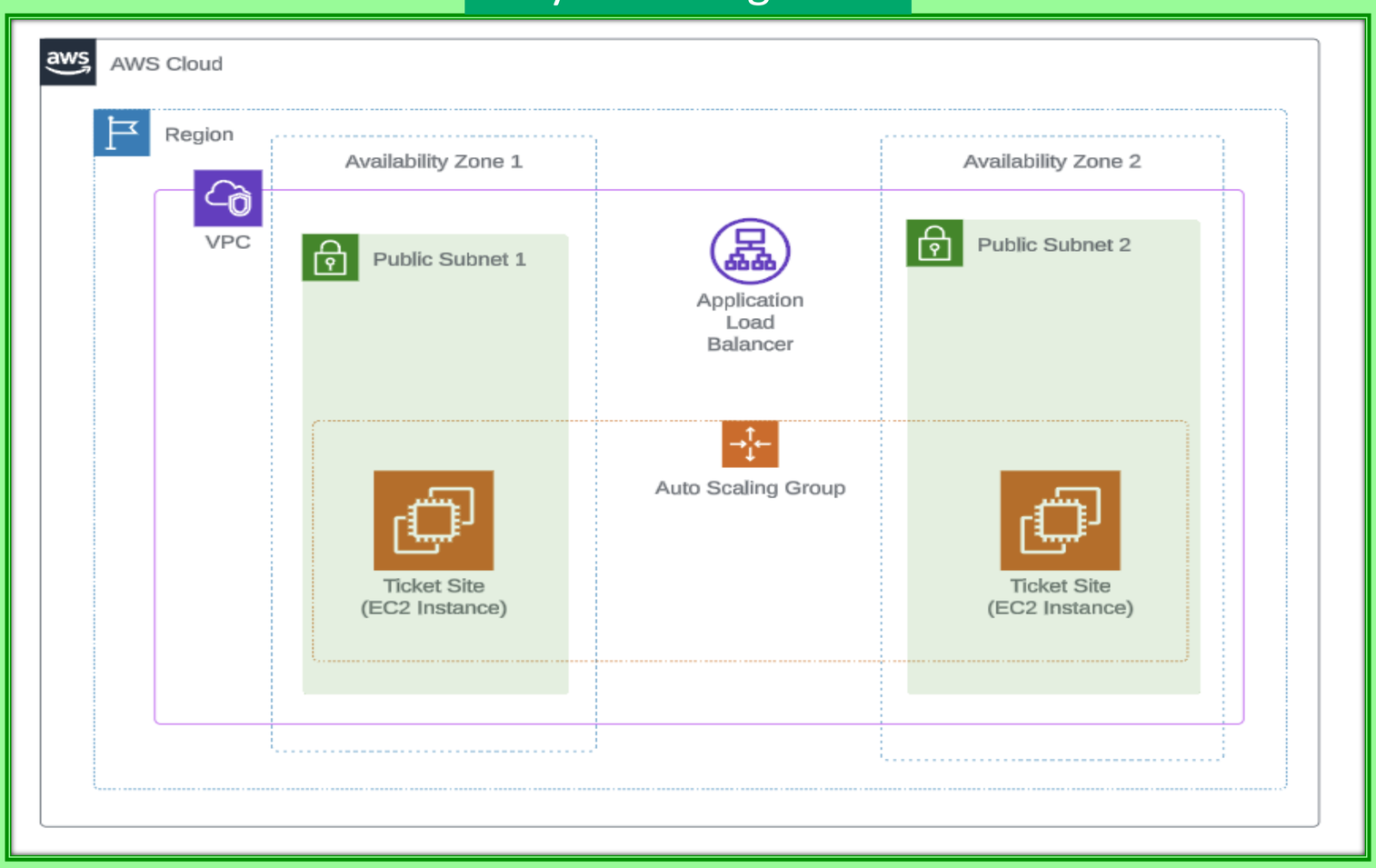
Abstract

The overarching strategy for this project is to develop a web application hosted on AWS EC2 instances. This web application facilitates the purchase of tickets for upcoming events. To ensure seamless performance, the website incorporates auto-scaling mechanisms such as an application load balancer and CloudWatch Alarms and Metrics. When CloudWatch alarms trigger, AWS dynamically adjusts and/or creates server resources to accommodate for surges in traffic. This is likely to happen at peak periods such as the onset of ticket sales for highly anticipated events. The web app itself has a simple design, is user-friendly and has features that are lacking from other similar products on the market today.

Main Features

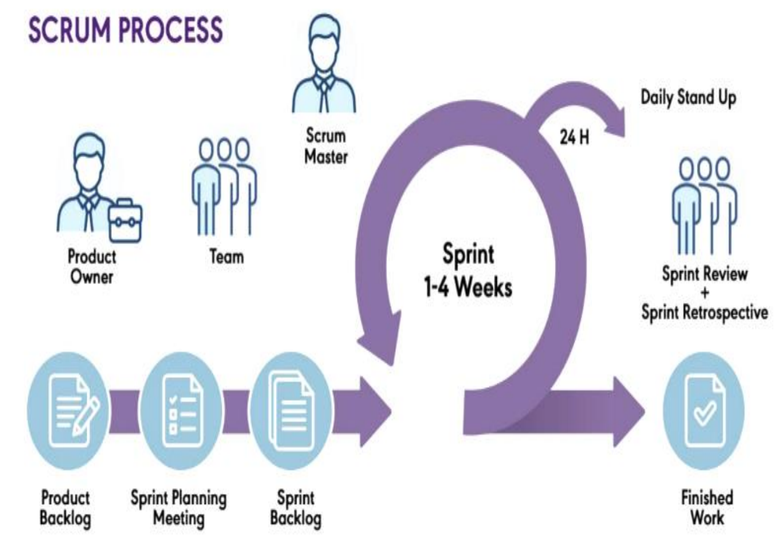
- Search events – Users can easily search for their desired events.
- Login/Signup – Users can sign up or login to access more features.
- Event filters – Users can easily filter for the events they want.
- Purchase Tickets – Users can purchase tickets from Tick-It.
- View number of tickets left – Users can view this when purchasing.
- AWS – All of the backend is hosted on Amazon Web Services.

System Diagram



Tick-it

SCRUM Methodology



A SCRUM agile methodology is highly flexible and is ideal for collaboration. Once a plan is in motion and the product is being developed. It is produced in small parts after each sprint where at the end of each sprint, the developers and customers can express their satisfaction with the product and adjustments can be made for the next sprint.

I chose this methodology to ensure continuous progress of my project with sprints that lasted around 2 weeks each to allow enough time to develop each of the desired features I was looking to have in my project.

Key Technologies

aws · HTML5 · CSS3 · JavaScript · Discovery API · GitHub

Ilija Gacov

Applied Computing (Cloud and Networks) | SETU (Waterford Campus) | Department of Computing and Mathematics