

Finalization phase (Abstract)

Abstract

I choose all the listed tools in description pdf because of the requirements of our project. The used tools and services are cheap very fast and reliable. We can use s3 bucket over EC2 instance if we don't need a for a custom domain for our webpage. Moreover, Route 53 can make our webpage very highly reliable and can provide global-dispersed DNS server. I am also not using aws CloudFront for our project when it comes to low latency because our webpage is very simple and we are not posting any high quality video content. CloudFront is a great tool for content delivery website because of its high speed and low latency feature. we already discussed about the benefits of aws autoscaling group and their functionality. It is one of the best tools offered by aws to auto scale in any case sudden and unexpected increase in the amount of traffic. I use terraform over CloudFormation because its open-source and have ton feature that are not available with any other tool. It makes the code understandable, and it can be used from any pc any time we want. The operation with terraform is also very easy as compared to CloudFormation. With in just few click we can modify the resource we want. I give priority to tools that will easily fulfil over needs at the best price.

When running our webpage can be accessed through any device with preferred ip address or DNS address. This is one another benefit of ec2 instance by which our webpage can be accessed from anywhere in the world. It also provides great security features, but we still add security groups for extra level of protection for inbound traffic form malicious sources.

While working with terraform I realise it will make our task handier if we have the knowledge of the HCL language and the IAM access keys. With just few simple steps our architecture can be deployed online. We also get a detailed information about the errors in our system while working and it will not have any impact on rest of the code.

Finally, I believe the result of the project is what I want to achieve as per the requirements of this task, but I know there is always a room for improvement. We can still modify the terraform code to make the webpage more appealing and technically

powerful. I am also looking forward to work more with cloud service and to learn more about the features of cloud computing and what benefits it provides.