# HASS Cloud Dynamics

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ABSTRACT:

In this data driven decade, it is in high need for a highly available, secure and scalable resource, no matter who provides it. In that case, we tried our best to come up with a better solution that could be a great asset for an organization that completely relies on Cloud data. Moreover, we developed a platform where we can monitor the complete setup of our all cloud platforms and the infrastructure. This monitoring not only allows us to view the performance but also gives us more information on health of the servers and cloud storage. This setup ensures high availability of data and provides great security to the data and the communication channel. Also, this setup can be scalable to any extent. This cloud base is cost efficient and ensures high security of data. Thus we named it as, HASS Cloud Dynamics where HASS stands for Highly Available, Scalable and Secure.
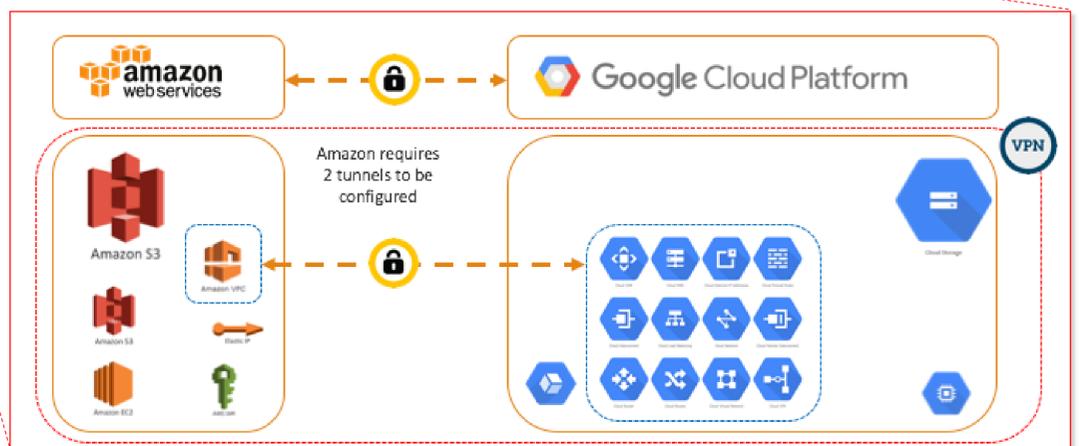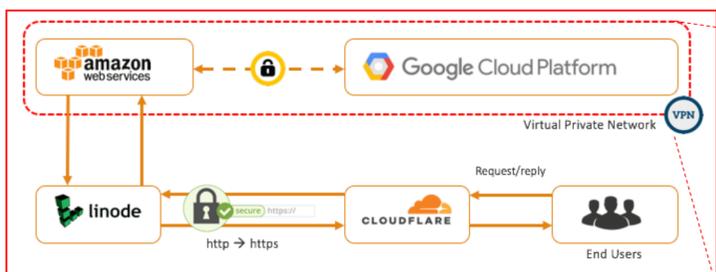
This pictorial representation depicts only the hidden layers in this HASS Dynamics project. This hidden layer adds more value to the proposed concept by relying on alternate solutions to maintain the HASS stack.
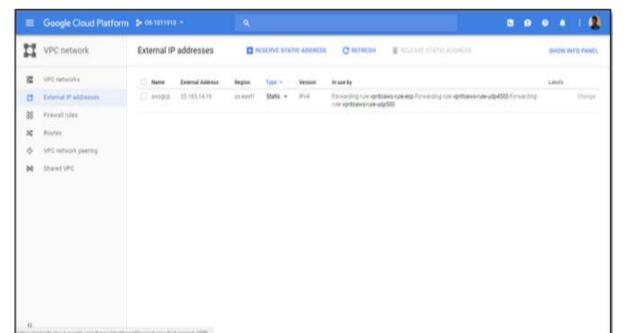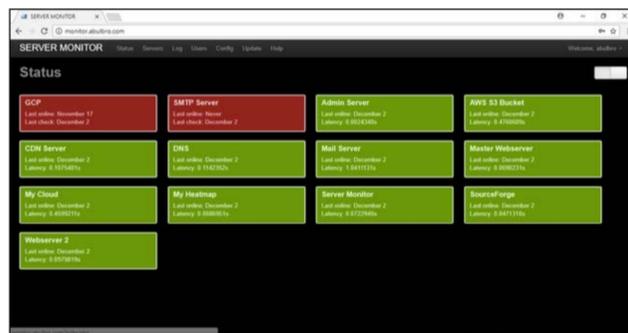
COST ESTIMATION:

We came up in such a way that this setup is also concentrating on reducing the cost of the system. A piece of PHP snippet was built to run in the background which reduces the access cost of the cloud storage. In the enterprise level, if they wanted to setup this infrastructure, it would cost them $2350 per year(Approx.). The split-up of the total cost would suffice to prove. Getting a static IP would cost around $15 per month. i.e. $180 per year. Multi cloud integration system would cost $100 per month. i.e. $1200 per year. Similarly, the cost adds up for SSL server setup, nameservers, Webservers, VPN provider. But this HASS project would cost $104.25 per year(Approx.).

CONCLUSION:

This project would be a great resource for any company or a firm to have their own Demilitarized Zone(DMZ). Any organization can have their private data and public data in the same platform and same space. They can switch between those data which are clicks away. This HASS Dynamics project would be a great solution for most of the tech companies out there.