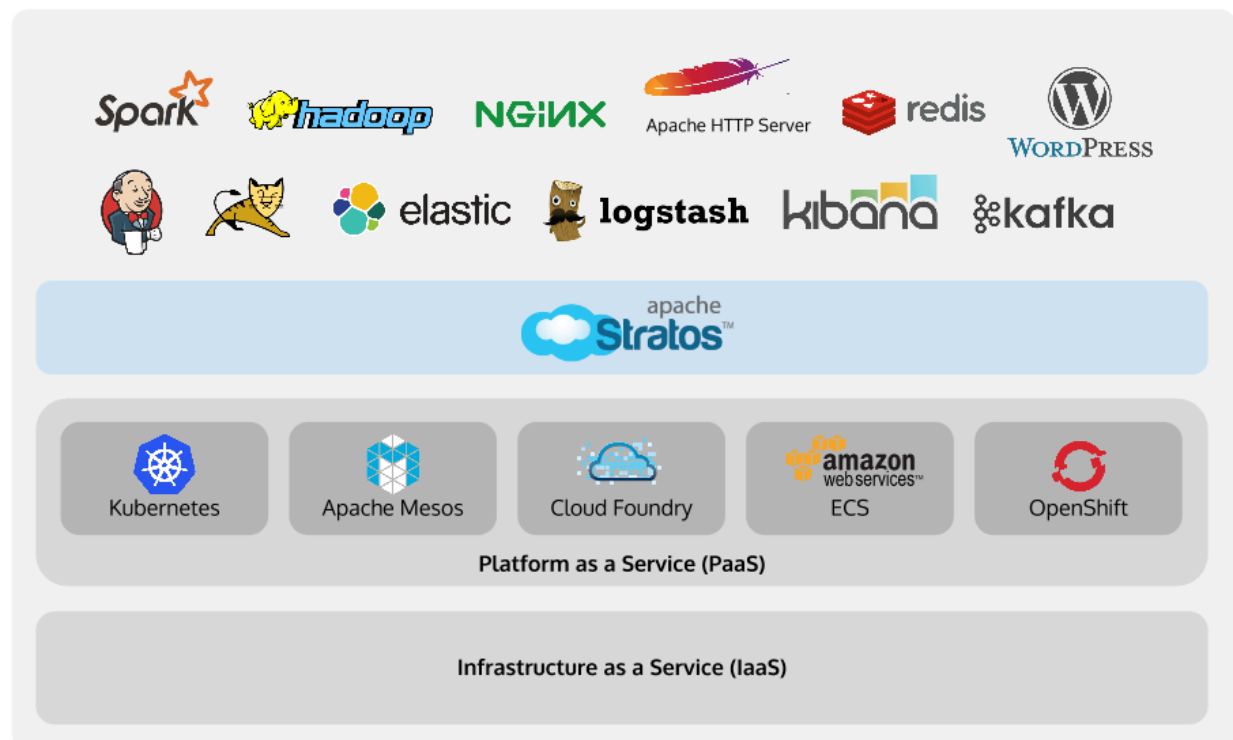## Proposal

Hi Devs,

Couple of time community were discussed about Stratos refacing to carter new technology and threads. Yesterday I have met (unplanned meeting) few PMC/committers (Lakmal, Imesh, Akila, Chamilad, IsuruH) offline and discussed and came up $subject. Please share your valuable thoughts and feedback.

Stratos 4.x and previous versions are mainly focused on run application on top of IaaS. To support multiple IaaSes, we used apache jclouds. But rise of the container technology future app dev and deployment will couple with containers not VM. Because of that we have integrated k8s support in Stratos 4.1.x release. But if we carefully looked at 4.1.x and new k8s releases, we are adding additional layer to k8s without any benefits. Personally I don't like to duplicate engineering effort if it does not giving any value to community. This is the background that we thought of why Stratos need refacing.

Stratos 5.0 - proposing name "Ignite Architecture", we thought of fully focus on container based application development/deployment.

We do not want to reinvent or compete with current PaaS providers. We propose to change the strategy to support multi PaaS instead of support multiple IaaS(Stratos 4.x). In high level, Stratos will provide unique workflow across different PaaS to deploy apps. Users are not going to tie up with PaaS vendors, they will have flexibility to use any PaaS. Stratos will play a role in-between PaaS and SaaS. Initially we can start with k8s (since we all have domain knowledge) then will add Mesos, CF, ECS etc support.

User experience should be very simple. One main problem I have seen in all of these PaaS, their technologies are very complicate to understand average user.

This is total rewrite of Stratos. We discussed to rewrite with GO, main reason Stratos itself should run in-side a container.

Stratos Ignite Architecture should be simple enough to do the following:

```
docker run -d -p 8080:8080 stratos
stratos login https://docker-host:8080/
stratos add env myk8s --platform kubernetes https://kubernetes-master/
stratos add env mymesos --platform mymesos mesos https://mesos-master/
stratos add env myswarm -- platform myswarm swarm https://swarm-host/
stratos add env myecs --platform aws-ecs
stratos deploy tomcat --env=myk8s
stratos deploy tomcat --env=mymesos
stratos deploy tomcat --env=myswarm
stratos deploy tomcat --env=myecs
```