Answer the following questions:

— How would you update a concrete artifact inside the web server layer?

In my case all the app is builded on a Docker image, so to perform an update, it follows all the jenkins pipeline and trigger a deployment update on kubernetes with new docker version using RollingUpdate technique.

— How would you assure HA for the whole application?

The HA is assured keeping always at least two replicas of any service that you are using on the platform. In our example we have I need to deploy another kubernetes master node and another MySQL management node. I need redundancy and failover on storage components and network, as well as Disaster Recovery scenario.

— How would you improve your solution? Mention next steps to be considered.

- Deploy the infraestructure on cloud or datacenter with HA infraestructure.
- Improve monitoring, metrics, alerting and reactors.
- Build a stage infraestructure.
- Write tests and testing stage on Jenkins.
- Improve pipeline triggers, actually using SCM pooling.

- Introduce a vault solution to keep secrets.