1. **Security of application and hosting platform.**

* Aws provides the different options for configuring the Network and ports at our feasibility we can make it as an possibility with proper Network setup and subnets.
* Hosting will be secure as much as possible.

1. **Data leakage protection & Backup and data protection.**

* In data leakage it will give a private network and we will not be giving any other access to the other ports apart from the **SSH** and **port 80/443.** Or any other ports as per the requirement.

* We have **Git** for any backup related to code base. As we are using EC2 instance for the database. We need to take backup daily or weekly.
* We will write scripts for the cron job to take regular DB backups and push to any cloud storage such as S3.

1. **High availability of the application.**

* Currently Aws we are using cloud base services and it is expected the servers will be up for the most part. We have an option for using **Auto Scaling** as well based on the business decision we can enable Autoscaling.

1. **Patching of operating systems.**

* **AWS** **Systems Manager** is an AWS service that we can use to view and control your infrastructure on AWS.

* Using the Systems Manager console, we can view operational data from multiple AWS services and automate operational tasks across your AWS resources.

* Use this feature of AWS Systems Manager to scan your instances for missing patches or scan and install missing patches.
* Aws will enable patching of operating systems via patch manager. Using this functionality we will be able to  do all the patches of the operating system.
* However we can expect the down time during the patches. The minimum downtime can be expected to be 1hr for each server.