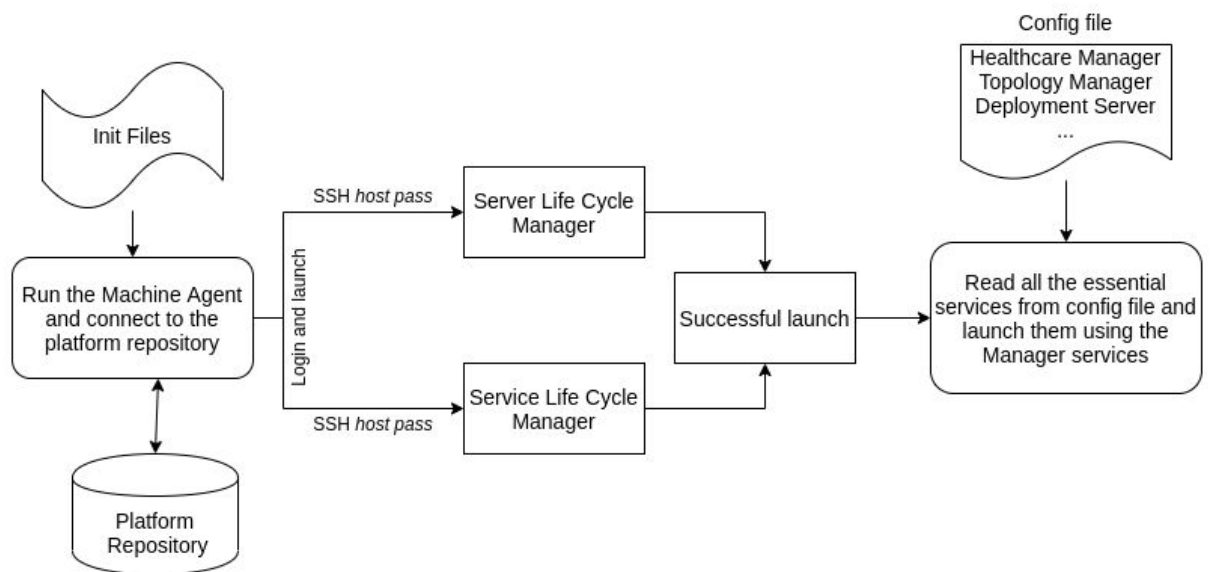


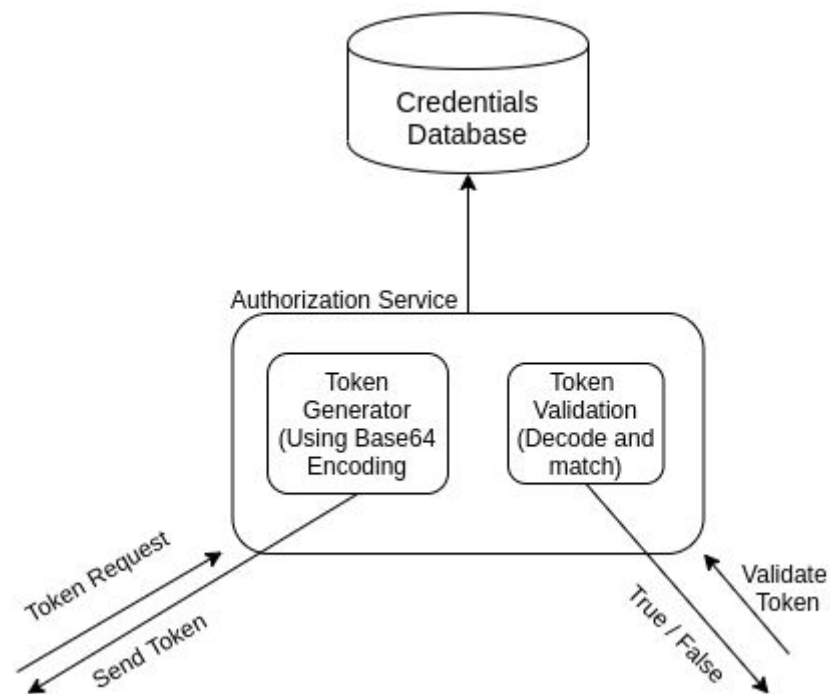
## 1. Platform Bootstrap

- The bootstrap manager performs all the initialization work. It is the first service launched.
- Bootstrap Manager first runs the machine agent and then connects with the repository.
- Using SSH, it runs the Service Lifecycle Manager and Server Lifecycle Manager services.
- All other required services for the platform to work are stored in the config file as <servicename, params>. These services are then launched one by one by the Bootstrap Manager.



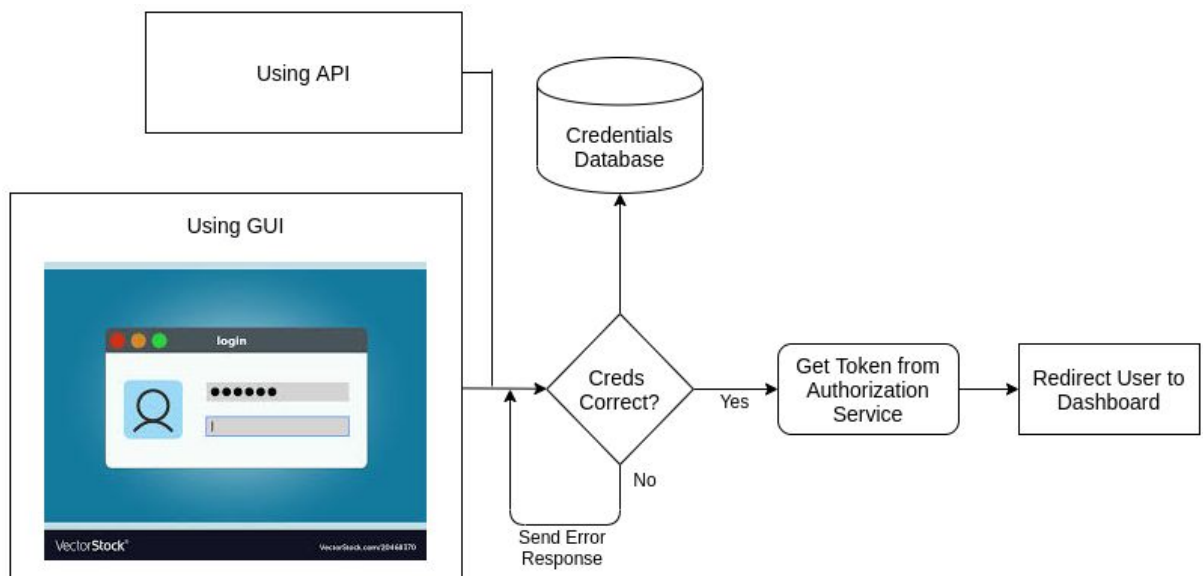
## 2. Authorization Service

- There are 2 tasks for Authorization service.
  1. Generate Token
  2. Validate Token
- Authorization is essential as it prevents illegal access to the system.
- The service provides a base64 encoded string *username:password* which is used as the token for the user. This method returns the token as String.
- The validation method decodes the argument string and verifies the credentials using the credentials database. This method returns True/False based upon the outcome of comparison.



### 3. Authentication Service

- Authentication service verifies the authenticity of the user. It expects the credentials in format *username:password*.
- If successful, the user is granted a token and the user is taken to an interactive GUI based dashboard.
- If failed, a error response is returned.



#### 4. Request Manager

- This service accepts user requests, processes it and returns a response to the query.
- The request handler runs on Apache server, expects input commands in a particular format and generates response. Hence, it can be operated using both command-line/GUI as long as they comply with the format.
- Commands:
  - getFormatForUpload
  - uploadFile
  - listServices
  - startService
  - stopService
  - scheduleService
  - getInfoAboutService

