

# ITO 2019

## Applications:

Each team will be responsible for 3 applications for this competition.

- Java graphical program for Doctors to view and modify patient data.
- Django webapp for displaying the Hospital's home page, part of this application is for patients to view their own records. Patients will authenticate using a login portal hosted through the web application.

## Servers:

### Windows RDP:

Remote Desktop Protocol, or RDP is how your doctors access confidential client data from outside of the hospital internal network. Doctors are to be expected to be able to log in with their Active Directory credentials and run the Java client to do data entry from off site.

### Windows Active Directory:

The windows active directory server will host all of the staff login credentials.

### Database:

Database will be implemented in a SQL like query language on top of a UNIX like operating system.

### Web Server:

This server will serve the hospitals main page over the web for non-employees. This site is expected to allow for the retrieval of client medical data through a login portal.

# Topics:

It may be useful to research or consult your teams mentor regarding some of the following topics to prepare for the scenario.

- Windows server active directory
- Windows server group policy
- Windows server RDP service
- Unix http servers like NGINX or apache
- Unix secure shell server(sshd)
- Authenticating through Windows Active Directory for linux log in. (Not required but can be beneficial)
- Common web server exploits:
  - Session jacking
  - Database injection
  - Cross site request forgery
  - Non html file enumeration