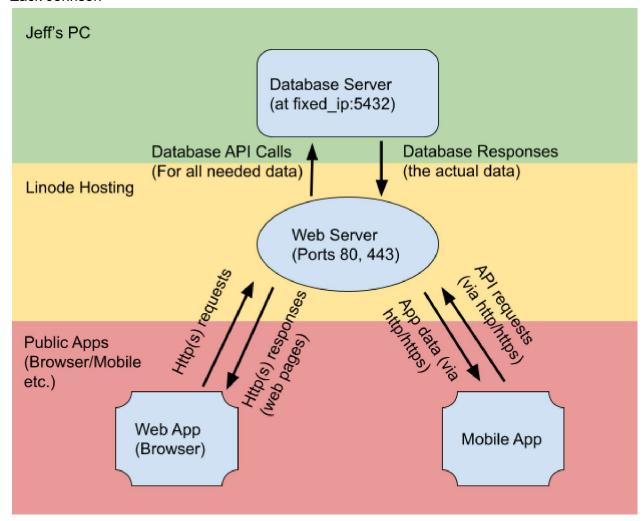Zack Johnson



**Spoofing**
- Mal could attempt to log into the web server (or simply connect to it) posing as another person, allowing them to make or change posts in an unauthorized way. Mitigation: ensure that network connections are secure and account credentials are stored/transmitted in a secure way (e. g. hashed and encoded).

**Tampering**
- Mal could attempt to make API calls (through legitimate channels) to the database that would change or delete their contents (SQL injection, etc.). Mitigation: Make sure that the Web Server properly handles all user data to avoid injection vulnerabilities.

**Repudiation**
- Mal creates a rude post attributed to another person's account by stealing their phone momentarily while it was logged in. Mitigation: Allow the original user a path to report the wrongly posted item and remove it.

**Information Leak**
- Eve could attempt to listen to communications between public applications and the web server. Mitigation: make all connections via Https.
- Mal could send unauthorized API requests to the database and potentially receive leaked data in response: Mitigation: use TLS or a similar encryption system with any communication between the web server and the database.

**Denial of Service**
- Mal could attempt to intercept and block messages between the web server and the database (or it and a particular client). Mitigation: Ensure that network connections (ISPs, Routers, Jeff's Home Wifi) are trustworthy and that there are multiple paths messages could take across the internet.
- Jeff's computer loses power. (either accidentally or because Mal unplugged it or tripped the breaker, etc.) Mitigation: have redundant sources of power, or redundant database servers in different physical locations.

**Elevation of Privilege**
- An admin at the webserver company is a diehard Tapir Fan. They use their admin powers to give their account the special TapirPro status for free. Mitigation: there needs to be sufficient oversight at Linode to prevent this. (maybe two or more admins need to work together on any service jobs)