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FreeBSD WebSocket / REST API (with iohyve!)

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Project Goals (Server)

- Develop new WebSocket / REST middleware which uses JSON for queries / responses
- Supplement FreeBSD, not supplant
  - No database or changes to FreeBSD base system
  - FreeBSD system and utilities are the "source of truth"
  - Works out of box on PC-BSD / TrueOS, can be installed via pkg on vanilla FreeBSD
- Can be used as local middleware or remote Secure and Fast

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Project Goals (Client)

- Develop new Qt Client for PC-BSD
- Create client using only native Qt + SSL
- Support for local or remote system management
- Multi-Platform (BSD, Linux, Windows, OSX)

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Current Progress (Server)

- Work started Jan 2016
- Has support for 1:1 Websocket / REST queries
- All communications encrypted via SSL
- Supports authentication via user/pw and SSL key (more on that later)
- Event System (Filesystem watcher, logging, etc)
- Several finished API classes (Much more to come)
- http://api.pcbsd.org

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Current Progress (Client)

- SSL certificate creation (protected by local password)
- Allows initial auth and SSL key registration on server
- Multiple server connections (with groupings)
- Initial UI's to manage processes, beadm and iohyve

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Current Progress (Client)

- Multi-Platform Builds – BSD, Windows, OSX
- Import / Export (Settings and SSL cert)
- Local system connection