**LXCA Python CLI aka Lenovo xClarity PyCLI.**

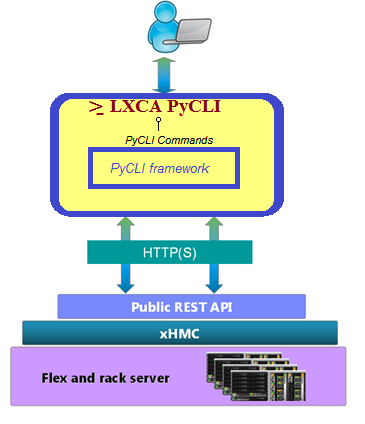
The Python Command Line tool for Lenovo XClarity Administrator (LXCA) is designed for users who wish to leverage Python-based scripts to do IT management automation in their environment.

The Python CLI cmdlets will wrap major LXCA exposed functions (Data Management, Config Patterns, FlexCat, Update, Event, etc) via REST API interface.

The Python CLI for LXCA will follow Python standards and best practices and will use python standard modules. This tool will also expose module which can be imported in Python script so that IT Administrator can create their own automation using it.

**Proposal**

**Architecture**

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**PyCLI Framework**

*PyCLI* framework will act as a base for writing LXCA Python CLI commands. All command will be based on and utilize the framework capabilities. Framework will use all standard and internal modules of python and will not create dependency on any external third party modules. This framework should provide following basic capabilities.

1. Connection and Session establishment, management, termination.
2. Base framework for writing new commands.
3. Input / Output Argument parsing.
4. REST command handling support.

