Xenon

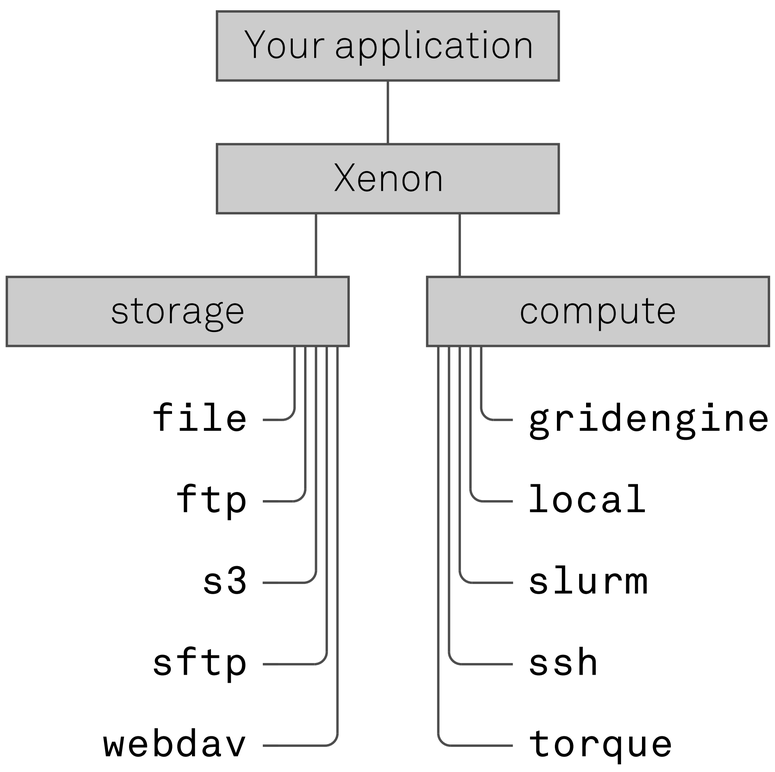
A uniform interface to distributed storage and compute resources

https://github.com/NLeSC/Xenon

What problem does Xenon solve?

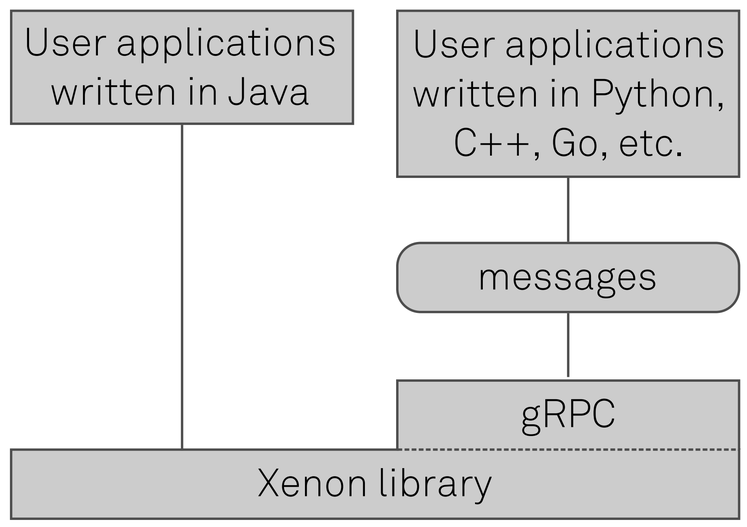
Applications that use remote storage and compute resources must include code for handling the interaction between the application and any remote resources it uses. That code is often quite specific to the resource, making it prohibitively expensive to switch to a different system if the need arises.

Xenon resolves the resultant 'lock in' by obfuscating the need for your application to handle the interactions with the remote resource in any detail.



How does Xenon work?

Xenon is an abstraction layer that sits between your application and the remote resource it uses. Xenon is written in Java, but is accessible from other languages (e.g. Python) through its gRPC interface.



Where has Xenon been applied?

metabolomics:	automatic identification of molecules from LC/MS
oceanography:	coupled fluid dynamics model and large eddy simulation models
astronomy:	coupled gas cloud model and star evolution models

Do the tutorial!
http://xenonrse2017.readthedocs.io