

Unified APIs and Expedient

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The case for a unified API

Learn once

Library reuse

Functionality definition

The case against a unified API

Difficult to create

Implicit heterogeneous APIs

Difficult to evolve

Barrier to entry

Embracing Heterogeneity



Pluggable platform

Aggregate Plugins \leftrightarrow User Interface Plugins

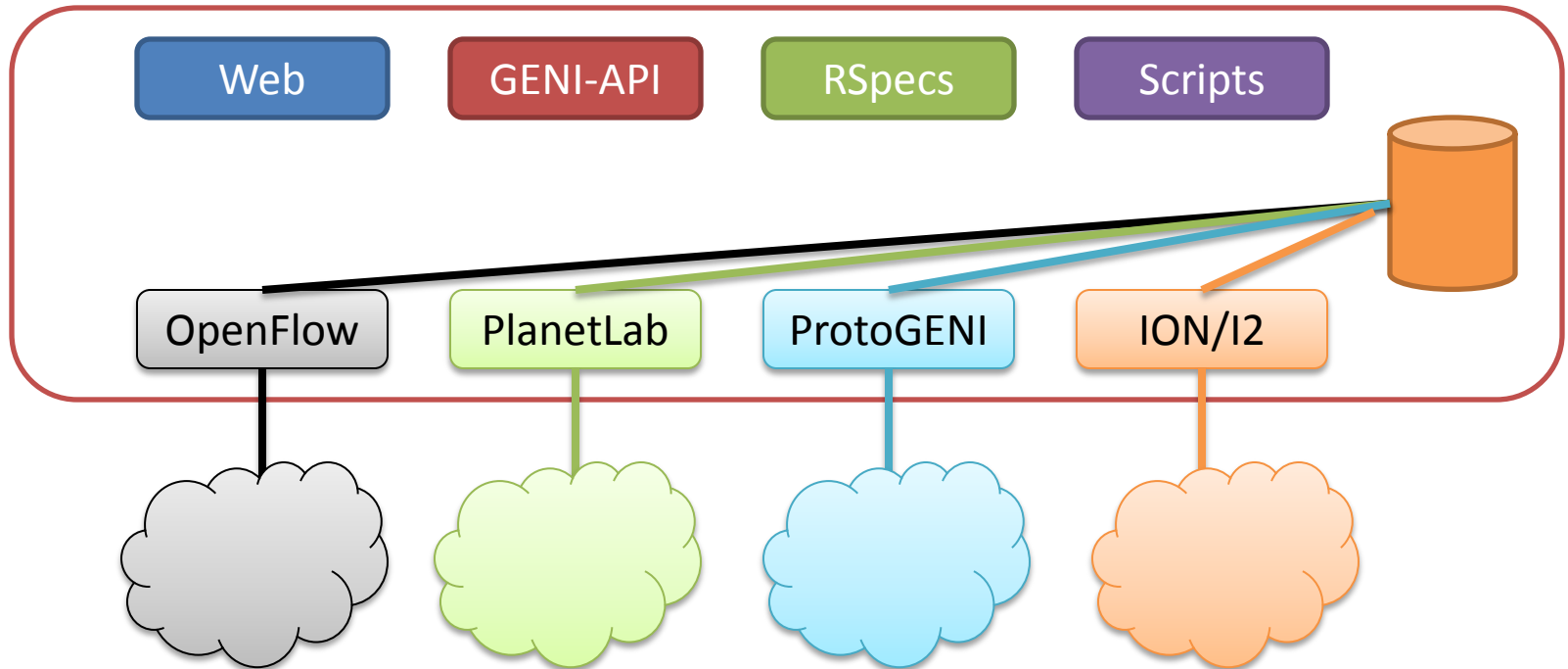
Build as a Web App

Scalable

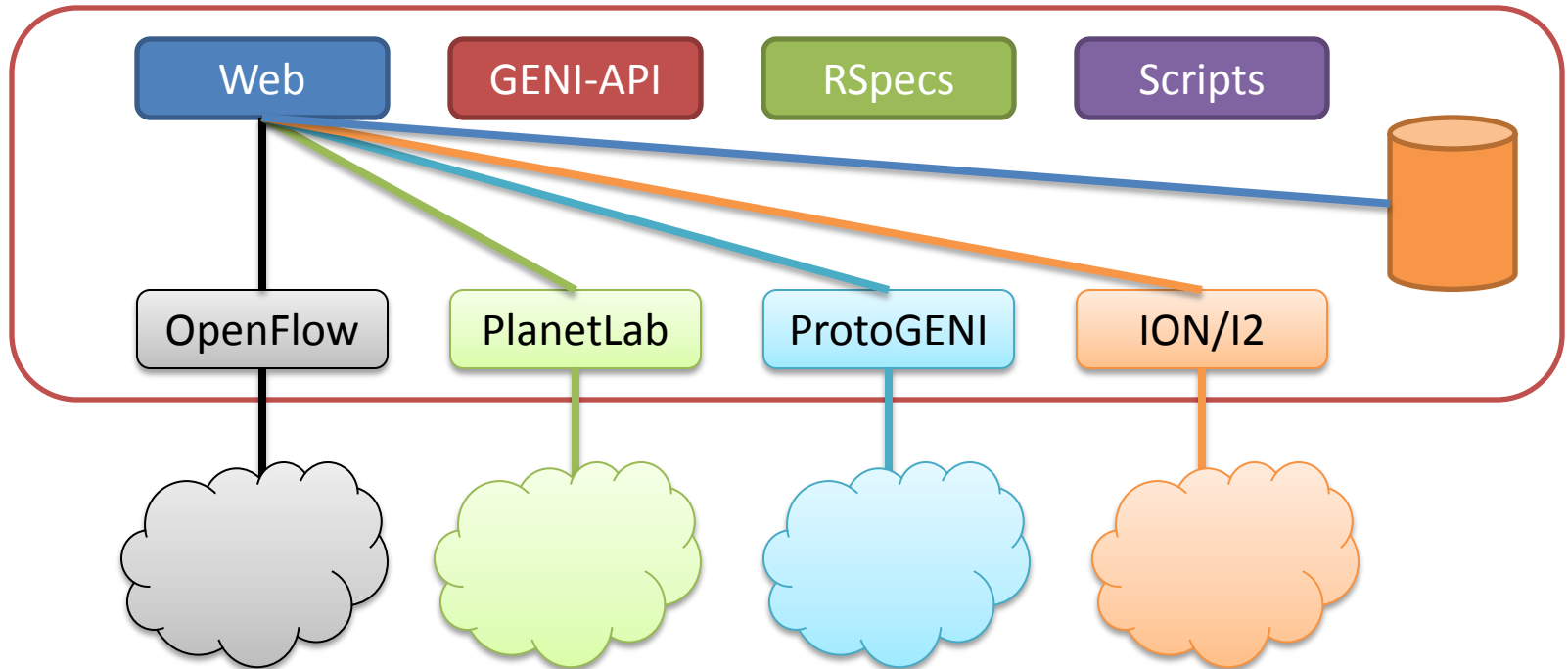
Convenient

Maintainable

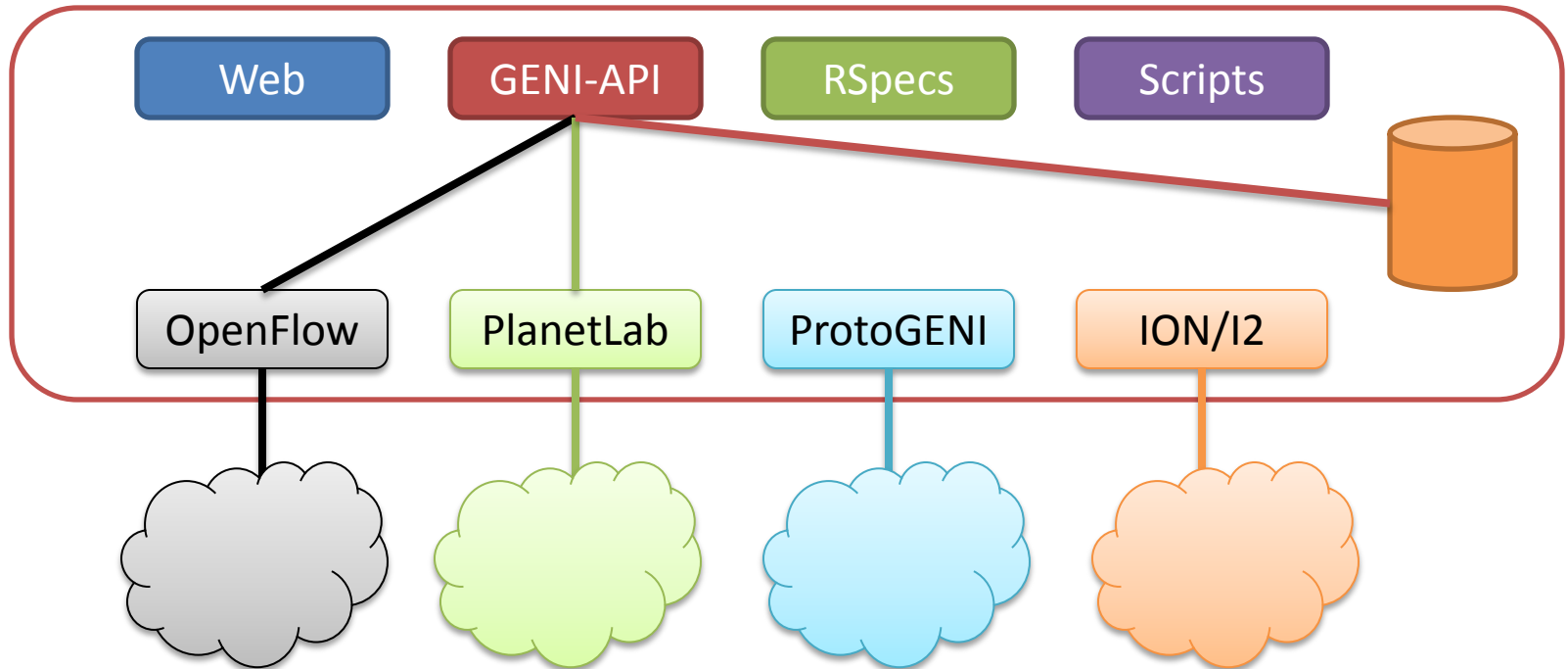
Expedient



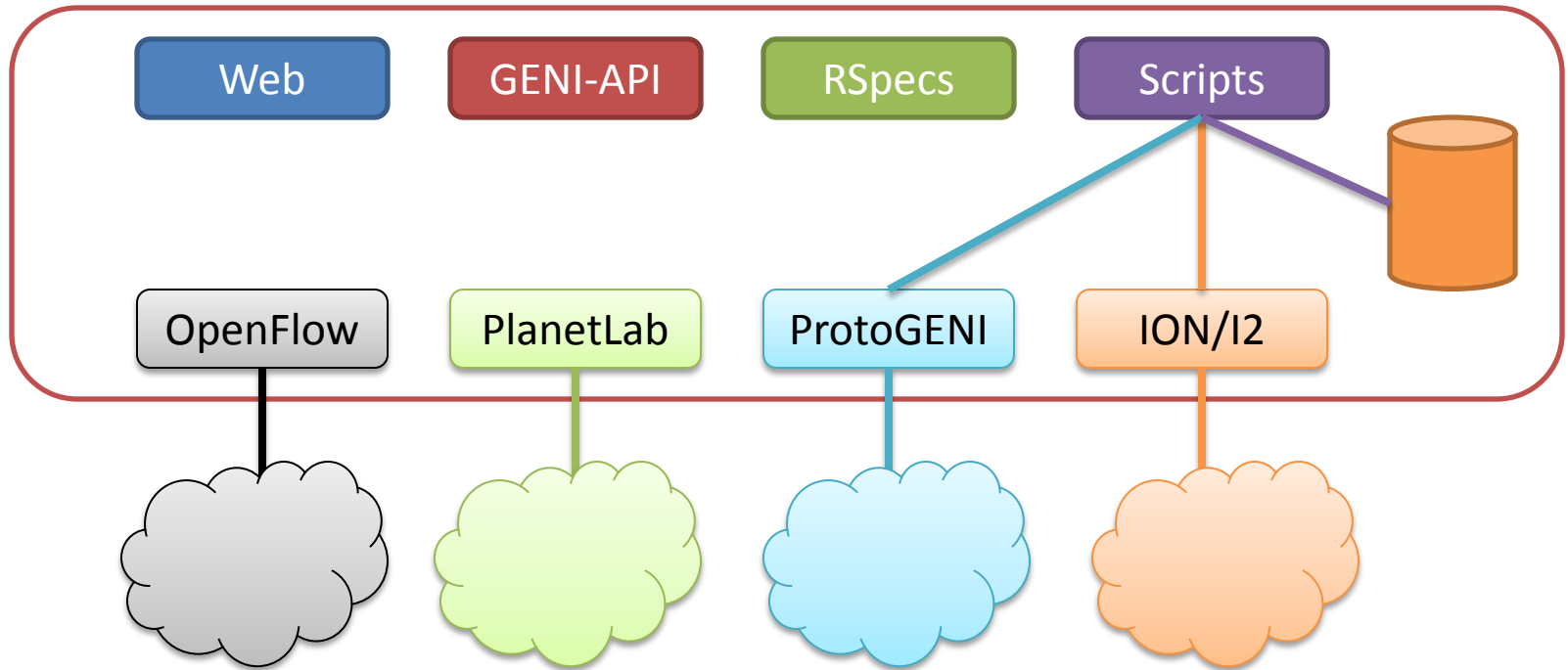
Expedient



Expedient



Expedient



Experiences Using the GENI-API

Coarse-grained security

Inconvenient API

Certificate Management Pain

SSL Woes

Demo