

INTRODUCTION

- We have Horizon, why would we need anything else?
- What does it take to build a platform for a service provider?
- How do we focus on user experience around OpenStack?
- OpenStack blueprint opportunities

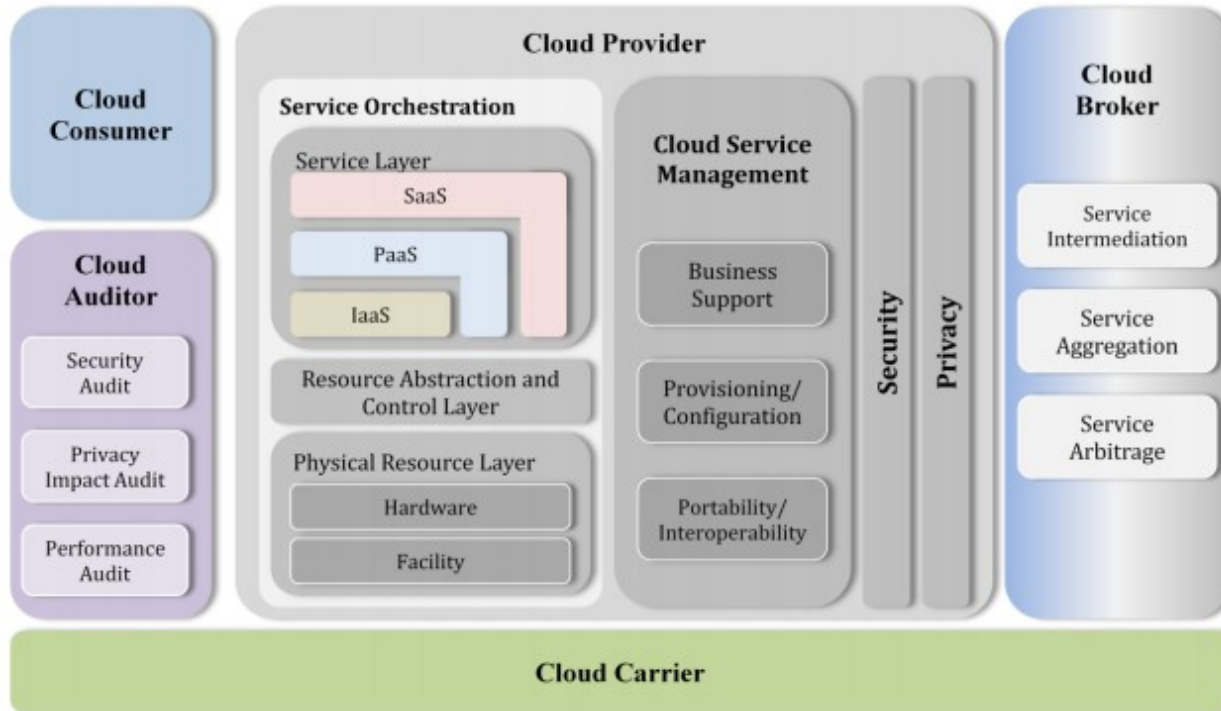


WE HAVE HORIZON, WHY DO WE NEED SOMETHING ELSE?

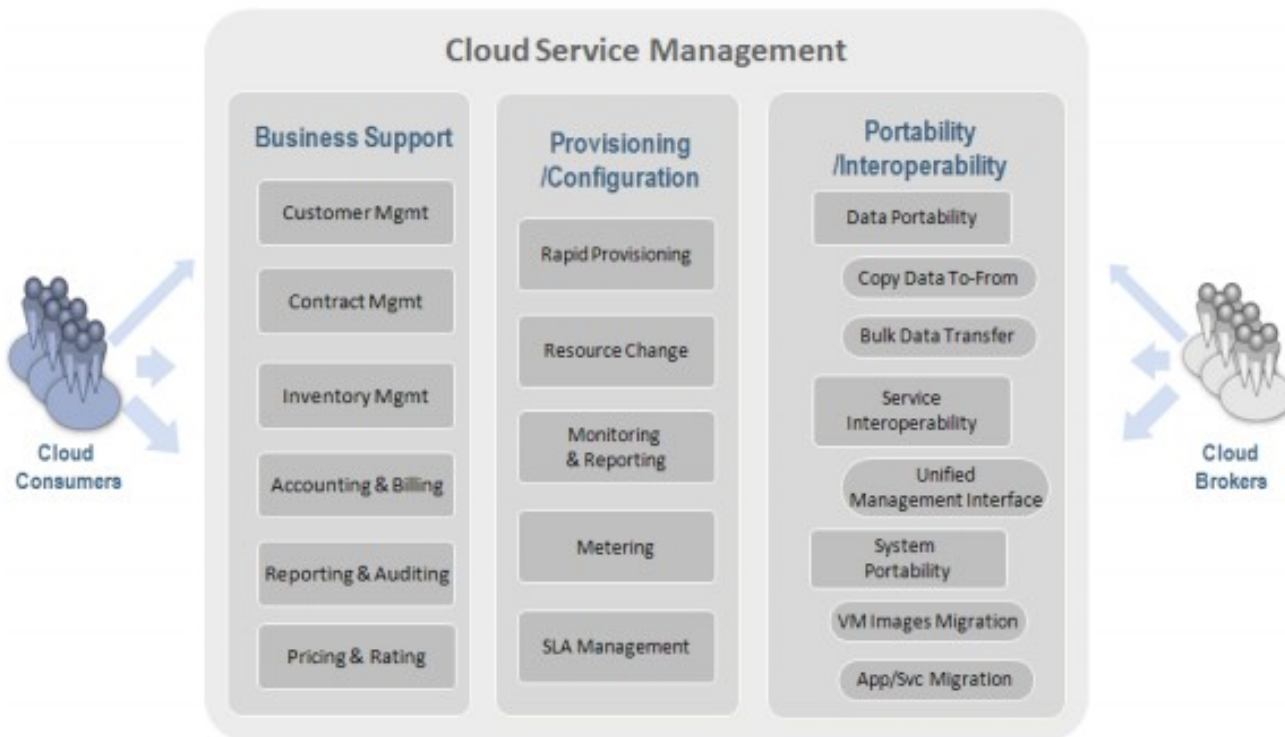
- Horizon is a consumption Portal
- It allows the consumption of resources but in terms of being an IT infrastructure it doesn't provide the integration required for enterprise management
- Leaves OpenStack as an island in the enterprise
- Gapped in terms of service provider requirements
- Management of consumption is gapped
- Operational tooling is missing



NIST CLOUD REFERENCE ARCHITECTURE



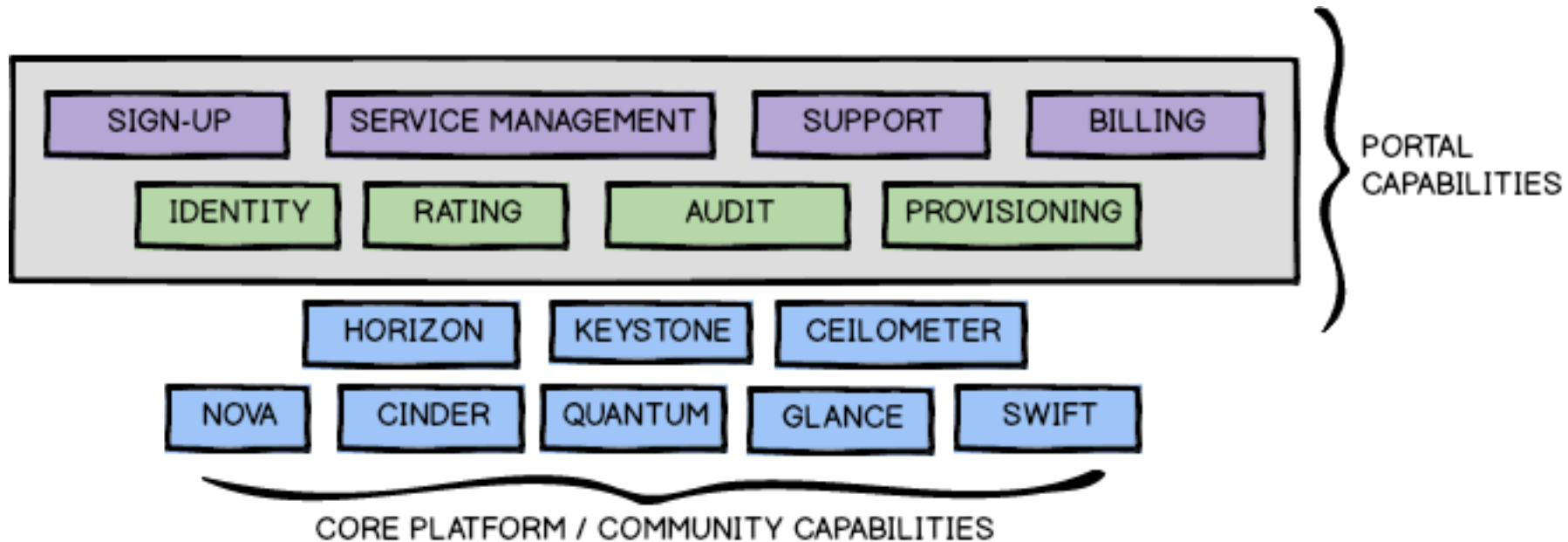
NIST CLOUD REFERENCE ARCHITECTURE (Cont.)



EXAMPLE OPENSTACK SERVICE PROVIDER ARCHITECTURE



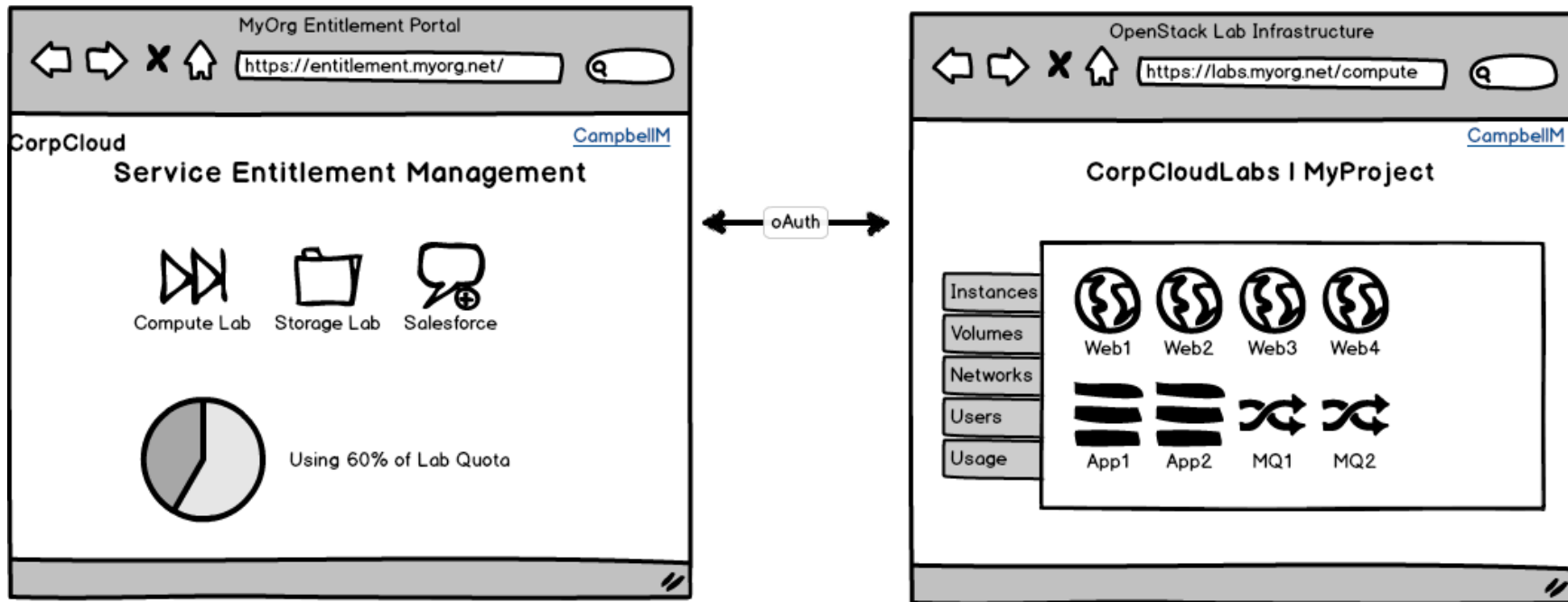
EXAMPLE OPENSTACK SERVICE PROVIDER ARCHITECTURE



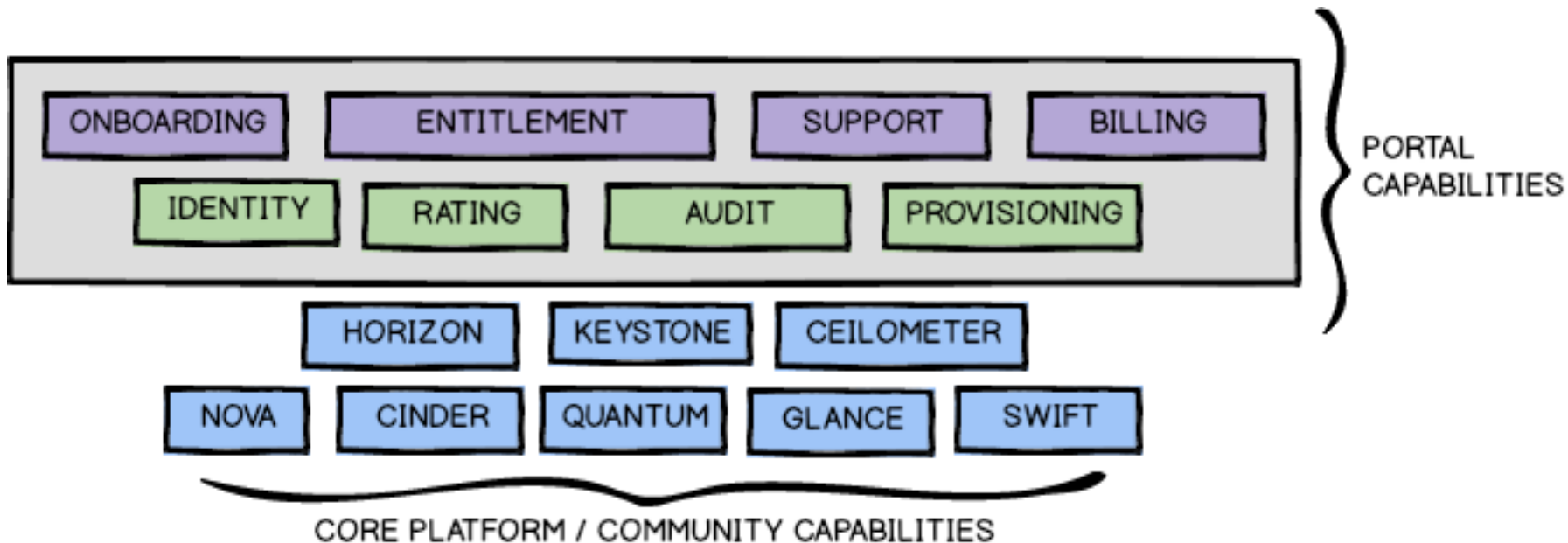
SERVICES DECOMPOSED

SIGN-UP	SERVICE MANAGEMENT	SUPPORT	BILLING
CATALOG	UPGRADES	TICKETING	INVOICING
LOGIN	DOWNGRADES	FAQ	TAX CALCULATION
ADDRESS VALIDATION	USER MANAGEMENT	FORUMS	FINANCE REPORTING
PAYMENT SETUP	PAYMENT CHANGE	WHITEPAPERS	SALES COMP
FRAUD CHECK	INVOICES	DOCUMENTATION	GENERAL LEDGER
CREDIT CHECK	RUN RATE		
COMPLIANCE CHECK	USAGE STATS		
T&Cs	AUDIT DATA		
	QUOTA MANAGEMENT		
	CANCELLATION		

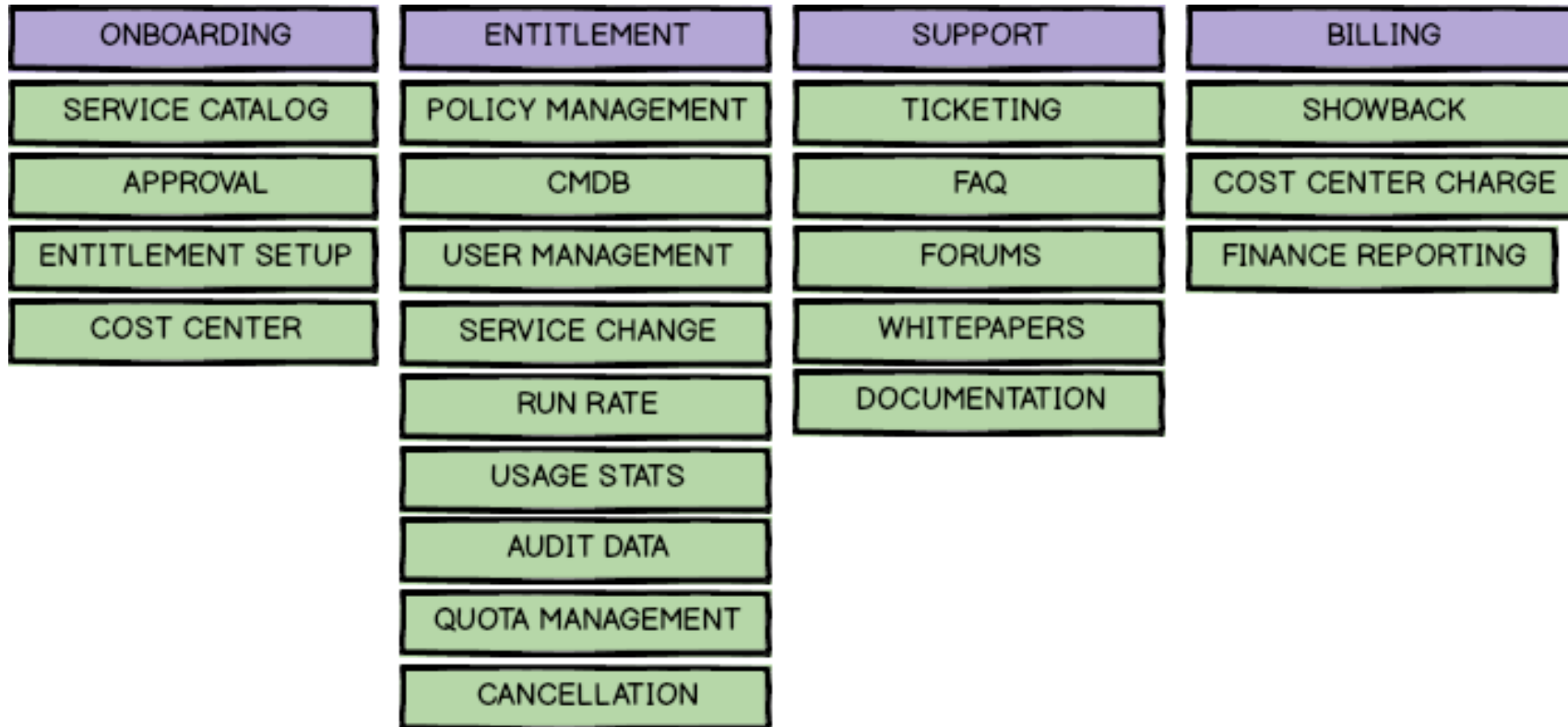
EXAMPLE OPENSTACK ENTERPRISE ARCHITECTURE



EXAMPLE OPENSTACK ENTERPRISE ARCHITECTURE



SERVICES DECOMPOSED



USER EXPERIENCE CONSIDERATIONS

- Consumption Operations
 - OpenStack (and RESTful) APIs can be chatty
 - Build extensions to provide shortcuts for common operations
 - Leverage caching under shortcuts for performance increase
- Supporting consumption
 - Provided as transparent cost management as possible
 - Leverage automation for customer facing tasks such as onboarding and service modification
 - Simplify user experience around common interactions



DISCUSSION / LINKS

- Campbell McNeill
 - me@campbellmcneill.com
 - [@campbellmcneill](#)
- Federation and oAuth
 - <http://bit.ly/17w63jH>
 - <http://bit.ly/154h8sy>
- NIST Cloud Reference Architecture
 - <http://1.usa.gov/10W097V>
- Dell
 - <http://www.dell.com/OpenStack>
 - <https://cloudconsole.dell.com/Online/Signup/Products>

