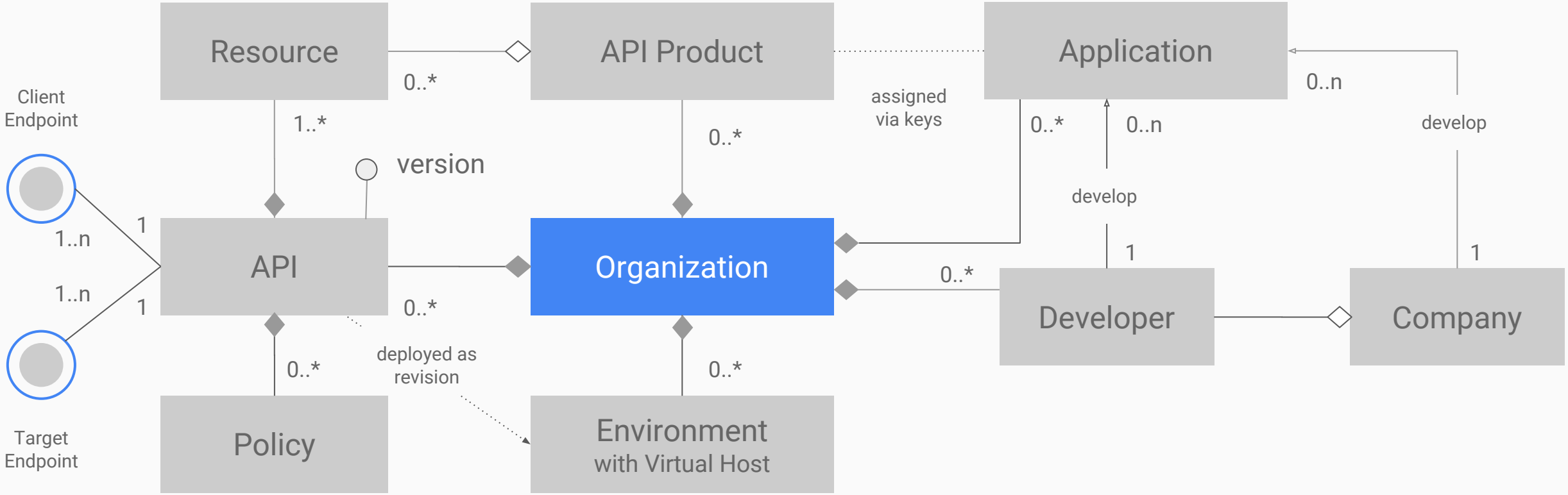
Google Cloud

Edge

Organization Entities and Environments

Organization Entities



Organizations and Environments

Organization

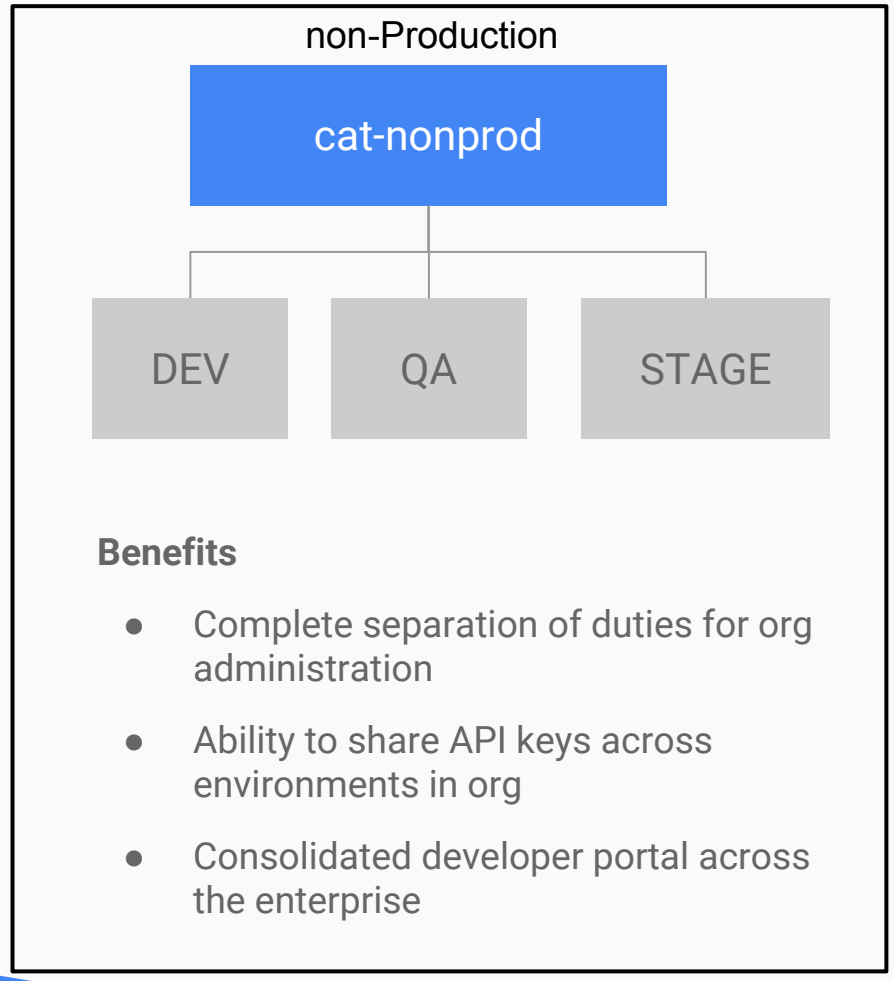
- Contains representations of all components including API proxies, API products, API packages, apps, and developers.
- Developer Portal is associated with the production organization.
- Logical separation of production and non-production entities, can be done using two organizations (non-prod, prod)
- Use of different Products for Production and Non Production Apps (see Product Strategies).
- Essential users will be given access to production environment (see RBAC Controls).

Environment

- Runtime execution context for the API proxies in an organization.
- API proxies must be deployed to an environment before it can be accessed.
- API proxies can be deployed to a single environment or to multiple environments (e.g. test, prod)
- Entities such as Key Value Maps, Caches and Vaults can be scoped to either a single environment, or across all environments within an organization
- Virtual Hosts are similar to Apache Virtual hosts and route traffic to environments based on ports and domain names.

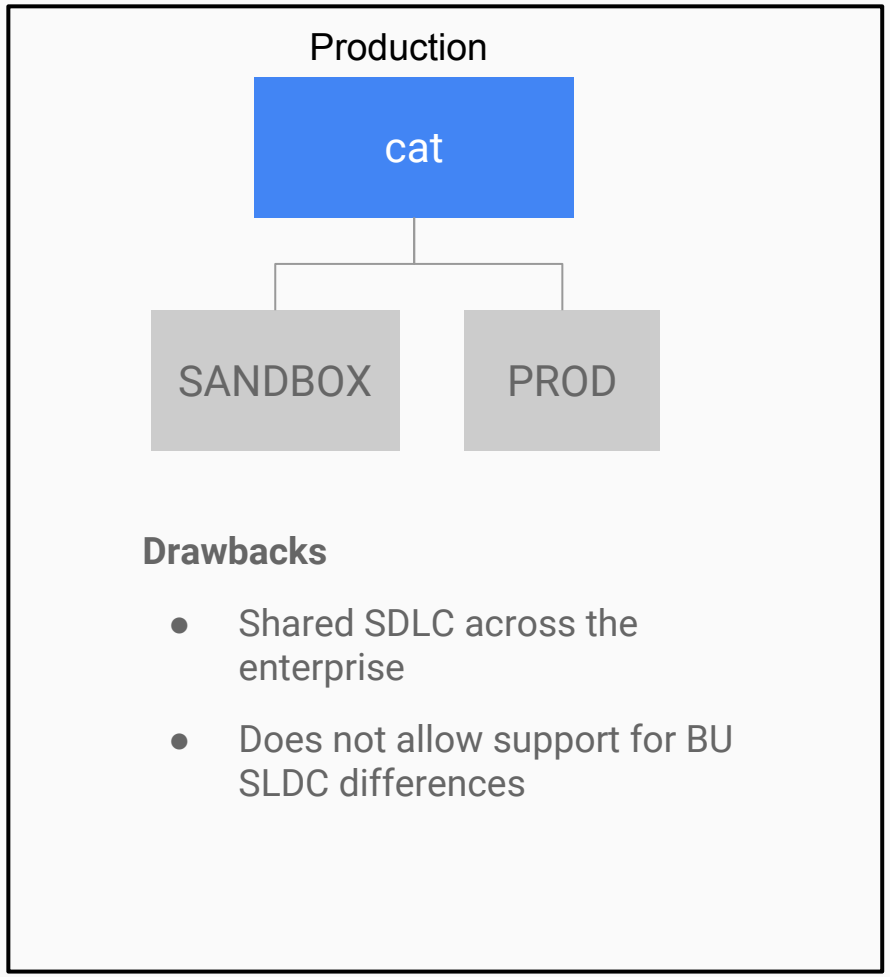
SDLC Based Organization / Environment Approach

Enterprise SDLC



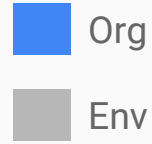
Benefits

- Complete separation of duties for org administration
- Ability to share API keys across environments in org
- Consolidated developer portal across the enterprise



Drawbacks

- Shared SDLC across the enterprise
- Does not allow support for BU SLDC differences



Example Organization - Environment Setup

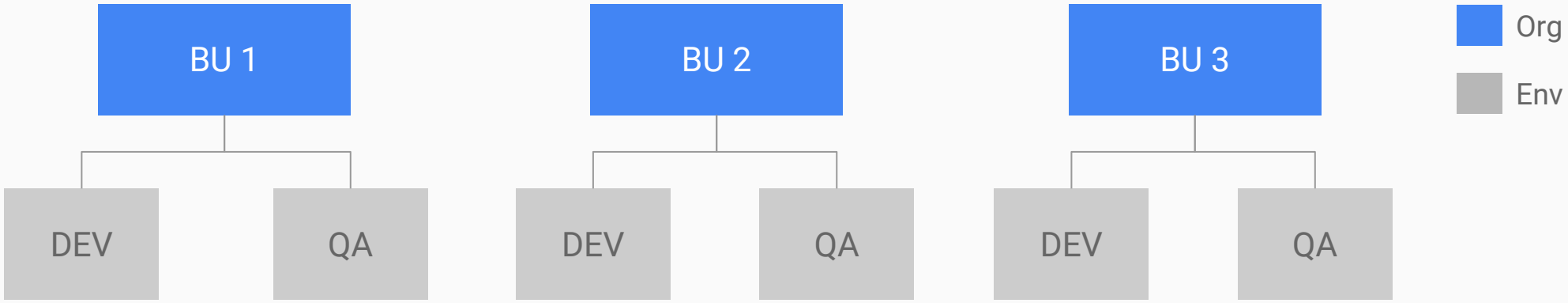
Organization	Environment	Apigee Target	Data	Type of testing
non-PROD	DEV	Mock Target (DEV)	Data and behavior from mocks	Partial Integration
non-PROD	QA	Actual Backend (QA/INTG)	Data and behavior from DEV build of target APIs	Full Integration
non-PROD	STAGE	Actual Backend (PERF)	Data and behavior from DEV or BAT build of target APIs	Acceptance
PROD	SANDBOX	Actual Backend (PROD)	Data and behavior from target APIs in production	Smoke*
PROD	PROD	Actual Backend (PROD)	Data and behavior from target APIs in production	Smoke

* Smoke testing: API bundle deployed properly, access all target endpoints correctly, certificates deployed correctly, configuration is correct.

Extras

Business Unit Organization / Environment Approaches

Organization per Business Unit



Benefits

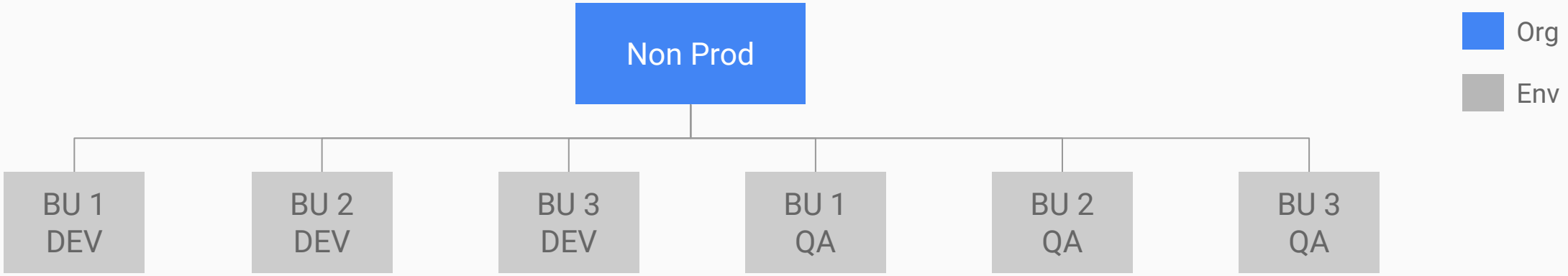
- Complete separation of duties for org administration.
- Ability to customize branding, registration and key approval process per business unit.

Drawbacks

- No consolidated developer portal across the enterprise (including API key request and management)
- Exposes business unit complexities to end consumers
- No consolidated analytics across the enterprise, no single view of a consumer

Business Unit Organization/Environment Approaches

Environment per Business Unit & SDLC Phase



Benefits

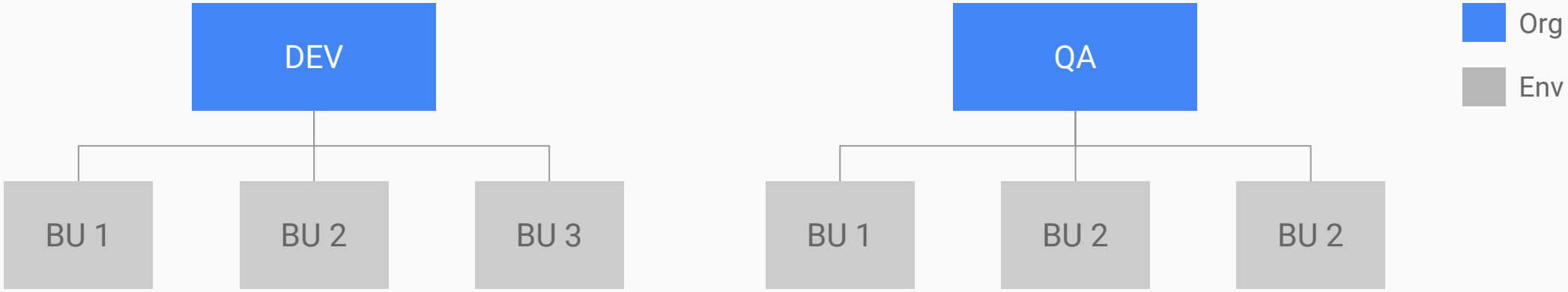
- Single portal for consumers.
- Ability to share API keys cross-BU.
- Consolidated analytics.

Drawbacks

- Potential for complex RBAC depending on requirements.
- Potential to exceed the recommended env per org limit.

Business Unit Organization/Environment Approaches

Environment per Business Unit & Orgs Aligned with SDLC



Benefits

- Single portal for consumers
- Ability to share API keys cross-BU
- Consolidated analytics

Drawbacks

- Potential for complex RBAC depending on requirements
- Requires syncing of SDLC phases cross-BU