

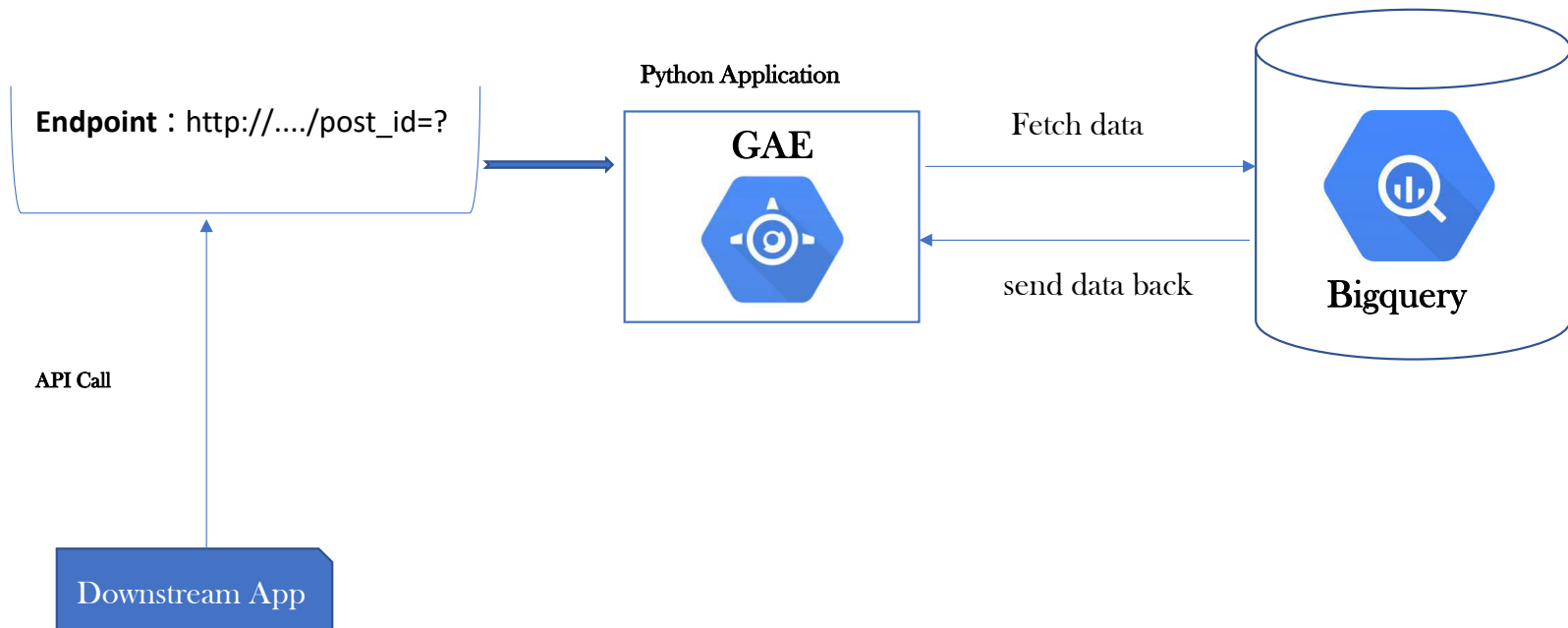


Google App Engine

- Compute Serverless Option in GCP
- Only Pay for infrastructure and usage time
- Supported runtimes : **Python,Java,Go,PHP & NodeJs**
- No maintenance overhead :
 - Provisioning
 - Scaling
 - Logging
 - Monitoring & diagnostics
 - Load balacing / Traffic splitting

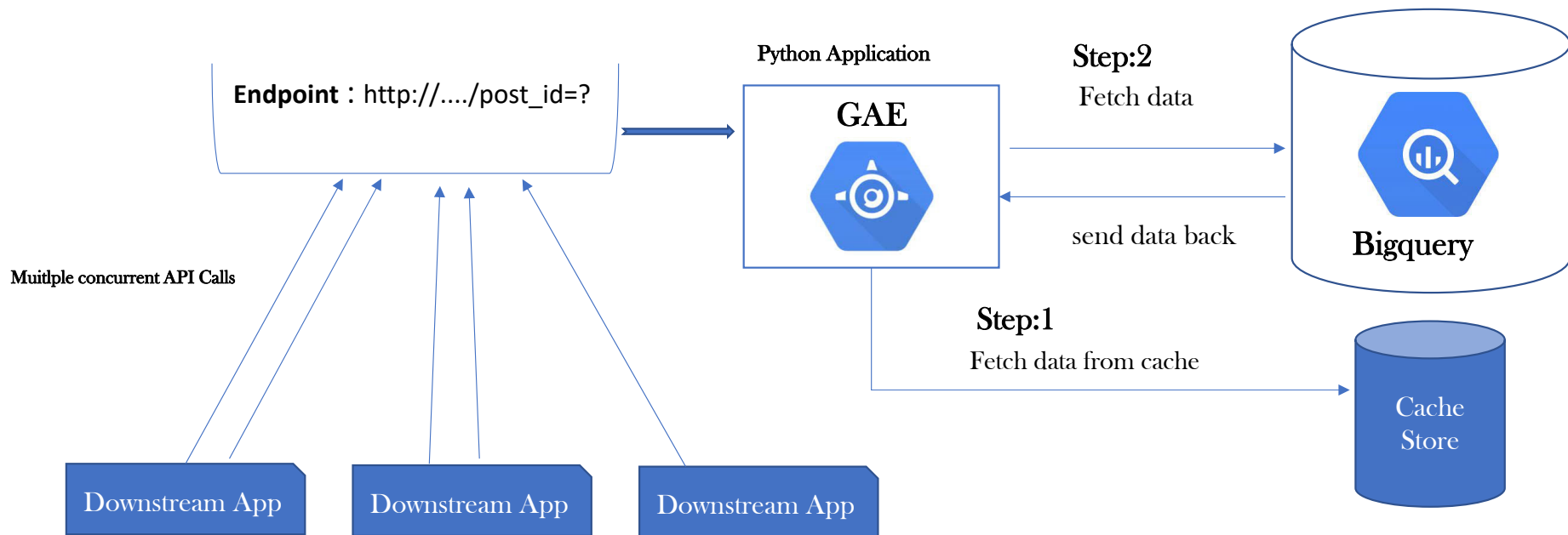


Google App Engine - Caching





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Google App Engine - Caching

- **Caching** - Is a mechanism to store a subset of data for faster data retrievals
- Few popular databases/datastores for caching :
 - Redis
 - Memcached
 - Ignite
- **Memcache** - In-memory caching mechanism for scalable applications on cloud
 - Distributed
 - Stores data “key-value” pair
- **Use cases :**
 - Speed up database operations
 - Avoid unnecessary querying from the data-warehouse (database)
 - In-frequently changing data which yields the same response over long periods of time
- Two types of memcache storage :
 - **Shared Cache** - Best effort basis , free of cost , no performance guarantee
 - **Dedicated Cache** - Charges per GB/Hour (\$0.06)



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STANDARD

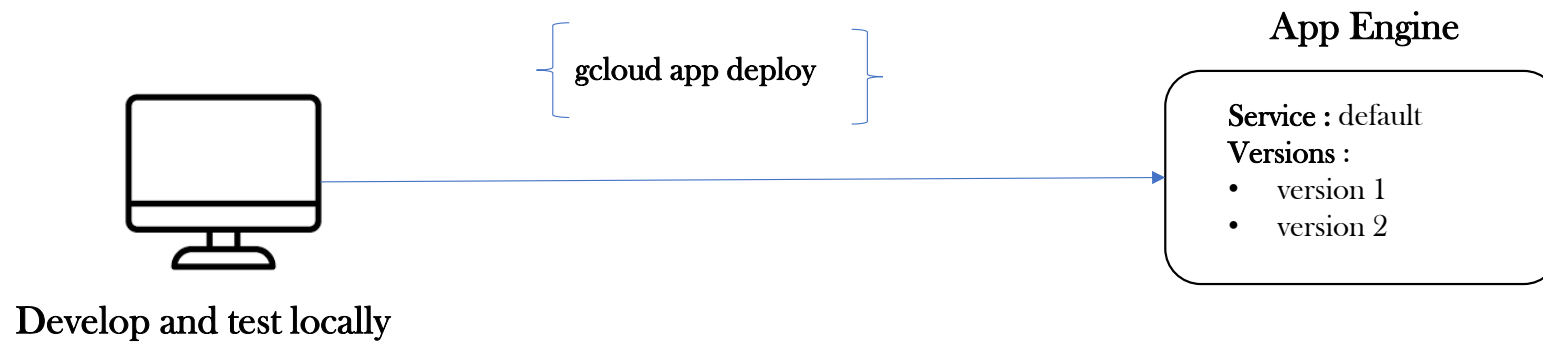
- Pre-configured Runtime versions
- Secure , Sandboxed & easy to deploy
- Supports specific versions of :
 - Python
 - Java
 - PHP
 - Node
 - Ruby
 - GO

FLEXIBLE

- Overcomes the runtime limitations of Standard Env
- Flexibility to customize the runtime versions
- Custom Docker Image
- Supports :
 - Python
 - Java
 - PHP
 - Node
 - Ruby
 - GO
 - .NET



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