Solution Architecture

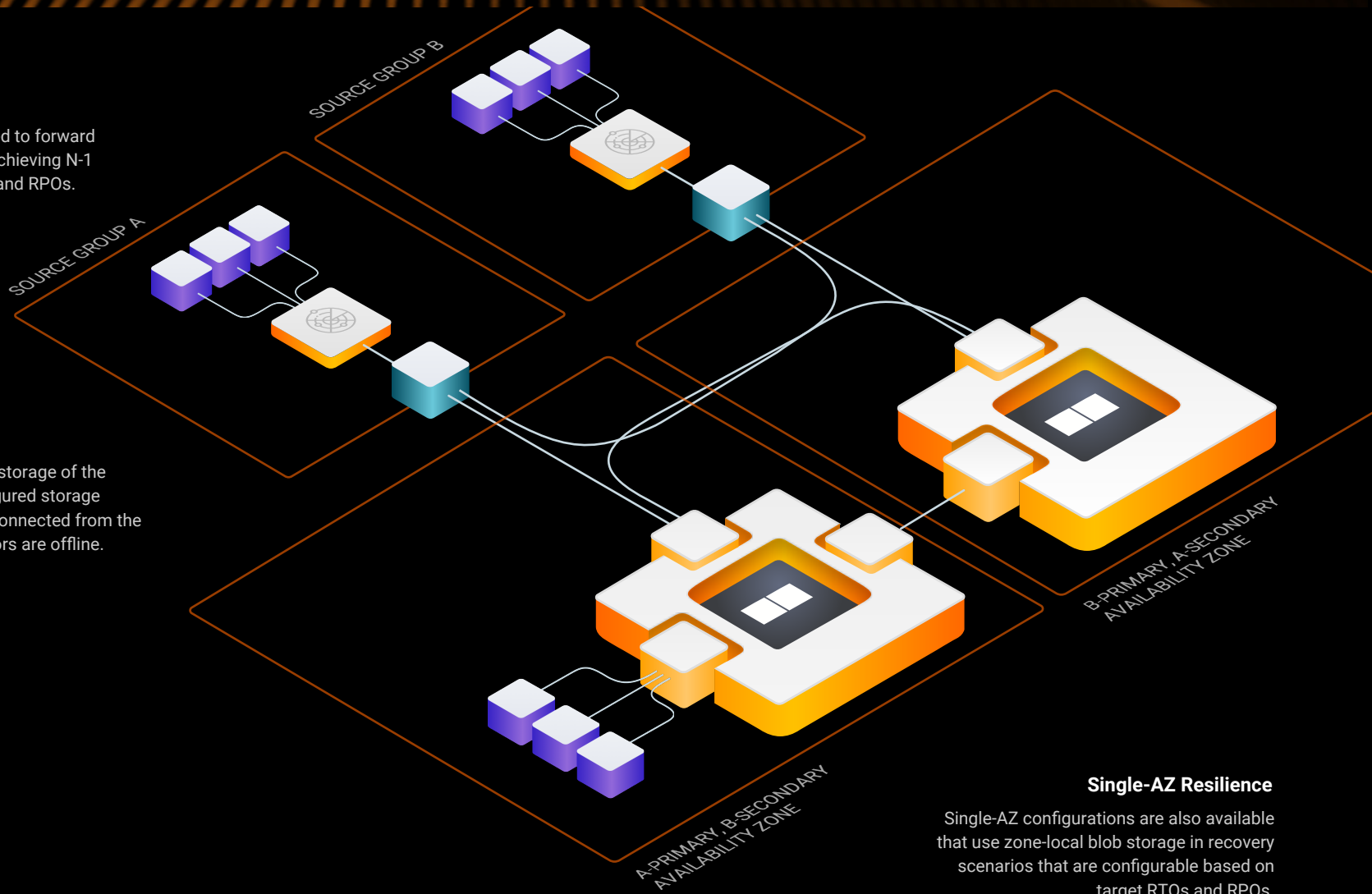
Armor's cloud-native approach enables easy use of scaling, resiliency, redundancy, and governance features built into the cloud.

Multi-AZ Configuration

Each source group can be configured to forward events to N+1 availability zones – achieving N-1 fault tolerance with real-time RTOs and RPOs.

Local Offline Caching

Local offline caching allows for the storage of the preservation of logs up to the configured storage ceiling should the forwarder be disconnected from the internet or all downstream processors are offline.



Single-AZ Resilience

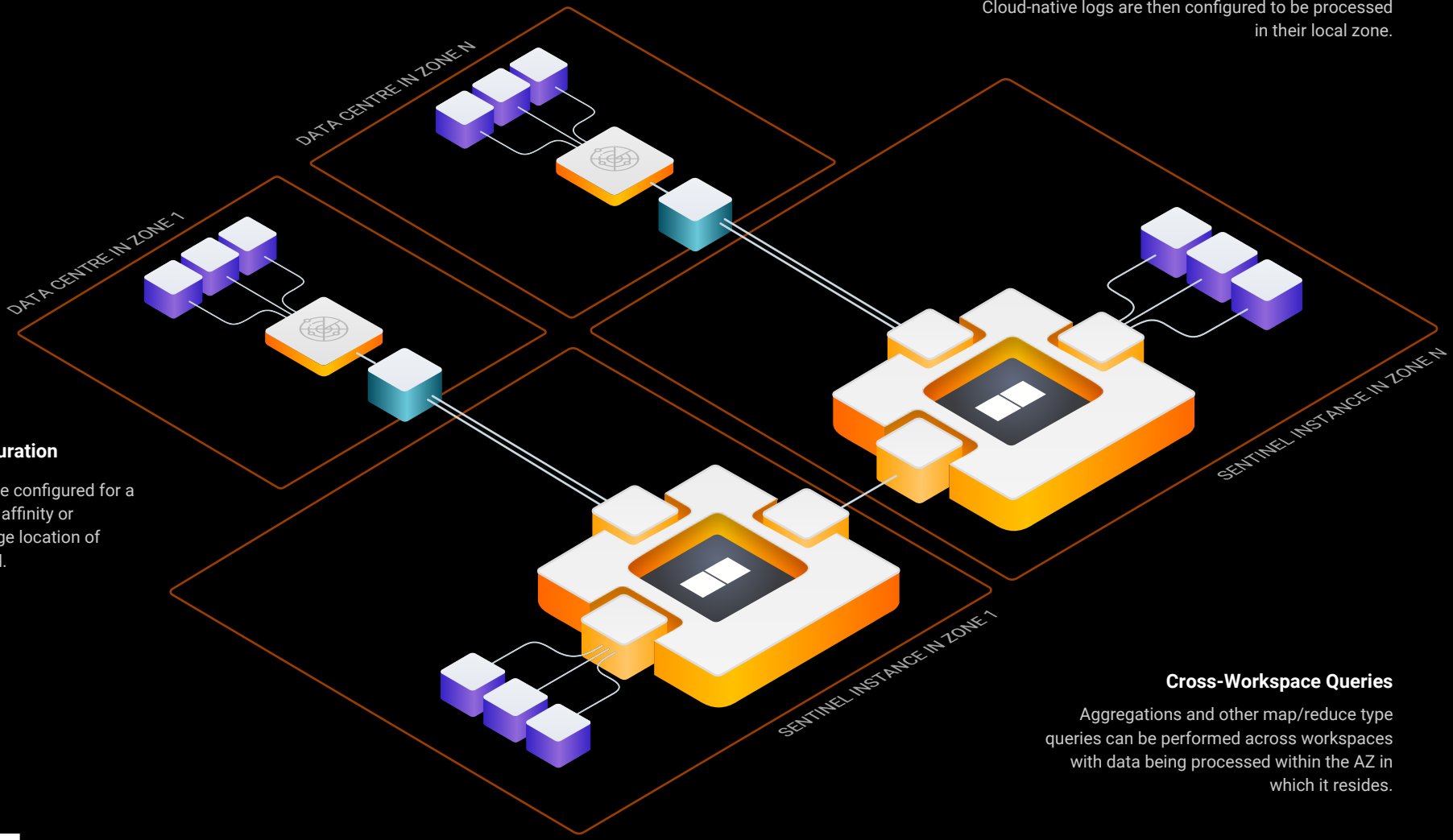
Single-AZ configurations are also available that use zone-local blob storage in recovery scenarios that are configurable based on target RTOs and RPOs.

ARMOR

Data Sovereignty Architecture

Cloud-Native Local Processing

Cloud-native logs are then configured to be processed in their local zone.



AZ-Affinity Configuration

Each forwarder can be configured for a specific downstream affinity or restriction final storage location of data being processed.

Cross-Workspace Queries

Aggregations and other map/reduce type queries can be performed across workspaces with data being processed within the AZ in which it resides.

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High-Availability Kubernetes Cluster

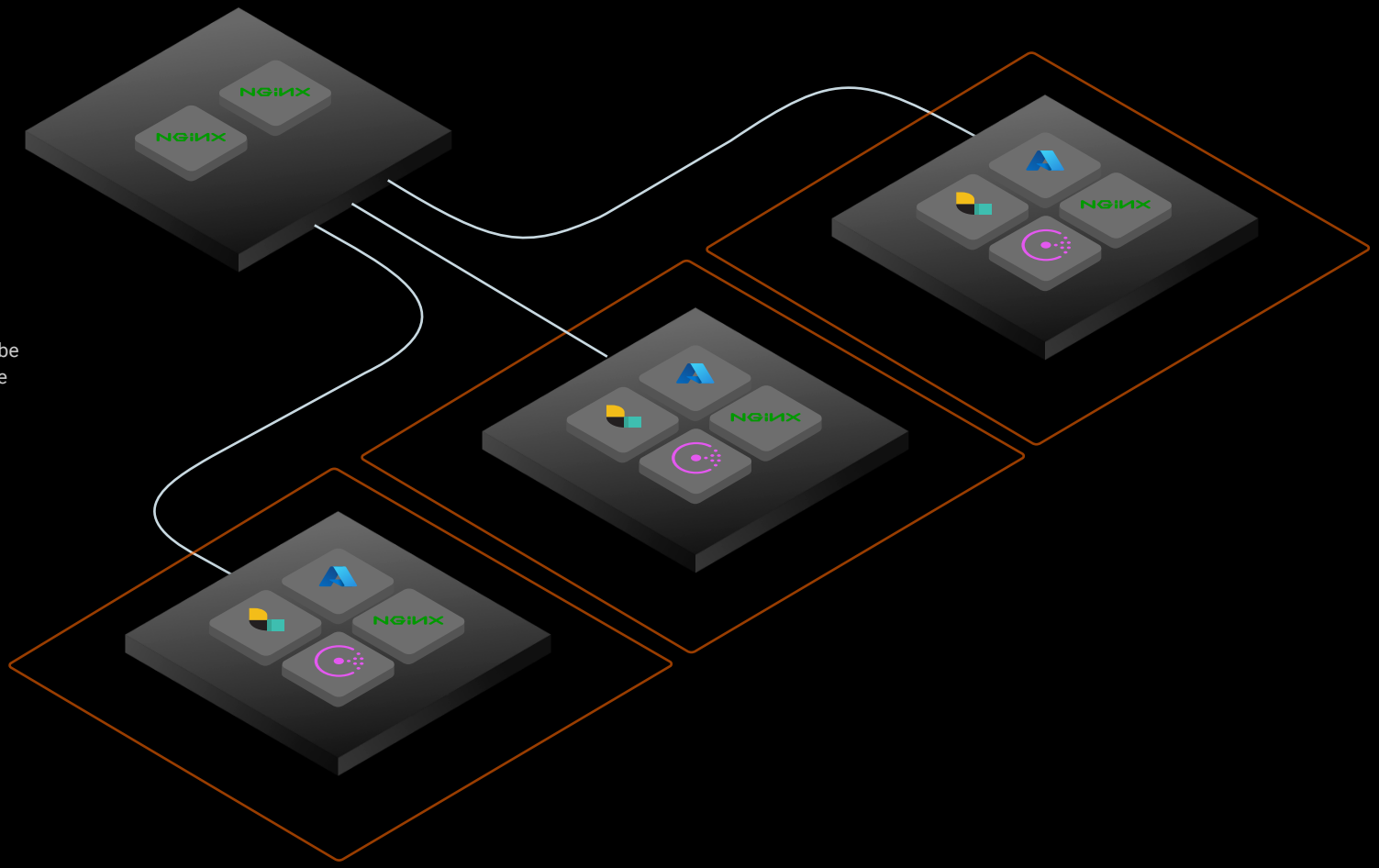
High-Availability Load Balancer Cluster

The Kubernetes cluster we deploy to each customer environment is fronted by a service ingest powered by a highly-available, redundant pair of NGINX load balancers.

N+1 Scale Kubernetes Pods

Our log ingestion and processing stack is designed to be multi-threaded to allow an N+1 scaling model to handle billions of events and petabytes of volume per day.

By default, 3 Kubernetes hosts in separate availability zones will be provisioned – more will be added either manually or using auto-scaling (if enabled).



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