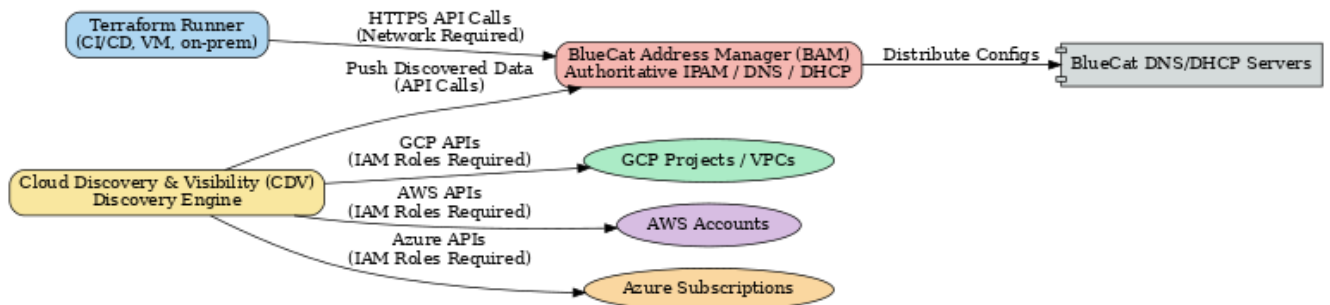# BlueCat BAM + CDV Architecture

Making the Case for Unified IPAM in GCP + Multi-Cloud

Architecture Diagram

Why BAM Alone is Not Enough

- BAM is the authoritative source of truth for IPAM, DNS, DHCP.
- Can reserve subnets statically via Terraform or API.
- BUT: BAM is blind to dynamically created cloud resources.
- Cannot detect drift, shadow IT, or IP conflicts created outside Terraform.
- Result: Limited visibility, potential compliance and security gaps.

How CDV Adds Value

- Discovers VMs, subnets, and IPs in GCP, AWS, Azure via APIs.
- Feeds real-time cloud data back into BAM.
- Identifies drift between planned (Terraform/BAM) and actual (cloud).
- Provides governance: detects rogue or non-compliant resources.
- Enables a true single source of truth across hybrid & multi-cloud.

The Strong Case for BAM + CDV

- BAM controls planned allocations, but CDV ensures visibility of actual usage.
- Together they deliver:
  - Risk mitigation (avoid IP conflicts and outages).
  - Operational efficiency (less manual reconciliation).
  - Governance & compliance (audit-ready, detects shadow IT).
  - Unified management (single pane of glass for on-prem + cloud).
- Bottom line: BAM + CDV = Control + Visibility.