





- Distinguished Guest Lecturer, Adjunct Professor, and Tech Panelist
- Conference Organizer (EuroPython, GeoPython, PyCon*, etc.)
- Represented India at reputed International Hackathons
- Deep Learning Researcher | Publications at International Journals
- ALL STACK DEVELOPER
- Mentor

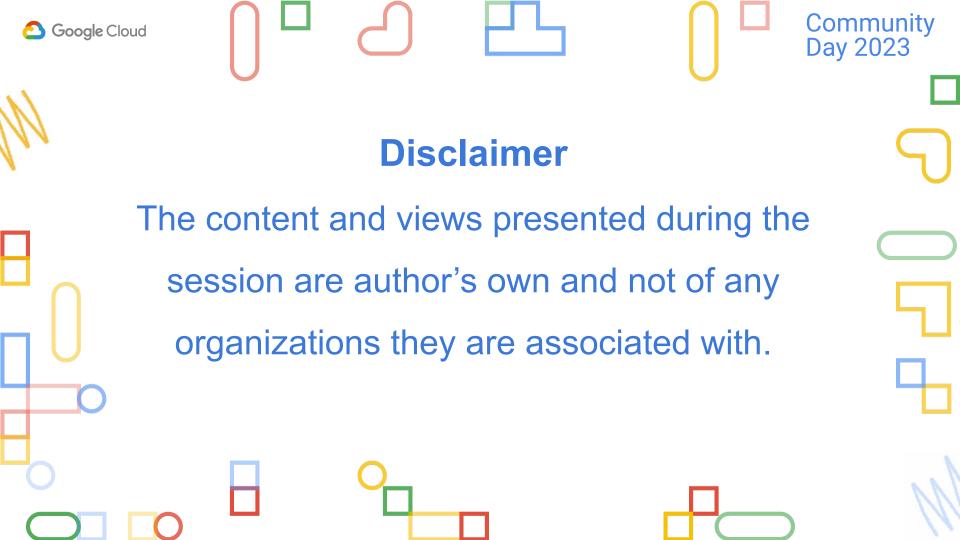






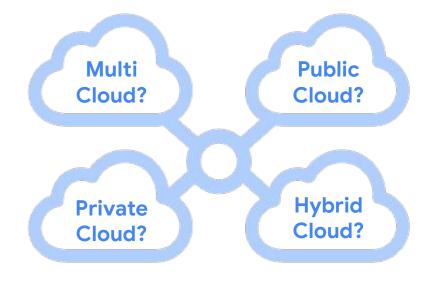








The **Buzzwords**











What are Multi/Hybrid Deployments?

- Typically involve connecting two or more distinct infrastructure environments or regions to address a specific technical or operational need.
- The common scenarios for hybrid deployment are Multi-Cloud Deployments and Fronting On-premise Data.
- The key concerns while designing hybrid deployments are:
 - Hybrid Network Connectivity with Low Latency
 - High Availability and Disaster Recovery
 - Network Security
 - Data Residency and Exchange









Why Multi/Hybrid Deployments?

- Digital Transformation and Innovation
- Seamless Operations and Scalability
- Overcome Overprovisioning/Underprovisioning Challenges
- Cost Efficiency and CapEx Debatable?
- Security, Compliance, and Regulations
 - Data Localization
- High Availability, Disaster Recovery, and Business Continuity
- Optimization and Vendor Lock-In
- Business Resiliency







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Enter the Real World Scenarios and Concepts

*[Google Cloud Only; Not Google Workspace]



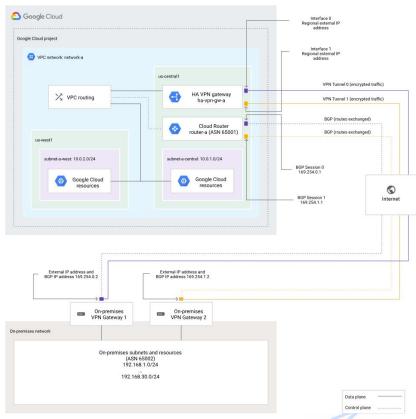


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Drivers

- **Low Cost**
- **Low Bandwidth**
- **Encryption of**
 - **Network Traffic**
- Okay to Route over Internet

HA VPN





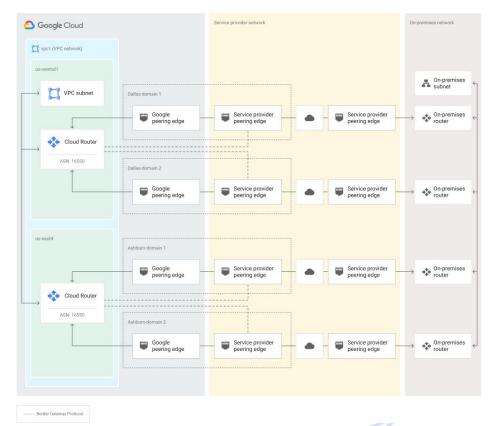


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Drivers

- Enterprise-Grade
- Med. Bandwidth
 - 50 Mbps to 50 Gbps per VLAN Attach.
- No Encryption of Network Traffic
- Route Privately
- No CoLo FacilityNearby
- Okay to go with Partner Services

Partner Interconnect





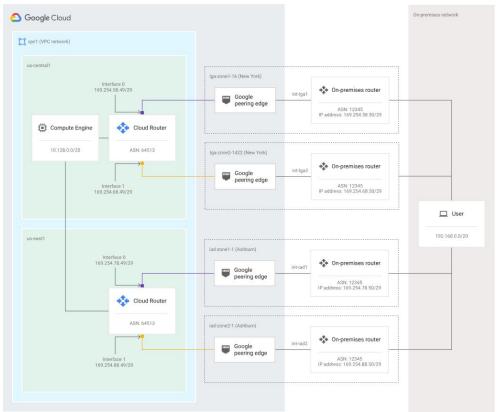


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Drivers

- **Enterprise-Grade**
- **High Bandwidth**
 - 10 Gbps to 100 Gbps per Circuit
- No Encryption of **Network Traffic**
- **Route Privately**
- Routing **Equipment in CoLo**

Dedicated Interconnect





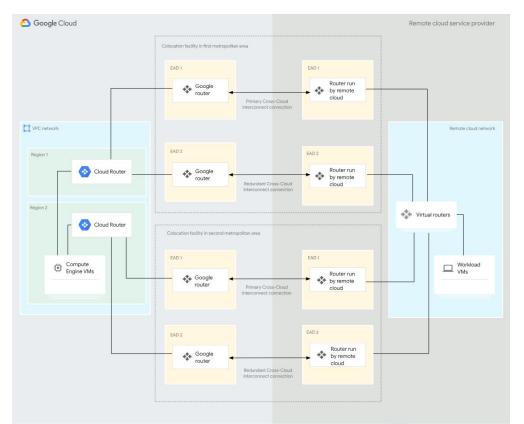




Drivers

- Enterprise-Grade
- High Bandwidth
 - 10 Gbps to 100 Gbps per Circuit
- No Encryption of Network Traffic
- Route Privately
- Dedicated Physical
 Link(s) with other
 Cloud Providers

Cross-Cloud Interconnect



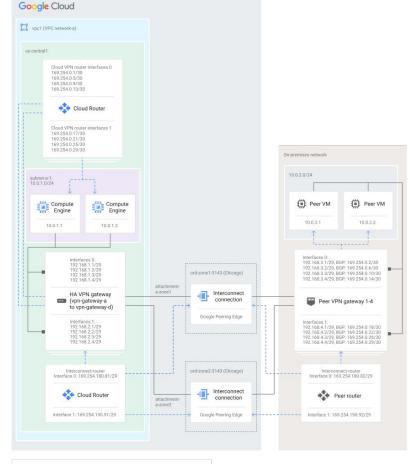


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Drivers

- Enterprise-Grade
- High Bandwidth
- Encryption of Network Traffic
- Route Privately
- Connect with
 On-Premises or

other Cloud Providers HA VPN over Cloud Interconnect







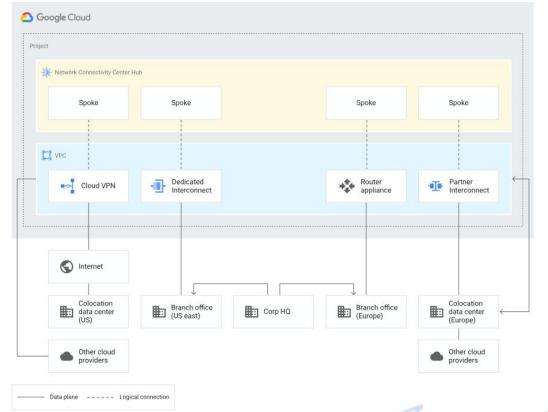


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Drivers

- Centralized
 Connectivity
 Model; a.k.a. Hub
- Communication of Spokes via Hub
- Self-Managed
 Router Appliance
 (Peered with
 Cloud Router)
 Possible

Network Connectivity Center









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#GoogleCloud #CCD
#Networking
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