





- 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

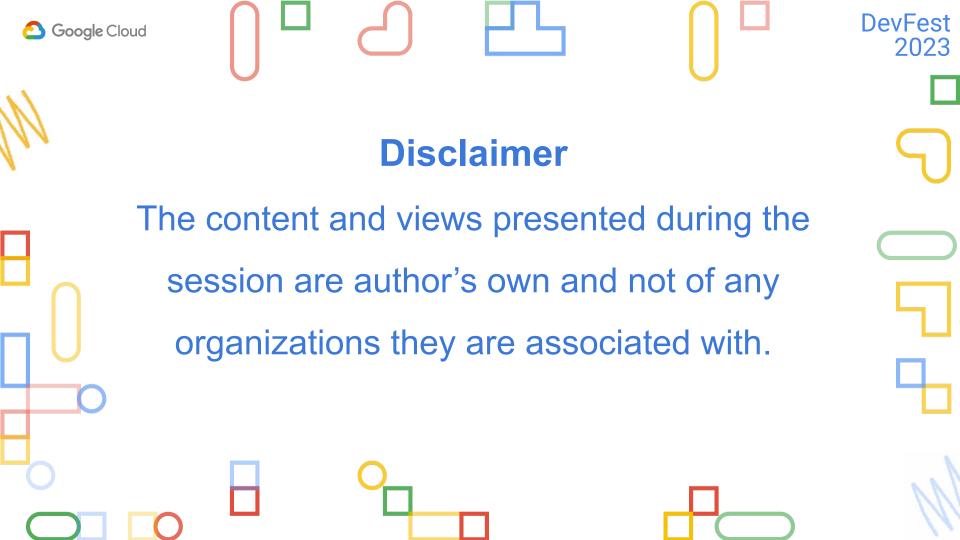


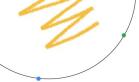




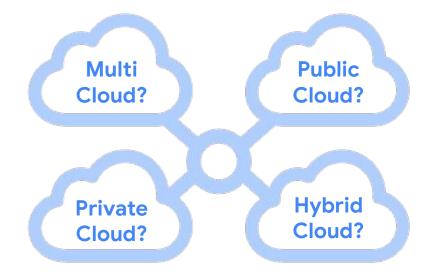






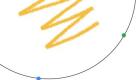


The **Buzzwords**









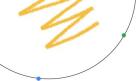
What are Multi/Hybrid Deployments?

- 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 focus areas while designing hybrid deployments are:
 - Hybrid Network Connectivity with Low Latency
 - High Availability and Disaster Recovery
 - Network Security
 - Data Residency and Data/Payload Exchange









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]

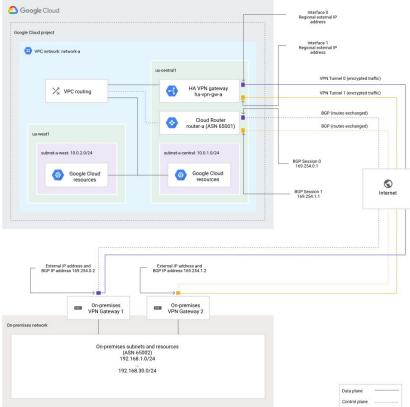


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Drivers

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

HA VPN





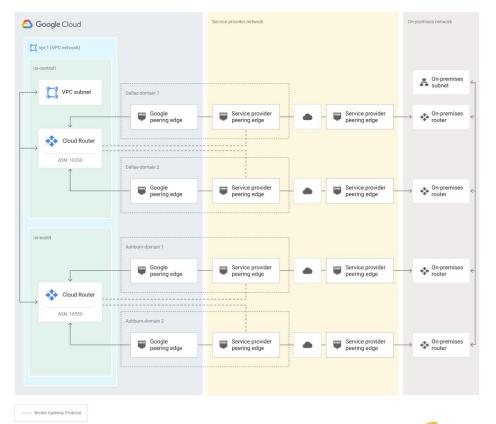


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Drivers

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

Partner Interconnect





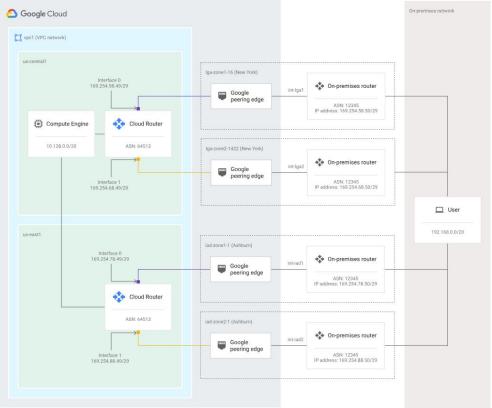


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Drivers

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

Dedicated Interconnect



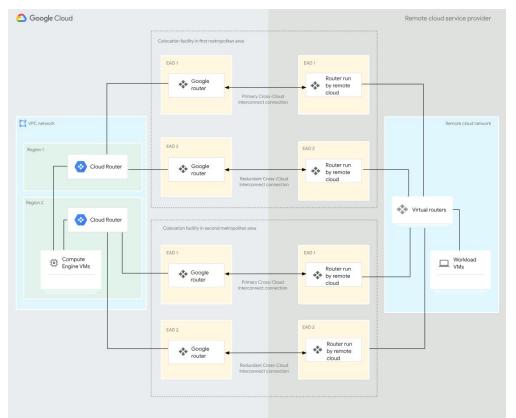




Drivers

- 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







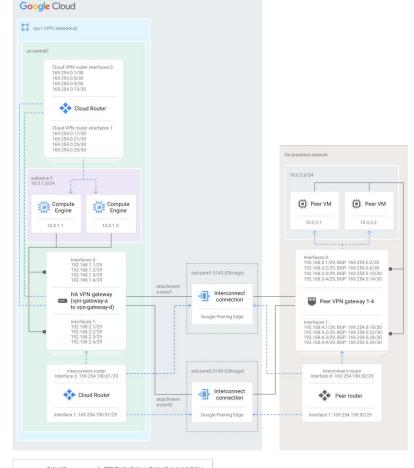
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Drivers

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

other Cloud **Providers**

HA VPN over Cloud Interconnect









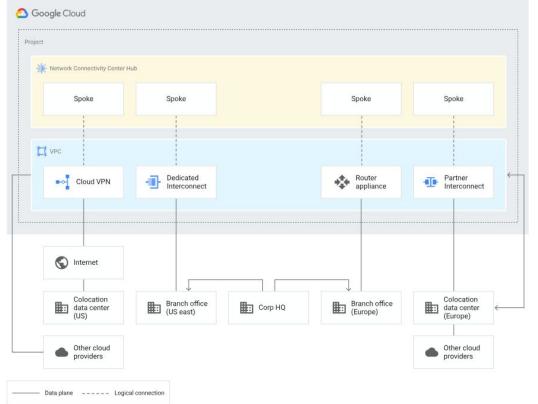


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Drivers

- 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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#GDG #GoogleCloud
#Networking #Masterclass
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