

# RSA® Conference 2019

San Francisco | March 4–8 | Moscone Center

The logo consists of the word "BETTER." in a bold, sans-serif font. The letters are white with a subtle gray shadow. A large, dynamic network of thin, curved lines in shades of blue, green, yellow, and orange radiates from behind the letters, creating a sense of motion and connectivity.

BETTER.

SESSION ID: CSV-R09

## Zero-Trust Networking Is Facilitating Cloud Transformation

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#RSAC

# Three Questions to Determine Where You Are in Your Cloud Journey

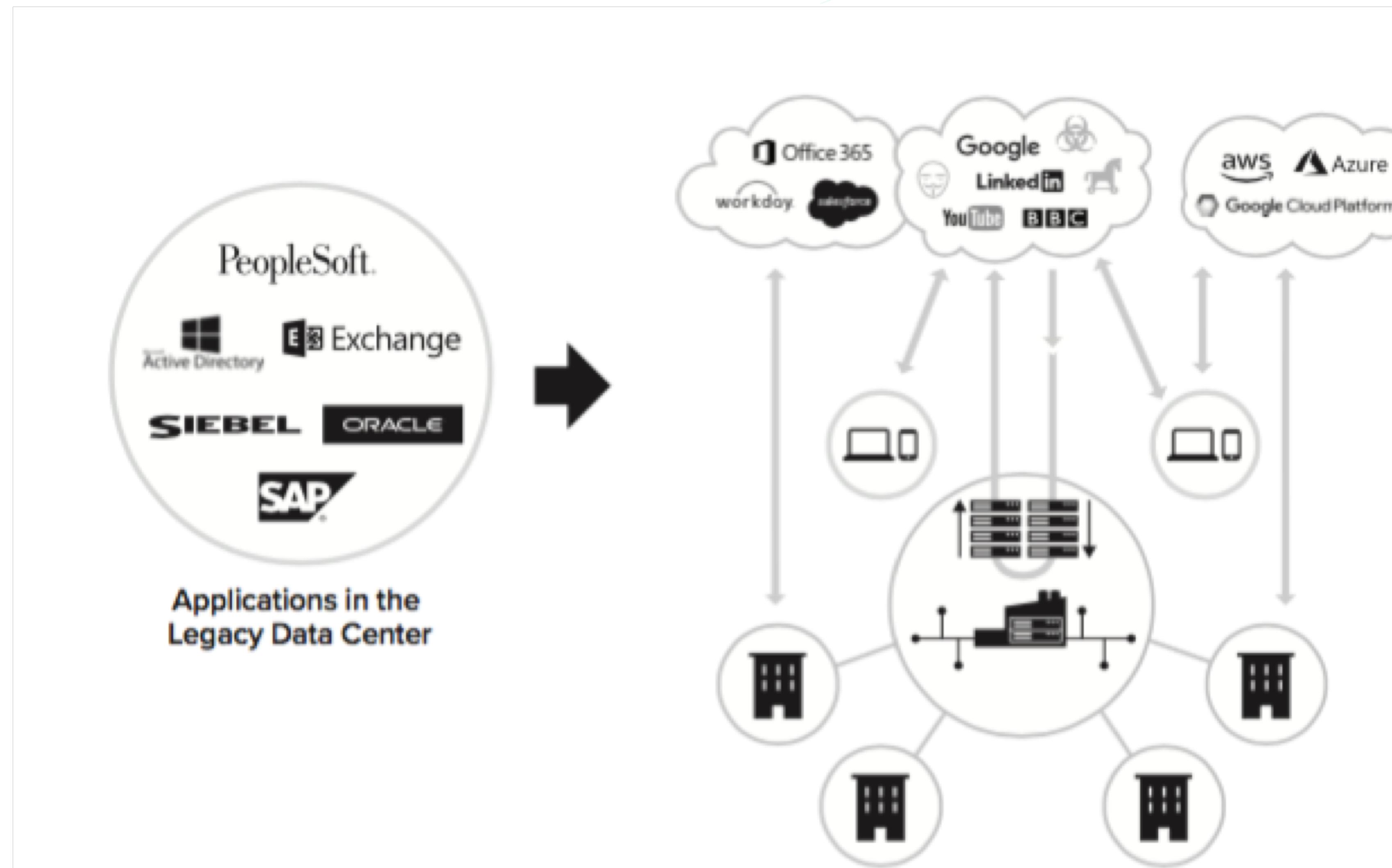
- Do you use Software as a Service? (Salesforce, Workday, Net Suite?)
- Have you transitioned to Office 365?
- Do you use MPLS and hub-and-spoke?



## Application Transformation

The cloud is the new corporate data center

# Applications are moving to the cloud



The Cloud becomes the New Data Center

# The Three Stages of Application Transformation

## Stage 1. Software as a Service

### Advantages:

- Low to zero development cost
- No software license
- No server configuration or management
- Easy deployment
- Lower Total Cost of Ownership



# The Three Stages of Application Transformation

## Stage 2. Refactoring

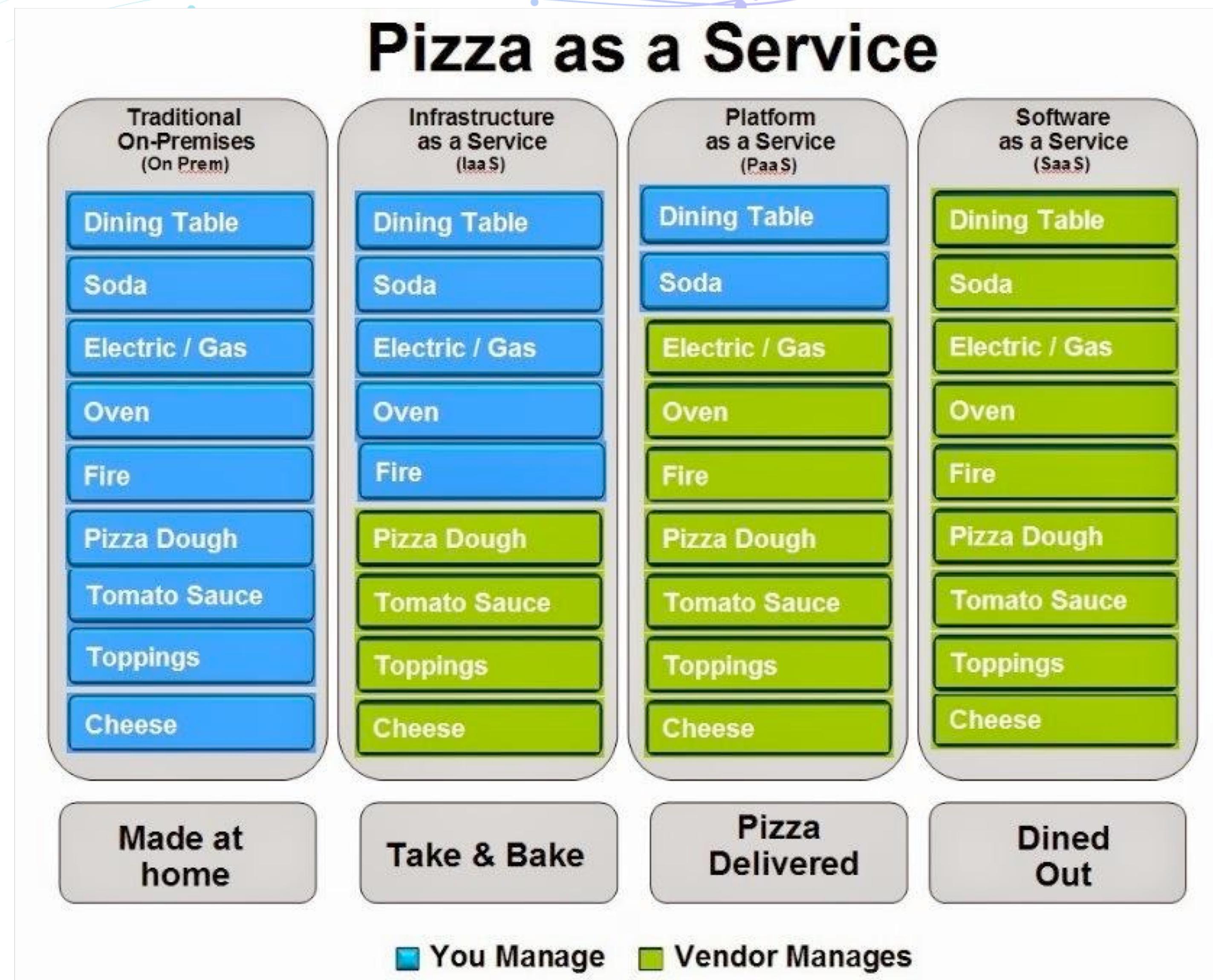
- **Lift&Shift:** Simply host apps that are already web-enable in the cloud.
- **Partial Refactoring:** Move the front end to the cloud. Leave the data in the data center.
- **Refactoring:** Rewrite for the cloud.

### Gartner's Five Rs

- Rehost** on infrastructure as a service (IaaS)
- Refactor** for platform as a service (PaaS)
- Revise** for IaaS or PaaS
- Rebuild** on PaaS
- Replace** with software as a service (SaaS)

# Pizza anyone?

Albert Barron's famous diagram



# The Three Stages of Application Transformation

## Stage 3. Cloud-first

Cloud deployment is considered first.

- Will it be better?
- Will it be cheaper?
- Will it be more secure?



# Do these things

- Audit and take stock of all your applications
- Prioritize and schedule them for:
  - Lift & Shift
  - Partial Refactoring
  - Full Refactoring
- Be prepared for the impact on your network!

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## Network Transformation

**The internet is the new corporate network**



Moving to the cloud introduces network  
bottlenecks

# Office 365: The Killer App

Meaning, it will kill your network

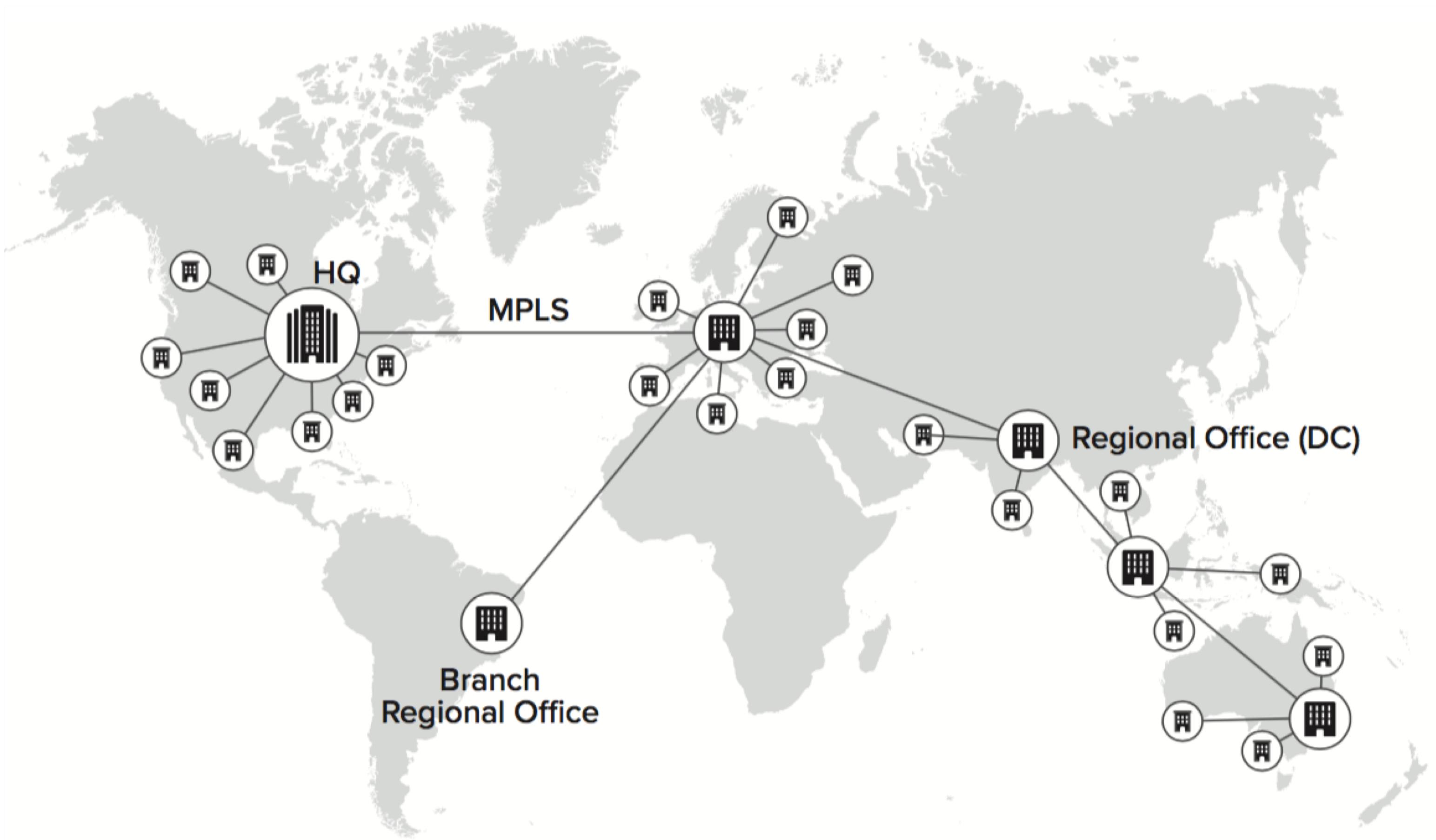
It's always on.

- Everyone is using it.
- Synching to OneDrive can be disastrous
- Watch out for DNS hair pinning

GRIDLOCKED

# Hub-and-Spoke has to go

A 40 Year Old Architecture.

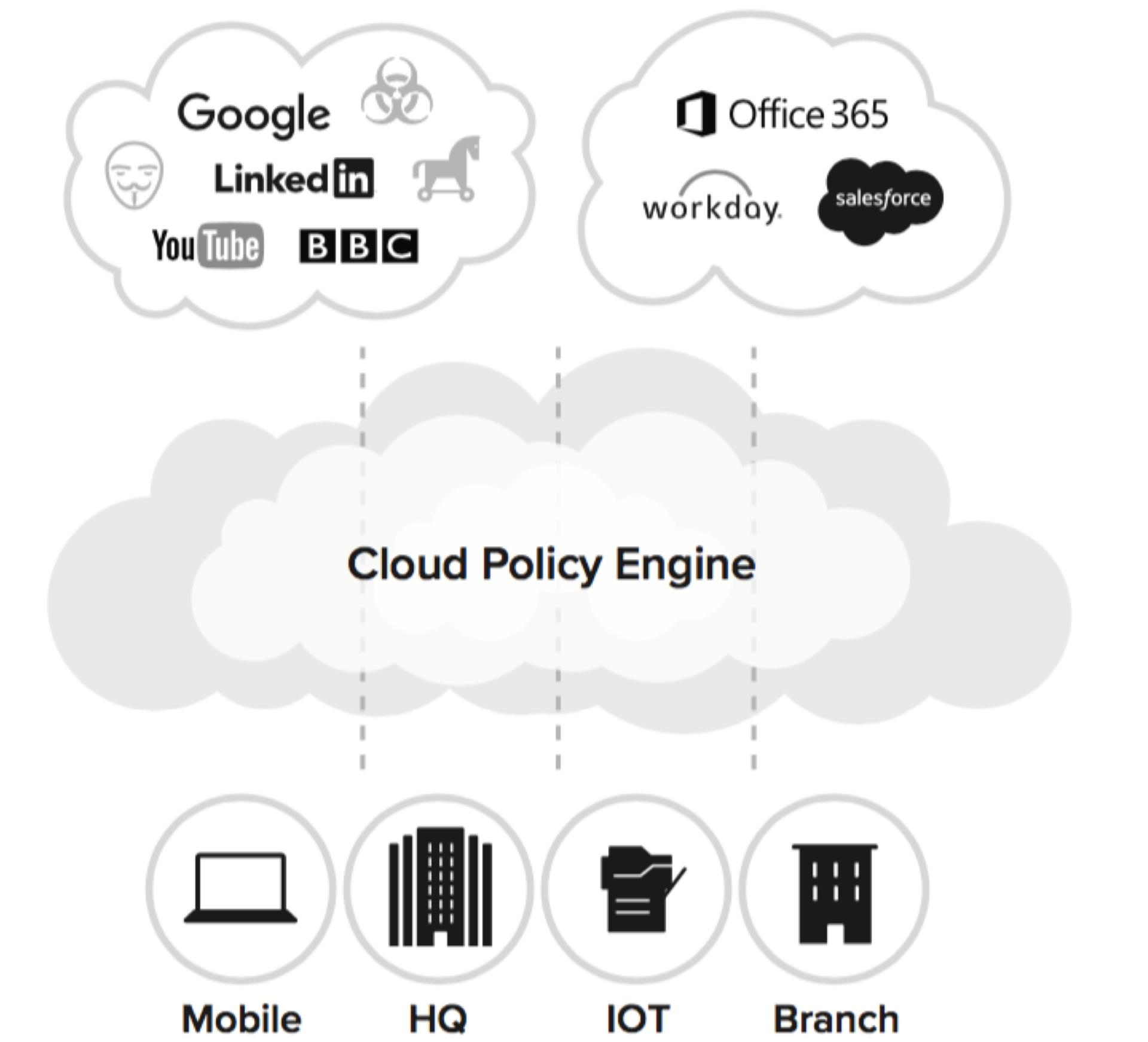


# IF ALL YOUR TRAFFIC GOES TO CLOUD APPS

## WHY ARE YOU BACKHAULING?

Local internet breakout:

- Cheaper
- Faster
- Easier to deploy
- Supported by SDN



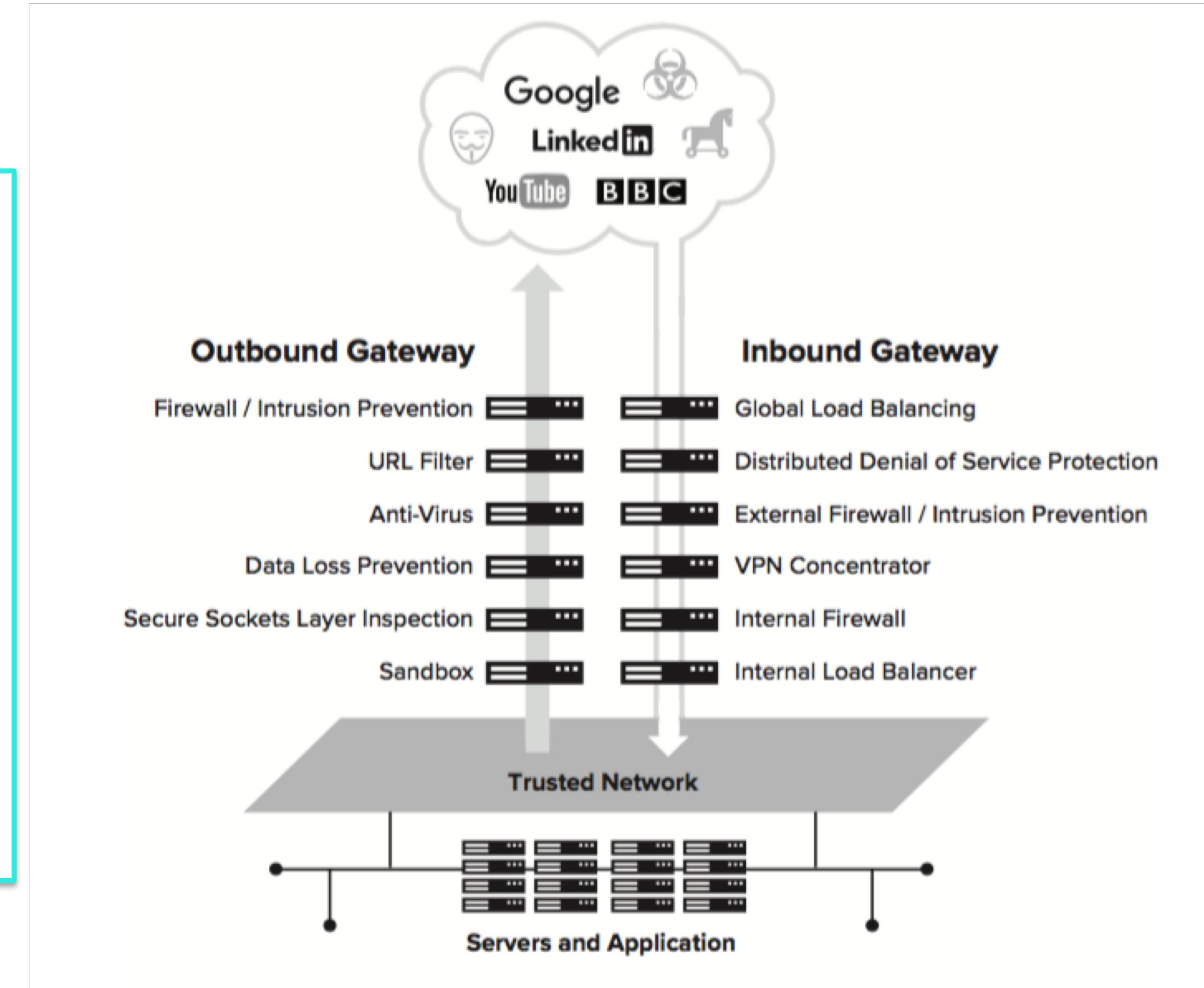
# Where does your security stack go?

Answer: It goes away

No data center? No stack.

What about at each of the remote offices? What about UTM?

A major market segment is at risk here.



# Do this

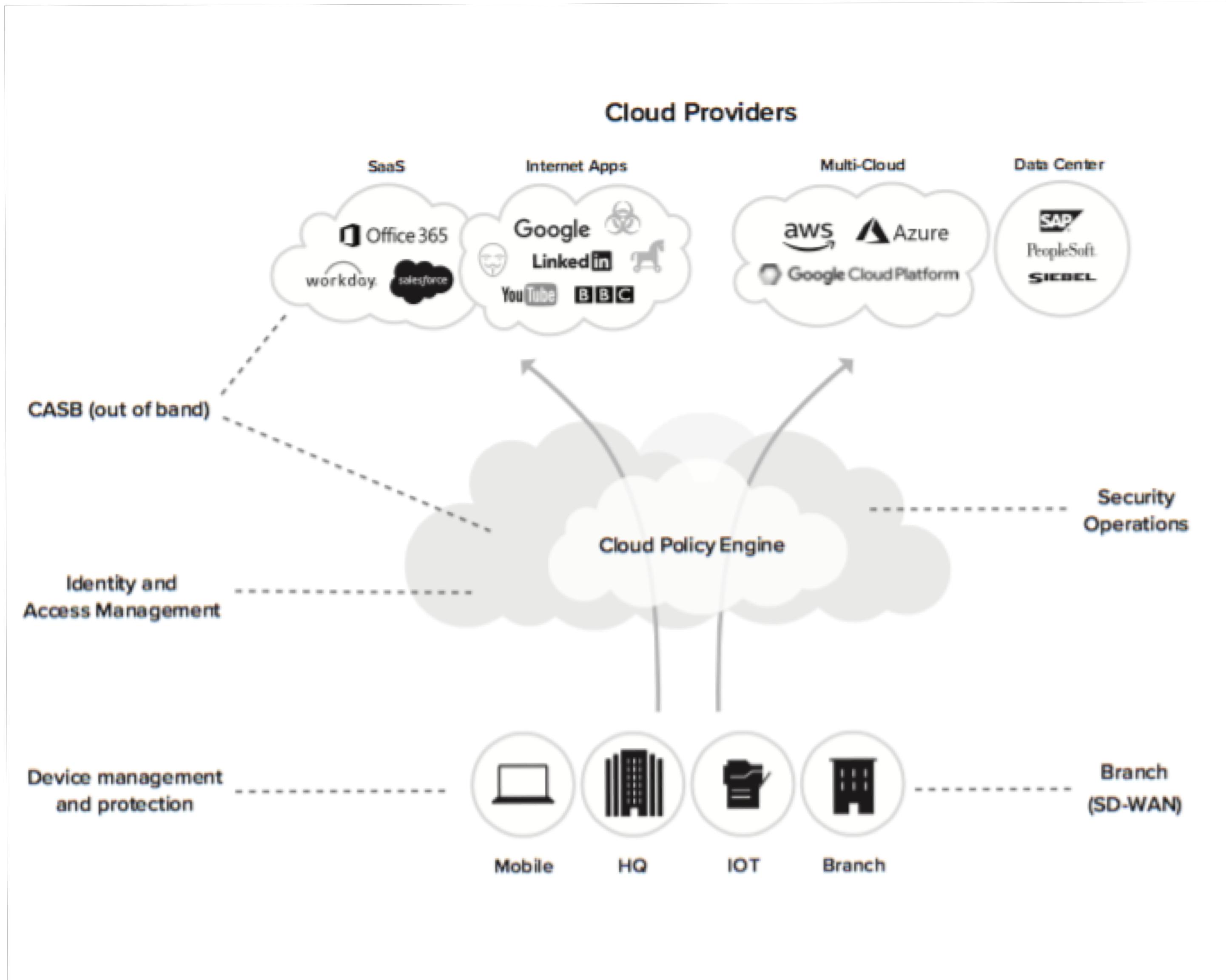
- Replace MPLS backhaul with (redundant) local internet breakout
- Use cost savings to fund digital transformation
- Use Microsoft Express Route or...

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# Zero-Trust Networking

**A new security architecture**

# What cloud transformation looks like



# Zero-Trust

Applications do not broadcast their location by IP address.

Only authenticated users can connect to the apps/resources.

Two paths:

1. Go with a service (the cloud way)
2. Build your own



## Stealth fighter

Can't be pinged with radar

# Do this

- Get identity right.
  - Consolidate directories in the cloud. (Azure AD, Okta, Ping...)
- Cloud policy engine
  - Granular policies per user per app
- Do the security. Multi-Tenant tech for AV, sandboxing, URL content filtering, etc., etc., etc.
- Use cloud DNS
- Log only events, not content (GDPR)