

Digital Workplace Experience

Visibility Challenges for IT

New Tech Brings New Opportunity and Challenges



INCREASED DEMAND FOR DIGITAL SERVICES

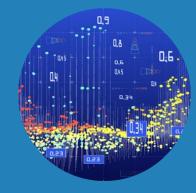


LONG-TERM HYBRID WORK



CLOUD & SAAS ADOPTION

VOLUME, VARIETY, VELOCIY OF DATA





EXPANDED THREATS









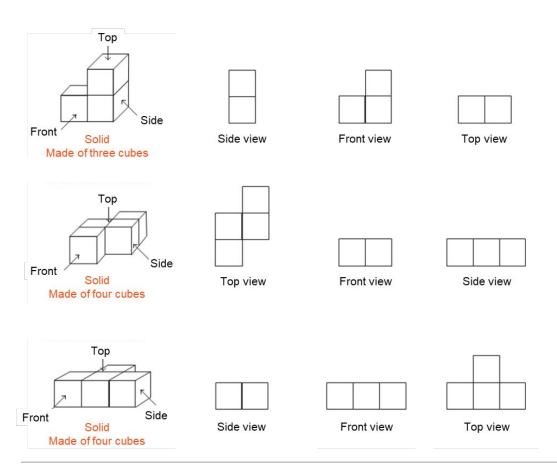






Diversify Your Visibility

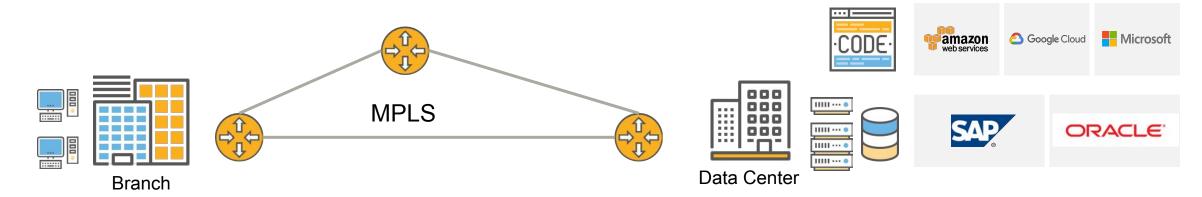
Logs + Flows + Packets + Endpoints + Cloud





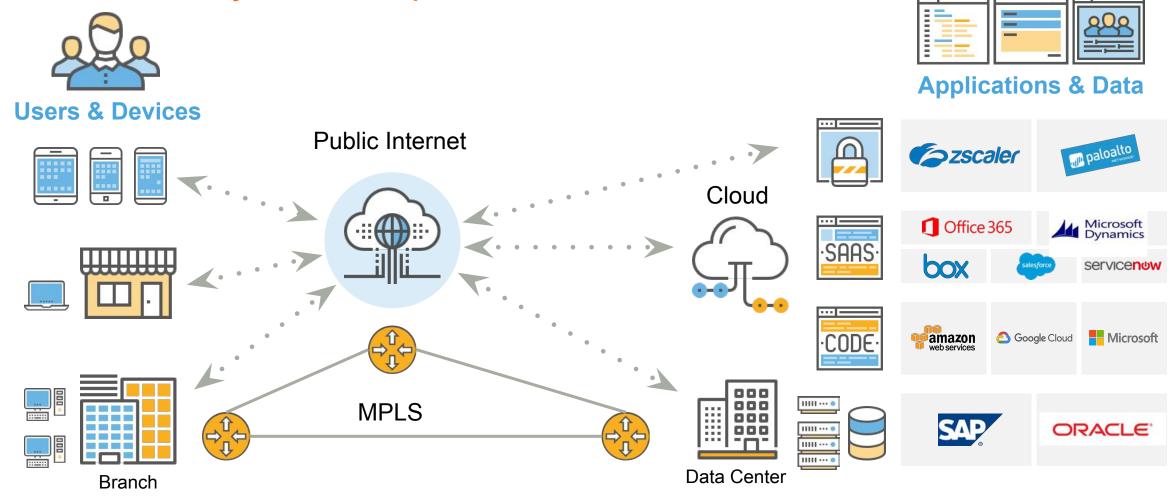
The New Digital Enterprise

Distributed, Hybrid, Complex



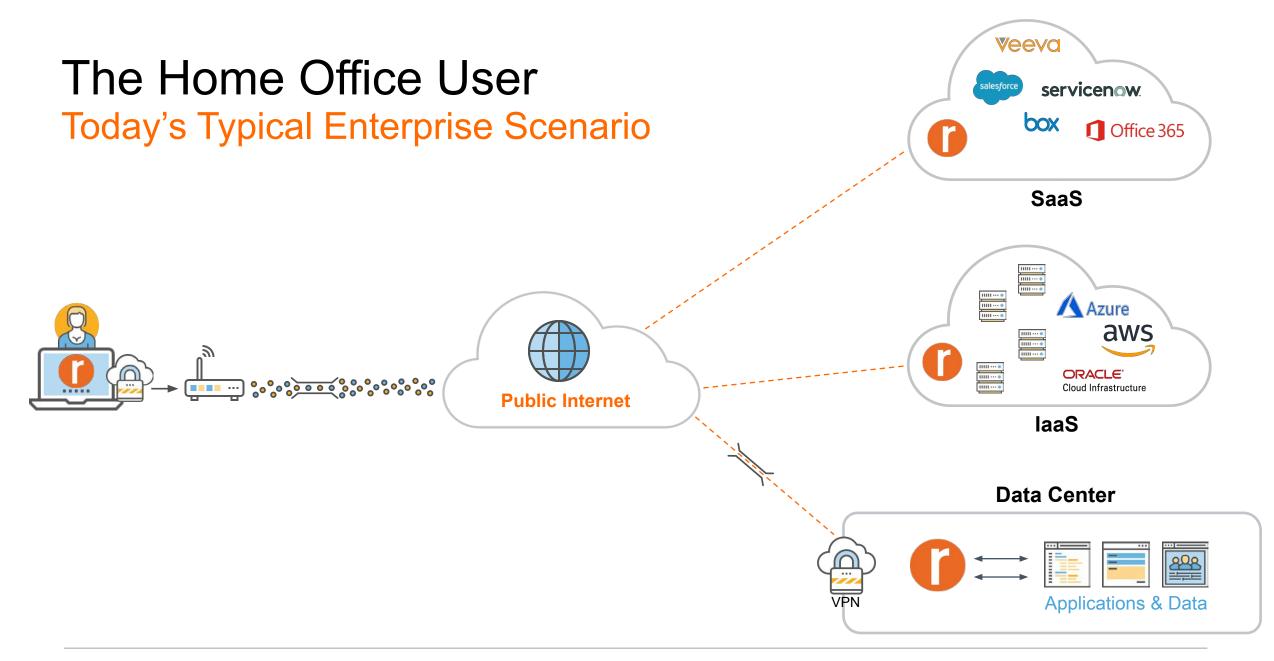
The New Digital Enterprise

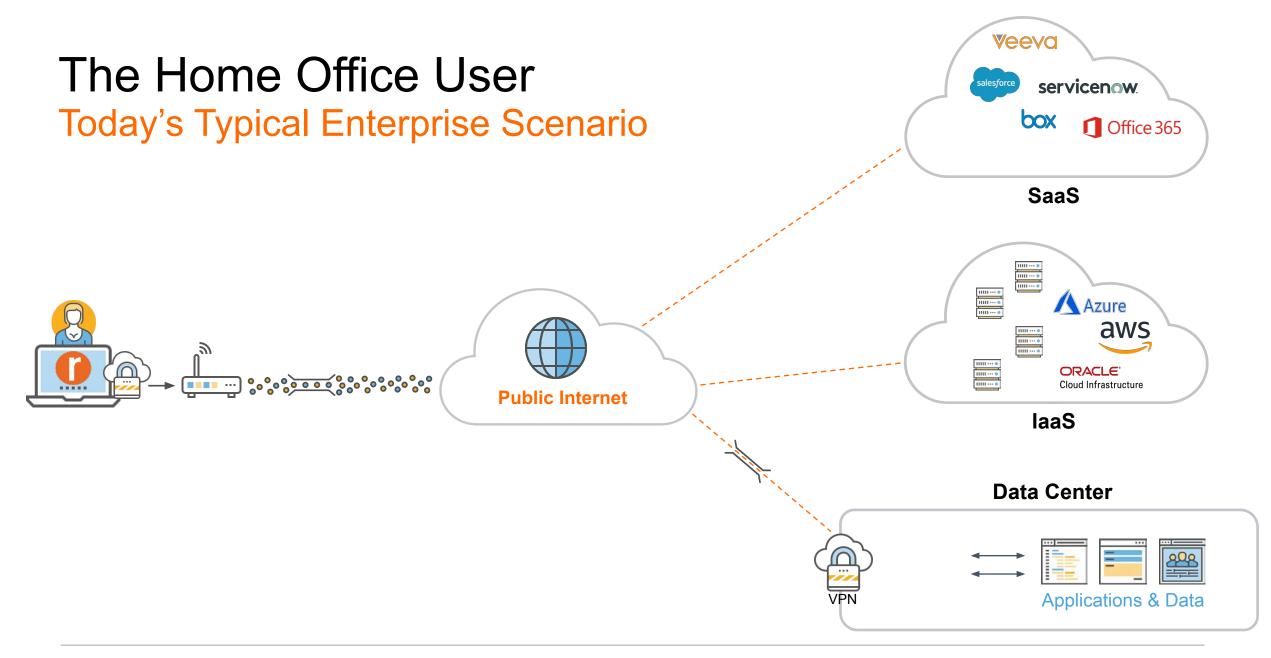
Distributed, Hybrid, Complex

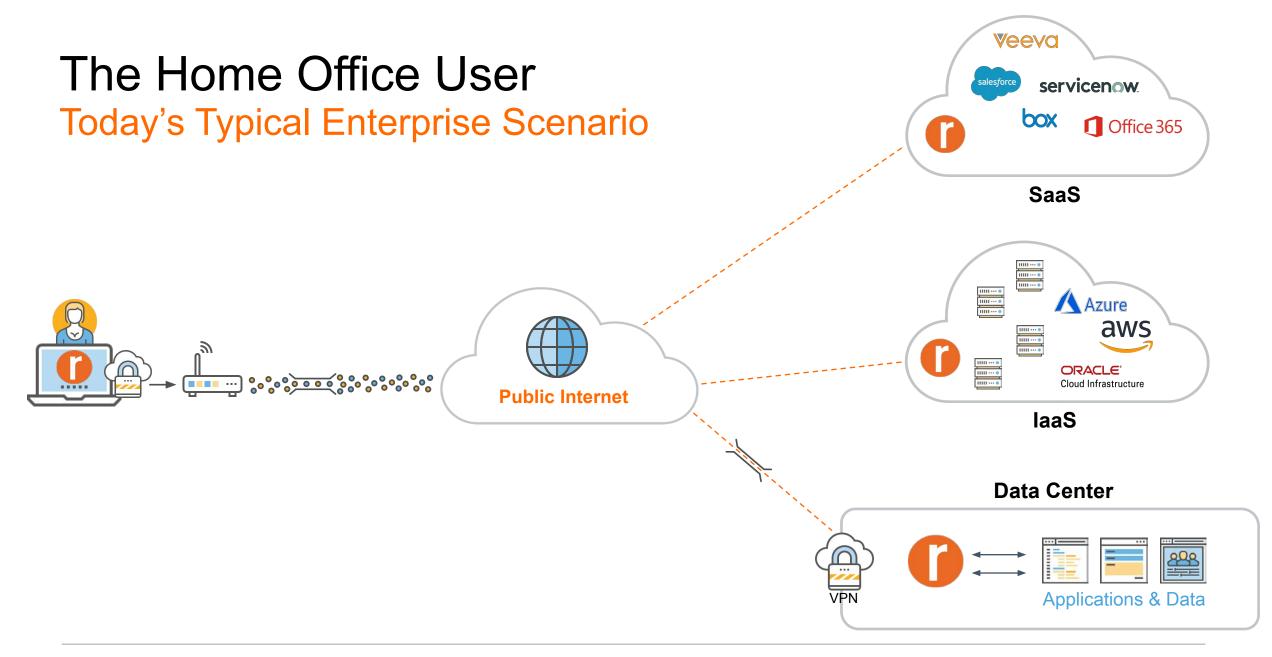


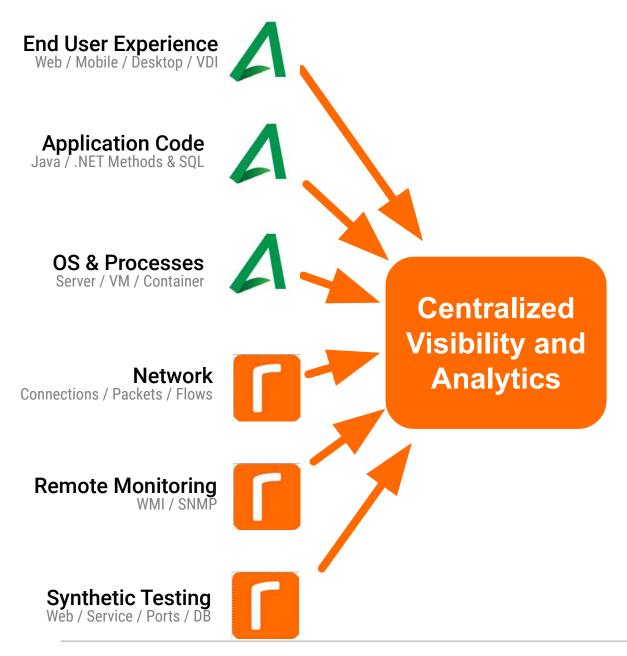
Same house, same day, different latency

```
54 bytes from 40.97.148.226: 1cmp_seq=40
              54 bytes from 40.97.148.226: icmp_seq=47 ttl=244 time=91.398 ms
11AM
                 outlook.com ping statistics
              48 packets transmitted, 44 packets received, 8.8% packet loss
              round-trip min/avg/max/stddev = 49.698/196.425/787.140/182.716 ms
              64 bytes from 40.97.164.146: icmp_seq=22 ttl=240 time=69.986 ms
              64 bytes from 40.97.164.146: icmp_seq=23 ttl=240 time=70.414 ms
 3PM
              --- outlook.com ping statistics ---
              24 packets transmitted, 24 packets received, 8.0% packet loss
              round-trip min/avg/max/stddev = 68.082/91.614/259.460/47.880 ms
```

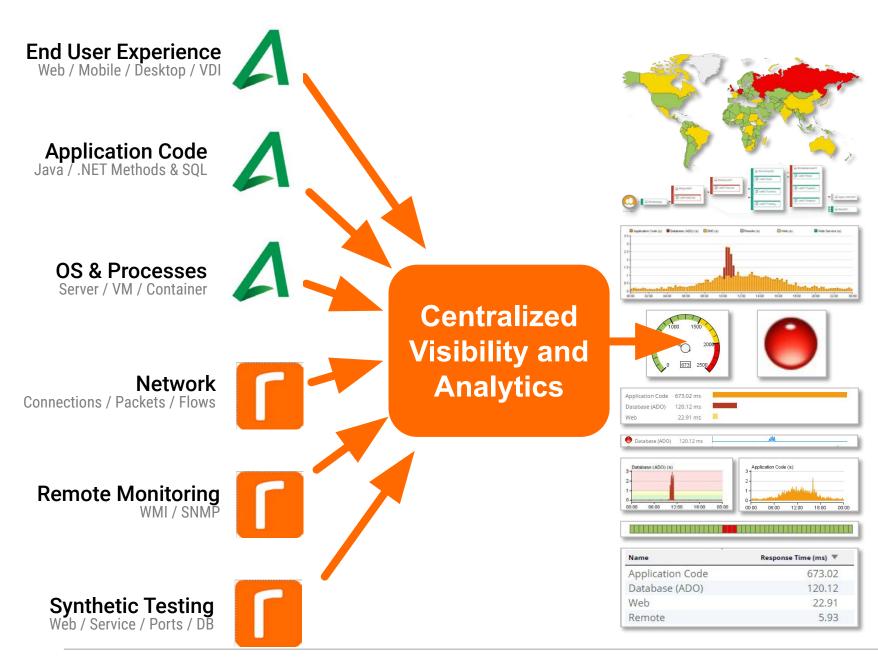




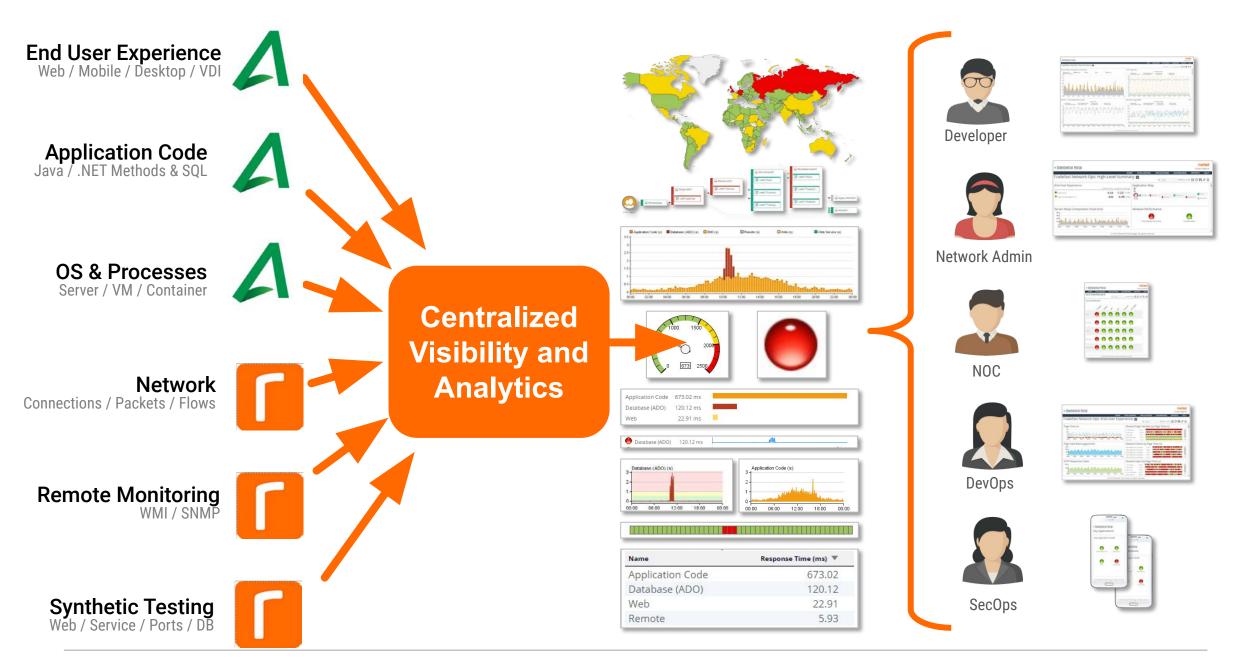






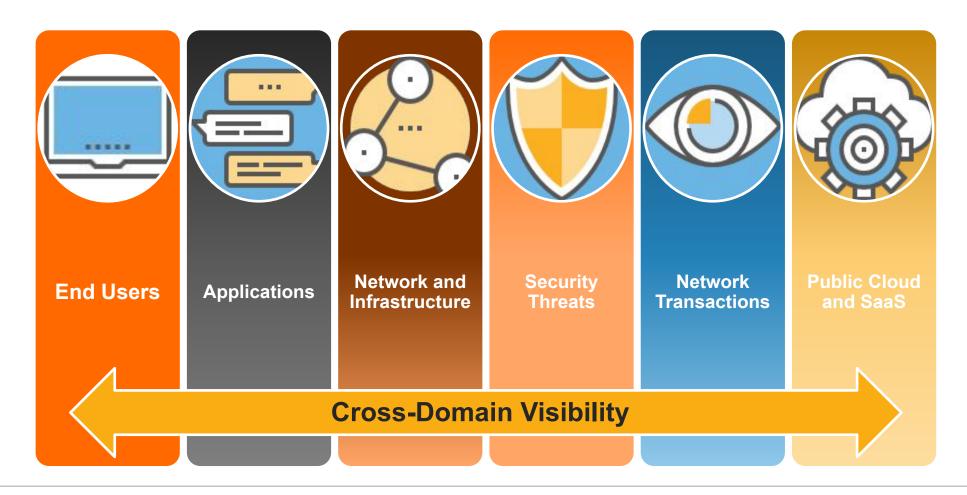






Cross-Domain Visibility

Visibility into Anything, Anywhere



Endpoint Visibility is about EUE



Local Application Performance

- Agent-based or browser-plugin
- Local processes
- Local network activity
- How long does it take to load the page?
- How long did it take yesterday?
- Is there something in the code that's causing pages to feel slow?
- Is there a process using more resources than it should?
- What is the user's call quality?

Where the Applications Live



Physical, Virtual Servers, Containers, Database Activity

- Agent-based or agentless
- Browser or code plugin
- Synthetic testing
- How long is the server taking to respond?
- How are local resources being allocated?
- How long does it take to write to memory?
- What's going on with individual database transactions?
- How many requests is a server receiving?

Public Cloud



Public Cloud Providers and SaaS Providers

- AWS VPC Logs, Azure Log Monitoring, Google Cloud systems and application metrics
- Synthetic tests
- How long is the cloud provider taking to respond?
- Is there unexpected multi-cloud activity?
- What is the daily average response time for my SaaS application in a particular GEO?
- Are requests going to the correct public cloud GEO?

Everywhere in Between













Network devices such as routers, switches, firewalls, load balancers, communication endpoints

- Application flow data
- Packet capture, aggregation, and analysis
- Device info from SNMP, CLI, device APIs
- Transmission times, delay, round trip time capturing the macro and micro
- Is my network (or a device) overwhelmed?
- Is there a network security threat?
- Are my applications taking sub-optimal paths?

Correlation is King

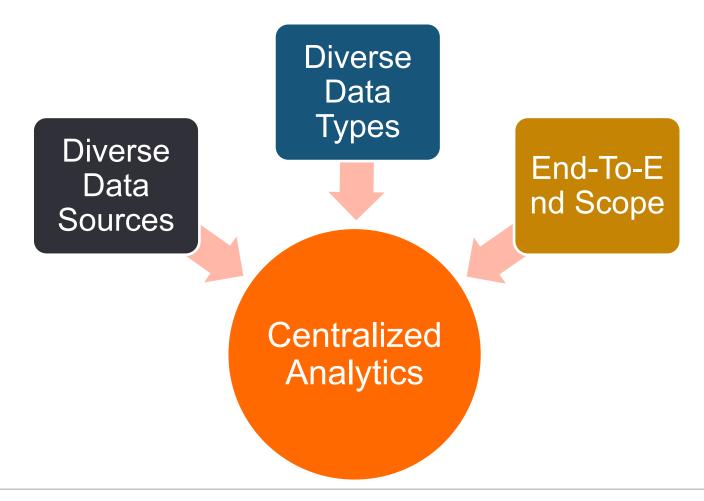
Diversified Views Illuminate

- VOIP calls drop when Interface GE10 has re-trans over 5%
 - This happens every Wednesday at noon
- Salesforce is slow for all users in EMEA
 - But only those using Safari browsers
- All applications are slow, but only for user Phil
 - Unusually high memory usage
 - XMRMINER.EXE is using 100% CPU



Centralized Analytics

Differentiating Between "Weird" and "Bad"



Thank You