2021 CONTENT DELIVERY & EDGE COMPUTE TRENDS

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2021 Content Delivery & Edge Compute Trends

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WHAT CDNs DOES YOUR COMPANY CURRENTLY USE?

- Akamai
- Alibaba Cloud (Aliyun)
- Amazon CloudFront
- AWS
- Google CDN
- Cloudflare
- Interxion
- Fastly
- Key CDN
- Lumen (L3)
- Limelight
- Microsoft Azure
- Rackspace
- Telstra
- Other
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Please rank the key criteria in your CDN selection process.

- Performance
- Streaming
- Security
- Integrating compute products
- Geographic regions
- Image optimization
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Does your company or organization currently use a CDN for any of the following services?

- Live streaming (35%)
- Video-on-demand (VoD) (29%)
- Mobile app content (16%)
- Edge computing (7%)
- Large-file downloads (13%)
AT WHAT STAGE ARE YOUR PLANS TO INCORPORATE EDGE COMPUTING?

- **Stage 0 – No plans**
- **Stage 1 – Plans only**
- **Stage 2 – Pilot projects**
- **Stage 3 – Full integration**
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Have you thought about using open CDN standards to develop your own CDN?

1. Receptive to open CDN standards (overall):
   - No: 31%
   - Yes: 69%

2. Receptive to open CDN standard (stage 2/3):
   - No: 38%
   - Yes: 62%
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REASONS NOT TO DEVELOP OWN CDN

- Lack of expertise
- Lack of knowledge
- Lack of financing
- Technical hurdles
- Business hurdles
- Lack of security
- Lack of redundancy

Overall vs. Stage 2
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KEY CRITERIA IN CHOOSING EDGE COMPUTE

- Network performance
- Latency
- Virtual machine OS
- PoP (region)
- PoP (quantity)
- Containers

Overall
Stage 2
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CDN FUNCTIONALITY

Overall
Stage 2/3

Virtual machines, DBaaS (database), Docker/Kubernetes, Containerization, Object Storage, AaaS (analytics), Serverless, Block storage
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TOP 6 SECURITY CONCERNS

- Content protection
- Application protection
- Data & analytics
- Bot protection
- API protection
- DDoS protection
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REASONS FOR NOT USING SASE OR RASP

- Lack of expertise
- Lack of knowledge
- Lack of financing
- Technical hurdles
- Business hurdles
- Lack of redundancy
APP DEVELOPMENT CHALLENGES

Tech
• Balancing customer requirements and platform stability efforts against development and QA workflows and lifecycles

Support
• Cross platform support and maintenance on the different platforms
• Support across a range of client environments and use cases

Expertise
• Finding developers in general and specifically in video engineering
Online/Streaming Use

- All courses moved online, requiring an increase in online tools without adding any staff
- More content being streamed and broadcast
- More users consuming VoD
- Move to put content delivery, vision mixing, communications services, and collaboration software platforms into the cloud
- Nearly 100% of my clients want content streamed vs 10-15% preCovid
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WHAT CHANGED DURING COVID

Bandwidth
• Bandwidth and resources

Security
• Scalability and security concerns
THANK YOU FOR WATCHING THE 2021 CONTENT DELIVERY & EDGE COMPUTE TRENDS RESEARCH KEYNOTE

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