

CHARTERHOUSE

CONNECT. COLLABORATE. SECURE

Extreme Networks Partner of the Year 2022



Realising the potential of **state-of-the-art** apps

Small investments. Serious gains.

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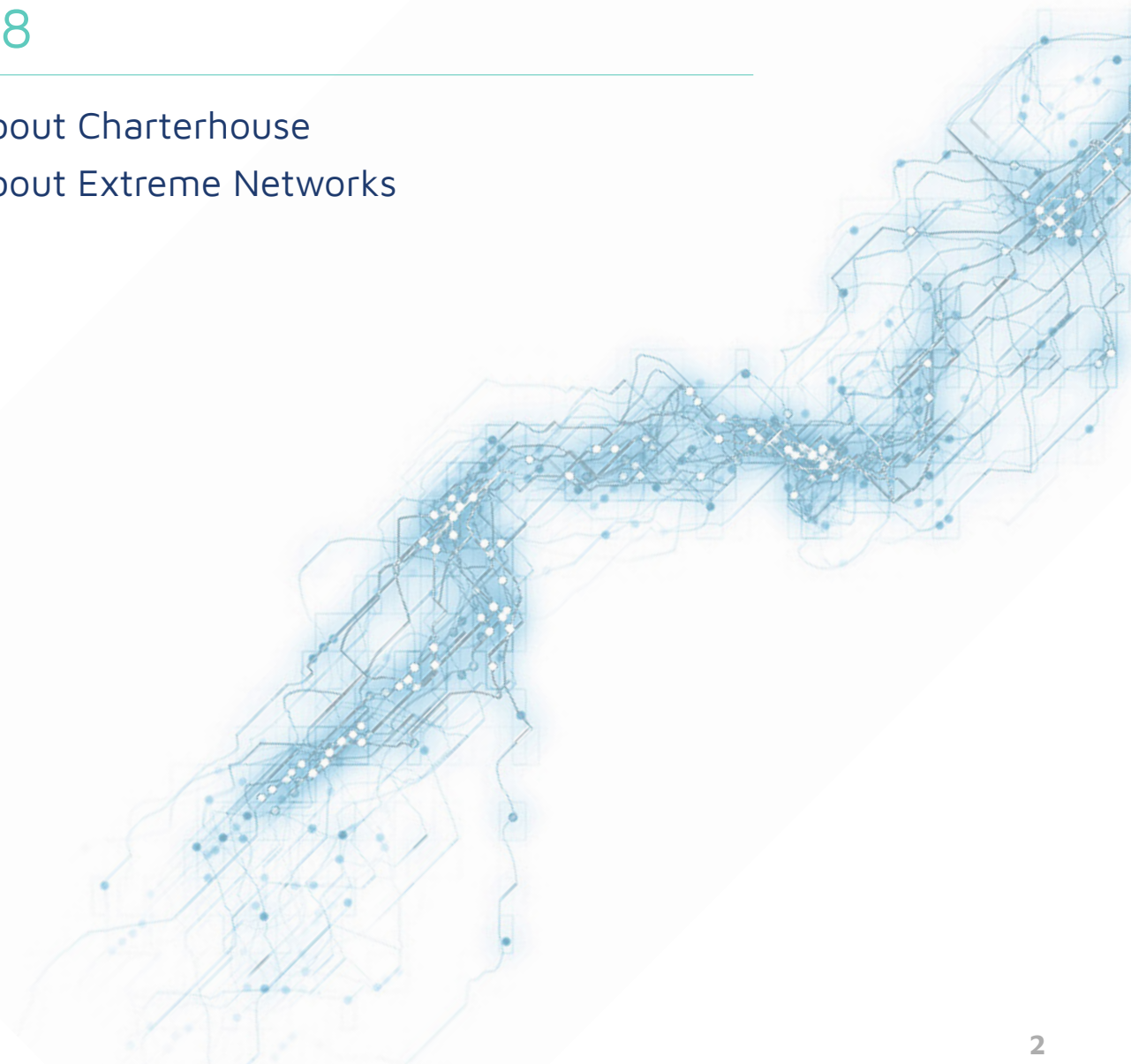
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Apps and Networks

The exact figure is difficult to pinpoint.

Some place it at 60%. Others push it to 70.

What almost all agree is, in today's IT departments, the lion's share of budgets go towards developing and supporting applications.

Productivity apps. Collaboration apps. Apps that reduce costs, boost efficiencies and keep the organisational wheels turning.

All have proved their value. And investment in all is increasing.

But of course, apps are only of any real value when they work as intended.

And to ensure apps work as intended – without glitches, without downtime, and without leaving users griping and groaning – innovative apps must be supported by much less glamorous partners.

To perform at their peak, apps need strong networks.

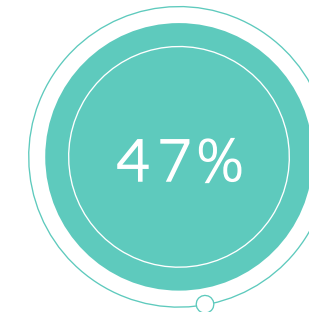


70% of **IT budgets** will go towards **software, cloud-based services** and **managed services** in 2022

- *Spiceworks Ziff Davis, 2021*

Optimising Apps With On-Premise Networks

Until very recently, tweaking a network to unleash an app's true potential was relatively simple. And that's because, until very recently, organisations typically housed their IT infrastructures on premise. New apps nestled into on-premise infrastructures nicely, and LANs safeguarded both app performance and user experience. Bandwidth was plentiful. And in-house teams could optimise networks on demand. That was just a few years ago. But in 2021, the model is already in question.



47% of businesses **cite updating outdated IT infrastructure** as a reason for **increasing IT spend** in 2022

- *Spiceworks Ziff Davis, 2021*

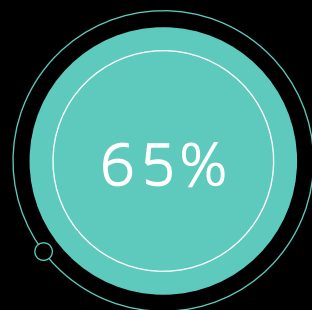
What's Changed?

Today, as opposed to sitting on-premise, new apps invariably sit in the cloud. At the same time, today's users are rarely on premise: you'll find newly minted remote and 'hybrid' workers working from home, from coffee shops, from trains and from colleagues' houses. In large enterprises, makeshift workspaces span continents. The new model is here to stay. Which leaves IT departments with a puzzle. How can IT teams guarantee faultless app performance – and an outstanding user experience – when neither apps nor users reside on premise?



90% of organisations plan to **combine remote** and **on-site working** post covid-19

- McKinsey, 2021



65% of workers are **more productive at home** vs the traditional workspace

- Flexjobs, 2019



The Problems Posed by Workplace Changes

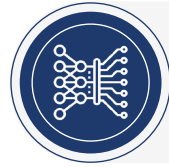
The problems posed by recent workplace changes are numerous.



Networks are increasingly difficult to **monitor**



Networks are increasingly difficult to **control**



Workplace networks are rarely –if ever – **optimised**



Expensive apps no longer function as intended



Users experience **lag** and **downtime**



Users **bemoan** their user **experience**

Fortunately, following recent networking innovations, they're all problems to which solutions exist.

Ensuring the Highest Levels of Experience With the **Correct SD-WAN Approach**

In modern working environments, with neither apps nor users on premise, having the ability to define and ensure a quality of experience (QoE) for your key applications is paramount. It's no longer sufficient to contain this functionality locally, rather it needs to extend to wherever application access is required, or where the application is hosted. By utilising the correct SD-WAN solution, quality of service (QoS) with session-based prioritization and dynamic queue management can be extended - independent of your underlying network - to deliver high performance for every user, at every location.

It's a metaphorical handbrake release.

With the correct SD-WAN solution, applications are no longer restricted – and users get to interact with apps without delays – enabling and enforcing the highest levels of quality of experience.

Regaining visibility through a single pane of glass

It's tricky to maintain network and application visibility when IT infrastructures are fragmented. Supplementing LANs with SD-WAN risks complicating things further. Fortunately, smart network management solutions are aware of the danger. The solutions solve visibility problems by granting IT departments total network visibility –regardless of where they reside and extend too – through a single pane of glass. Thanks to recent innovations, with just one solution, IT teams can monitor all network traffic.

Reclaiming control with cloud-based solutions

Total network visibility grants IT teams control: teams can see apps in jeopardy, they can support apps underperforming, they can respond to issues before users report them and, with complete visibility of issues, they can resolve problems without grappling in the dark. On top of all the above, innovative network management solutions are themselves cloud-based. That means IT teams can monitor and manage their networks from anywhere, at any time, on any device.

It's complete control.

Maintaining uptime with machine learning and AI

Innovative network solutions record and analyse a lot of data, millions of users and deployments across a global base. And, armed with in-built machine learning algorithms and AI, they use the data to improve network (and app) performance and quality of experience.

As an example, an AI solution might spot the precise conditions that degrade app performance. Over time, it'll use what it 'learns' to ensure apps always perform as intended. Taken to the extreme, the solutions have the potential to keep apps online when, without intervention, they'd have gone down... all without any input from IT managers whatsoever.

Connectivity That Doesn't Hold You Back

- Networks aren't particularly sexy – a fact that's all the more obvious when compared to apps.
- Still, without strong networks, apps are unable to perform.
- They're shackled. They're restricted. Sub-optimal networks hold apps back.
- And that's worth bearing in mind given how much organisations now spend on apps.
- State-of-the-art apps deserve fast and reliable connectivity.
- **With appropriate networking solutions, you get connectivity that won't hold you back.**

CHARTERHOUSE

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About Charterhouse

Charterhouse delivers technology solutions that drive business success.

Since our inception 28 years ago, internationally renowned organisations have trusted us to design, provision and support the technologies that underpin their operations.

Our innovative solution portfolio combined with a client-centric approach, strategic partnerships and technology expertise give our customers confidence that we can deliver every time.



About Extreme Networks

Since 1996, Extreme has been pushing the boundaries of networking technology, driven by a vision of making it simpler and faster, as well as more agile and secure.

Extreme's Cloud-Managed Networks simplify network management. They allow organisations to manage networks from a single screen, anywhere on any device, helping organisations keep pace with the changing needs of an evolving workforce.

