



Intelligent infrastructuretrends in 2020

The impact of data on infrastructure is accelerating. Infrastructure is supporting data for business intelligence and becoming a data source. As the hybrid cloud creates new challenges, the software-defined wide-area network is fundamental to adopting new connectivity technologies.

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IT infrastructure: from multicloud to hybrid cloud
Simultaneously managing workloads and data across hybrid cloud



Managed services leveraging automation, AI and ML will address performance, cost and complexity challenges associated with multicloud.

Steps to take in 2020

Optimize lifecycle management in a hybrid cloud environment

Uncover which platform is best suited for each workload and plan a migration and data management strategy accordingly.

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SD-WAN meets cloud networking
Multiple ways of providing a network backbone and access



Clients will have multiple connectivity options, e.g. hyperscale as network providers and 5G will complement existing backbone and access network options respectively.

Steps to take in 2020

Explore all network connectivity options

Invest in appropriate skills for design, installation, and management of your new WAN, for optimal performance.

3

Connectivity at the edge Internet of Things requires more processing and storage at the edge



By 2025, there will be more than **55 billion IoT devices**, up from about 9 billion in **2017***.

*loT Report: How Internet of Things Technology Is Now Reaching Mainstream Companies and Consumers. By Peter Newman. Business Insider. July 27, 2018

Steps to take in 2020

Have the **right management framework** for hybrid networks

Focus on your SD-WAN strategy, software-defined access, and intent-based networking to drive more agility in upgrading your infrastructure. 4

Managed services platform and automating the network with intent Agile infrastructure needs create demand for automation and analytics skills



Organizations will need appropriate automation, operational processes, and platforms to manage large-scale infrastructure rollouts.

Steps to take in 2020

Partnering for the right skills

Given the massive skill shortages, partnering for required software DevOps and data science capabilities will be necessary.

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Security becomes central to infrastructure design Security is no longer the domain of security specialists only



The sheer scale of current threats **moves security from** 'after the fact' to 'before the build' in infrastructure design.

Steps to take in 2020

Build in security from the start

Adopting a 'built-in' instead of a 'bolt-on' approach will ensure that infrastructure is secure by design.