# Middle East, Africa cloud traffic to be 86% of total data centre traffic by 2020

Cisco yesterday released its Global Cloud Index (2015-2020), which reveals that global cloud traffic is expected to rise 3.7-fold, up from 3.9 zettabytes (ZB) per year in 2015 to 14.1 ZB per year by 2020. This rapid growth of cloud traffic is attributed to increased migration to cloud architectures and their ability to scale quickly and support more workloads than traditional data centres.



©scanrail via 123RF

With greater virtualisation, cloud operators are also able to achieve greater operational efficiencies while flexibly delivering a growing variety of services to businesses and consumers with optimal performance. To better understand data centre growth, new analysis on application workloads was developed for this year's report. The following business and consumer projections were revealed.

## Business

• By 2020, business workloads will account for 72% (344.5 million) of total data centre workloads, compared to 79% (142.3 million) in 2015 (2.4-fold growth).
• By 2020, compute workloads will account for 29% of total business workloads, compared to 28% in 2015.
• By 2020, collaboration workloads will account for 24% of total business workloads, compared to 25% in 2015.
• By 2020, database/analytics/Internet of Things (IoT) workloads will account for 22% of total business workloads, compared to 20% in 2015.

## Consumer

• By 2020, consumer workloads will account for 28% (134.3 million) of total data centre workloads, compared to 21% (38.6 million) in 2015 (3.5-fold growth).
• By 2020, video streaming workloads will account for 34% of total consumer workloads, compared to 29% in 2015.
• By 2020, social networking workloads will account for 24% of total consumer workloads, compared to 20% in 2015.
• By 2020, search workloads will account for 15% of total consumer workloads, compared to 17% in 2015

"The IT industry has taken cloud computing from an emerging technology to an essential scalable and flexible networking solution. With large global cloud deployments, operators are optimizing their data centre strategies to meet the growing

needs of businesses and consumers," said Andy MacDonald, vice president Global Service Providers; Middle East, Africa and Russia, Cisco.

## Hyperscale data centre impact

For the first time, Cisco also quantified and analysed the impact of hyperscale data centres. These data centres are expected to grow from 259 in 2015 to 485 by 2020. Hyperscale[1] data centre traffic is projected to quintuple over the next five years. These infrastructures will account for 47% of total data centre installed servers and support 53% of all data centre traffic by 2020.

A key infrastructure trend is transforming hyperscale (and other) data centres. Software-defined networking (SDN) and network functions virtualization (NFV) are helping to flatten data centre architectures and streamline traffic flows. Over the next five years, nearly 60% of global hyperscale data centres are expected to deploy SDN/NFV solutions. By 2020, 44% of traffic within data centres will be supported by SDN/NFV platforms (up from 23% in 2015) as operators strive for greater efficiencies.

## Middle East and Africa Global Cloud Index forecasted highlights and projections

### Data centre traffic highlights

• In Middle East and Africa, data centre traffic will reach 328 Exabytes per year (27 Exabytes per month) by 2019, up from 82 Exabytes per year (6.8 Exabytes per month) in 2014.
• In Middle East and Africa, data centre traffic will grow 4.0-fold by 2019, at a CAGR of 32% from 2014 to 2019.
• In Middle East and Africa, data centre traffic grew 40% in 2014, up from 59 Exabytes per year (4.9 Exabytes per month) in 2013.
• In Middle East and Africa, 59.9% of data centre traffic will remain within the data centre by 2019, compared to 74.0% in 2014.
• In Middle East and Africa, 33.0% of data centre traffic will travel to end users by 2019, compared to 18.9% in 2014.
• In Middle East and Africa, 7.1% of data centre traffic will travel between data centres by 2019, compared to 7.1% in 2014.
• In Middle East and Africa, consumer data centre traffic will represent 65% of total data centre traffic by 2019, compared to 32% in 2014.

### Cloud traffic highlights

• In Middle East and Africa, cloud data centre traffic will represent 86% of total data centre traffic by 2019, compared to 61% in 2014.
• In Middle East and Africa, cloud data centre traffic will reach 280 Exabytes per year (23 Exabytes per month) by 2019, up from 50 Exabytes per year (4.2 Exabytes per month) in 2014.
• In Middle East and Africa, cloud data centre traffic will grow 5.6-fold by 2019, at a CAGR of 41% from 2014 to 2019.
• In Middle East and Africa, cloud data centre traffic grew 61% in 2014, up from 31 Exabytes per year (2.6 Exabytes per month) in 2013.
• In Middle East and Africa, consumer will represent 61% of cloud data centre traffic by 2019, compared to 30% in 2014.

### Traditional traffic highlights

• In Middle East and Africa, traditional data centre traffic will represent 14% of total data centre traffic by 2019, compared to 39% in 2014.
• In Middle East and Africa, traditional data centre traffic will reach 47 Exabytes per year (4.0 Exabytes per month) by 2019, up from 31 Exabytes per year (2.6 Exabytes per month) in 2014.
• In Middle East and Africa, traditional data centre traffic will grow 1.5-fold by 2019, at a CAGR of 9% from 2014 to 2019.
• In Middle East and Africa, traditional data centre traffic grew 16% in 2014, up from 27 Exabytes per year (2.3 Exabytes per month) in 2013.

• In Middle East and Africa, consumer will represent 89% of traditional data centre traffic by 2019, compared to 35% in 2014.

For more, visit: https://www.bizcommunity.com