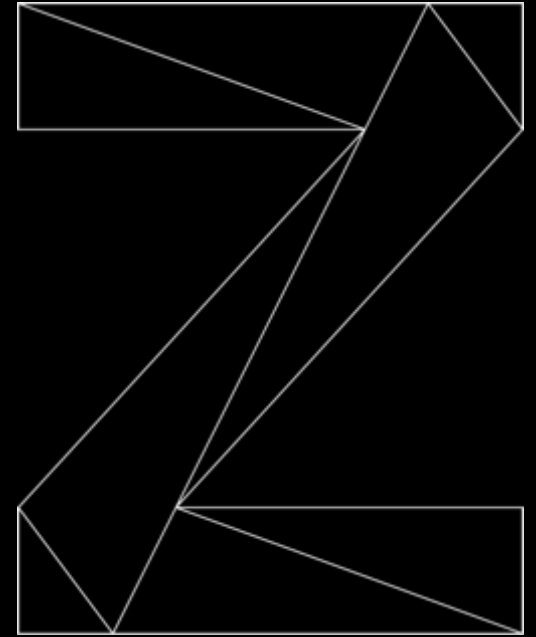


Enterprise Computing





5,787
Tweets



18,519
swipes



20,000+
Photos shared



63,000
searches



1,157,407
IBM Z
transactions

When have you used IBM Z?

DAILY

30 billion
transactions

400 million
retail transactions

1 million
hotel nights

ANNUALLY

29 billion
ATM transactions

87%
of all credit card
transactions

90%
of all airline reservations

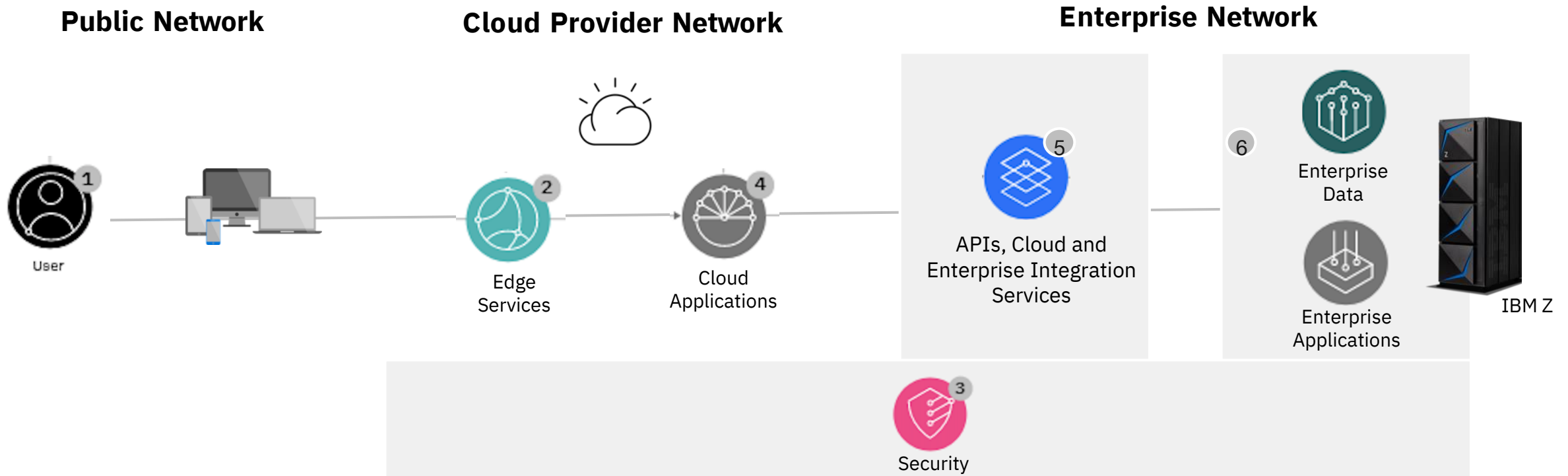
\$666,652,612,597,862

Payments are the Economy
- Gareth Lodge, CELENT

What is Enterprise Computing and IBM Z?

The systems behind the scenes running apps – from networking to infrastructure

68% of the world's
production IT workloads run
on mainframe systems



IBM Z: The IT backbone of the world's leading businesses



23
of the top 25
US retailers

92
of the top 100
worldwide banks

23
out of 25
of the world's
largest airlines

10 out of 10
of the world's
largest insurers

Industry transformation is a challenge for business and for IT



Instant payments

Open access

Embedded services

**Digital
transformation**

Regulation

Cyber threats

Data Privacy

Infrastructure is shifting to a cloud first model

Organizations are facing massive changes to their business

4^x

employees were working from home when compared to before COVID (45% of total now, compared to 11% before COVID)

84%

Executives expecting customers to prefer online channels for engagement post-COVID

57%

Customers now seeking environmentally and/or socially conscious products and services

More than

30%

of Germany's post-COVID recovery aid program is tied to green initiatives

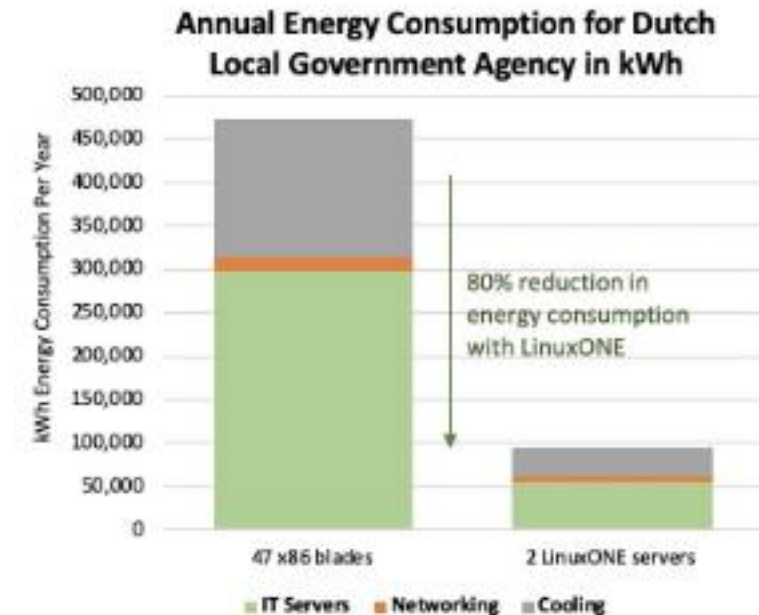
Responsible Computing



“IBM Europe is changing how **European clients** work by leading them on the journey to **hybrid cloud** and becoming a **responsible, cognitive enterprise.**”

Rashik Parmar

IBM Fellow & Vice President Technology



**Responsible
use of natural
resources**

Reduce
environmental
impact of data
centers

**Responsible
Infrastructure**

Reduce energy/
computing unit
Reduce precious/
rare metal usage
Recycling of tech

**Responsible
Code**

Efficient coding
Open
Secure

**Responsible
Data Insights**

Privacy
Transparency
Authorized data
acquisition
Consent for use

**Responsible
Systems**

Ethical systems
Unbiased
Explainable AI

**Responsible
Impact**

Tech for good
Address societal
issues
Social mobility

Data Privacy: The Next Big Thing

Simplifying data privacy by improving data protection

Of the **14 Billion** records
breached since 2013

only **4%** were encrypted ¹



\$3.8M

Average cost of a data breach
in 2018 ²



80 +

Data privacy regulations, varying by
industry, location, and geo ³

2/3 of established
companies are leveraging
fintech capabilities for
growth. That number is
expected to increase by
20% in the next three
years

- Harvard Business Review
Analytic Services

59%

of companies in the US and UK
say they experienced a data
breach via a third party.

- 2018 Ponemon Study on Global
Megatrends in Cybersecurity



The EU GDPR is the most
important change in data
privacy regulation in 20 years



Payment Card Industry Data
Security Standard (PCI-DSS)



Health Insurance Portability and
Accountability
Act (HIPAA)



California Consumer Privacy Act

IBM Z and LinuxONE

Elevating protection for Confidential Computing

Dedicated cryptography

Delivered massive secure transaction throughput

Pervasive Encryption

100% protection of data within the system

Data Privacy Passports

100% protection of data wherever it resides

No changes to applications
No impact to service levels
Ultimate risk mitigation for Digital business



Demand for IBM Z and IBM Z Skills

90%

Platform for
Growth and
long-term
applications

67%

X-Large
shops have
majority of
Data on
mainframe

56%

Using
DevOps on
the
mainframe

74%

See ROI in 1
year or less
with DevOps
adoption

63%

Rate Security
and
Compliance
as #1 top
priority

Students pursuing careers in technology are focused on five primary things in a potential career.

Enterprise Computing outperforms other IT roles

Base: US online adults, 18+; 414 IT professionals involved in software development, IT support, enterprise architecture, enterprise computing systems administration/development, data science, etc.
Source: A commissioned study conducted by Forrester Consulting on behalf of IBM, September 2019



Good salary

● Enterprise computing role ● Other computing role

Average reported starting salary for enterprise computing is **\$70,100** versus \$62,950 of other mixed IT roles.



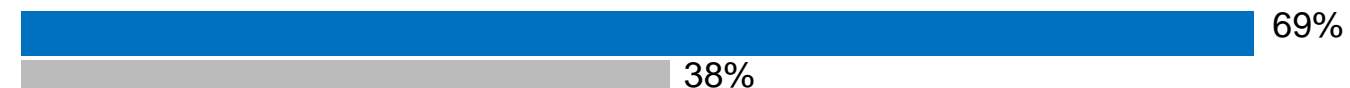
Good work-life balance

A good work-life balance (% rating 8, 9, or 10 out of 10)



Ability to make a social impact

Social impact, for example, the ability to contribute to open source, social, or community groups, with your technical skills



Working on something that aligns with primary interests in technology

Opportunity to work with leading-edge tech



Job security/role versatility

Nearly **90%** of professionals in enterprise computing careers agree the job market for their skill set is growing, and **75%** believe there is a shortage (i.e., high demand) for their skill.

Enterprise Computing enables you to work in a wide variety of areas....

Hybrid Cloud



Within 5 years, more than 50%+ of U.S. P&C insurers will put new core systems in the cloud.

Analytics



Insurers are expected to spend approximately \$8.3B, or 8% of their overall spending, with big data and analytics vendors in 2019, growing to \$11.5B in 2022

Blockchain



Insurance Blockchain market is expected to grow to \$1.4B by 2023, at a CAGR of 85%

Insurtech



VC investments almost doubled in last two years, 1.7B in 2016 to \$3B in 2018

Artificial Intelligence



AI spend from spend \$1.1B, in 2019 to \$2.6B in 2022

Internet of Things



Insurance industry is expected to spend \$7.7B on IoT in 2019, growing to \$12B in 2022.