

The Cloud and IoT Working Together Make the Right Connections



Many of the technologies we use every day are actually combinations of separate technologies brought together. The union of cloud technology and the Internet of Things (IoT) is another such pairing that will produce new opportunities for businesses.

What is IoT?

The Internet of Things is a network of devices — all of which connect over the internet — that can share data in a business network. This emerging technology offers businesses opportunities for gathering data and automating processes.

- Gartner¹ expects that, by 2020, there will be 8 billion IoT devices in place. In 2016, IoT added roughly 5.5 million devices per day.

How Do the Cloud and IoT Work Together?



Reduce complexity

Deploying an IoT solution can come with risks, rewards, and complications.

The cloud makes it easier to implement connected devices and skirt some of the traditional problems with increasing your number of endpoints.

An increasingly resilient cloud

In 2015,² Amazon Web Services (AWS) had 2.5 hours of downtime for the whole year. That increased in 2017, following an incident that took the service down for 4 hours.

0.03% downtime is impressive and provides assurance of device uptime.

Cloud computing is location-agnostic

The cloud doesn't care about location. It works wherever a connection can be provided.

With IoT expanding remote work — fleet management, outpost monitoring, etc. — a platform to handle that is vital.

Better security

Symantec³ found that IoT attacks were up six-fold between 2016 and 2017.

The cloud can serve as a way to block unauthorized traffic from IoT devices, reducing the effect of IoT attacks.

Fog computing

Cisco's developments in fog computing work to improve the combination of IoT and cloud computing by letting IoT devices actually perform analysis without having to communicate back.

This takes out a potential point of failure in security and makes the devices more valuable.



What to Do to Improve the Cloud and IoT's Combined Effort

For the best combination of the cloud and IoT, start by reaching out to us at [eXemplify](#). We bring our own combination of the best partners and years of experience to deliver the industry's top solutions to your business. Just get in touch with us to help make the cloud and IoT work together for you.

SOURCES:

1. <http://www.gartner.com/newsroom/id/3165317>
2. <https://www.networkworld.com/article/3020235/cloud-computing/and-the-cloud-provider-with-the-best-uptime-in-2015-is.html>
3. <https://www.techrepublic.com/article/as-iot-attacks-increase-600-in-one-year-businesses-need-to-up-their-security/>