

# Security in Billions

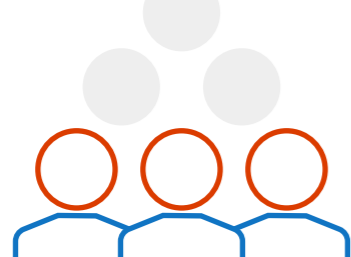
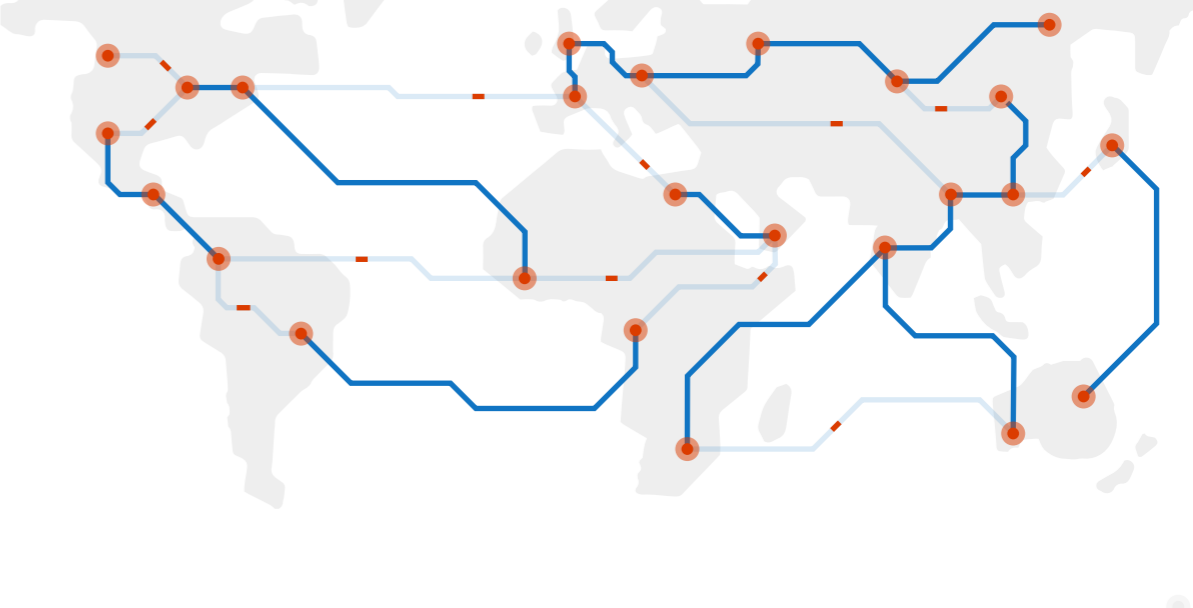
Microsoft's security intelligence



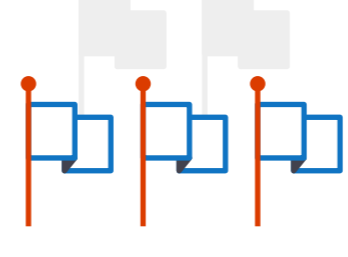
Big data is transforming how security experts defend against cyberattacks—and Microsoft is leading the way. Our global reach generates billions of data points that help us diagnose attacks, reverse engineer advanced threat techniques, and apply intelligence to strengthen your security.

## The Footprint

Every day, millions around the world use Microsoft products and services. As our customers get to work, Microsoft actively builds a secure ecosystem through detecting and defending against software vulnerabilities, unauthorized logins, suspicious web activity, and more.



**1 billion customers** over enterprise and consumer segments<sup>1</sup>



**192 countries** with devices running Windows 10 (nearly every country in the world)<sup>1</sup>



More than **100 data centers** and **1 million physical servers**<sup>2</sup>



More than **200 cloud services**<sup>2</sup>

## The Range

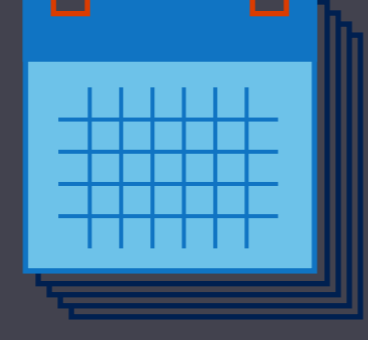
Big data's power lies in analyzing numbers too large to comprehend. With the data generated by Microsoft's worldwide network reaching into the billions, here's some perspective.



### Just how much is 1 billion?



1 billion seconds equals 32 years



1 billion people equals the population of 117 New York cities



A marble enlarged 1 billion times equals 4x the Earth's size



1 billion dots this size would fill over 10,000 pages of copy paper

Microsoft analyzes many billions of data points every month, building intelligence that is as in-depth as it is far-reaching.<sup>2</sup>



**450 billion**

450,000,000,000

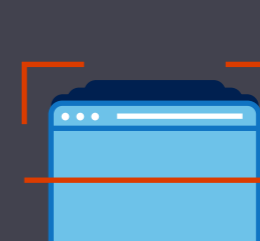
cloud authentications analyzed per month



**400 billion**

400,000,000,000

emails analyzed for malware and malicious sites



**18 billion**

18,000,000,000

Bing webpage scans per month



**1 billion**

1,000,000,000

Windows devices updated monthly



**\$15 billion**

\$15,000,000,000

invested in Microsoft cloud infrastructure



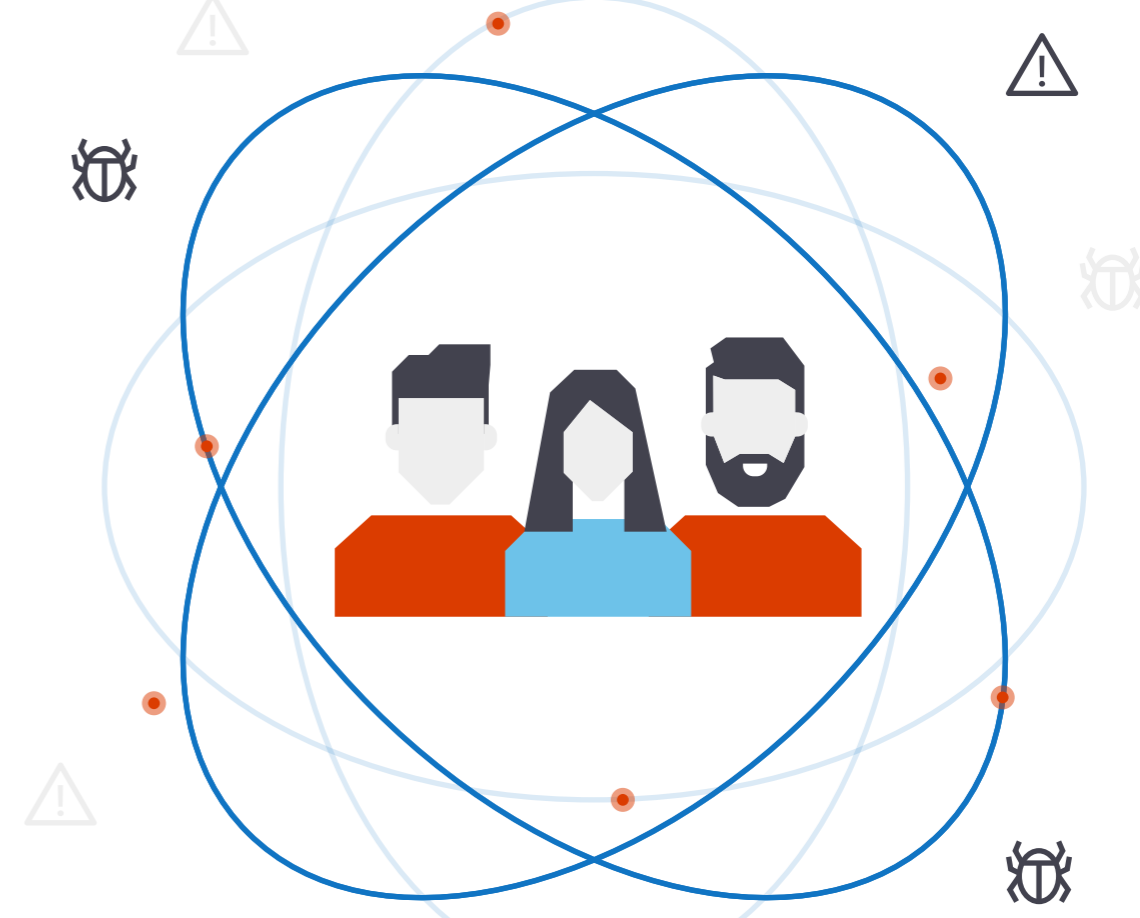
**\$1 billion**

\$1,000,000,000

annually spent on security

## The Insights

The point of all this security intelligence is to actively protect the information of enterprises and customers that rely on Microsoft every day. Building advanced analytics helps ensure that your foundation is the Microsoft, fully integrated, and adaptable for your needs.



**1. Identity and access management** that gives access to authorized users only:

- Ensures secure sign-in
- Safeguards credentials



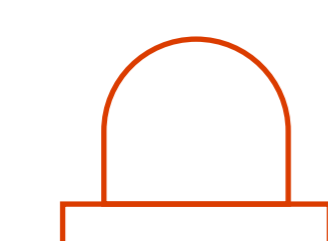
**2. Threat protection** that empowers organizations to stay ahead of advanced threats:

- Detects malicious activity
- Responds to threats quickly



**3. Information protection** that optimizes data management for various levels of sensitivity:

- Classifies data appropriately
- Monitors how data is used and distributed



**4. Security management** that provides robust visibility and control over your environment:

- Understands and enhances your security state with recommendations
- Defines and controls custom security policies

Microsoft continues to transform worldwide security intelligence into products and insights that power and protect our customers' connections.

Learn more about how the breadth and depth of our security works for you at [microsoft.com/security](https://microsoft.com/security).

<sup>1</sup> "Microsoft by the Numbers," 2017, Microsoft Story Labs  
<sup>2</sup> "7 Steps to a Holistic Security Strategy," 2017, Microsoft  
<sup>3</sup> "Intelligent Security: Using Machine-Learning to Help Detect Advanced Cyber Attacks", 2016, Microsoft