

## The Scale of **BrightCloud® Machine Learning**



BrightCloud Threat Intelligence can catch the most elusive, never-before-seen threats.

## How? It's simple.

learning is unmatched, enabling our technology partners to integrate real-time, highly accurate, predictive intelligence to stay ahead of internet threats.

The scale, speed and volume of BrightCloud's machine

## Let's talk about scale.

You want to talk about scale?



each internet object that we classify

We then train the machine by assigning up to 40 million weights to our models

BrightCloud has the potential to capture up to 10 million input characteristics for



BrightCloud classifies millions of internet objects every day to determine if they are benign or malicious



1000

BrightCloud trains and publishes 1,000

These characteristics create a "feature space" for internet objects. The location of an object in this "feature space" defines the object. This massive feature space is what enables BrightCloud to

models a day

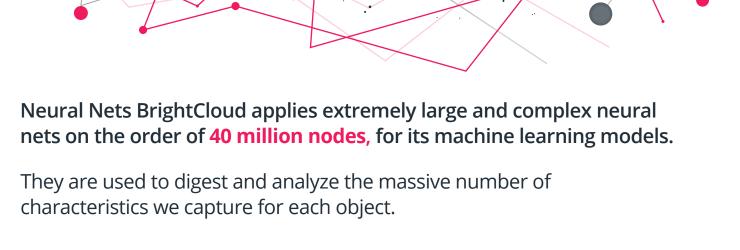
BrightCloud's cloud-based platform has the potential to capture

millions of characteristics for each object being classified.

**Neural Nets** 

effectively categorize brand new, zero-day internet objects.





**Processing Power** 

At present, the training of a BrightCloud model utilizes

approximately 10 million data points to determine

San Diego Supercomputer Center at the University of California, San Diego, typically leveraging up to one terabyte of RAM and 40-50 nodes.

40 to 50 million model parameters.



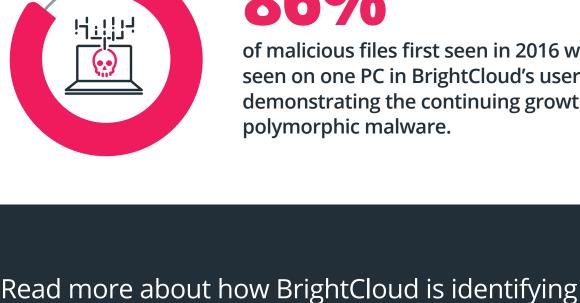
**Real World Results** 

New unique files witnessed

by BrightCloud in 2016 alone.



Average of new files classified



of malicious files first seen in 2016 were only seen on one PC in BrightCloud's user base, demonstrating the continuing growth of polymorphic malware.

86%

zero-day threats using sixth-generation machine learning in our complimentary white paper, Automating Threat Detection with Advanced Machine Learning at Scale: The BrightCloud Approach

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