

# The Barracuda Solution

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# Barracuda Networks

## Barracuda Networks

- HQ in Campbell, California, founded in 2003, NYSE: CUDA
- Today: Market leader with 1200 employees

## Acquisition of **Phion** AG in 2009

- EMEA Headquarter: Innsbruck (Austria)
- NextGen Firewall development
- Support for all the products



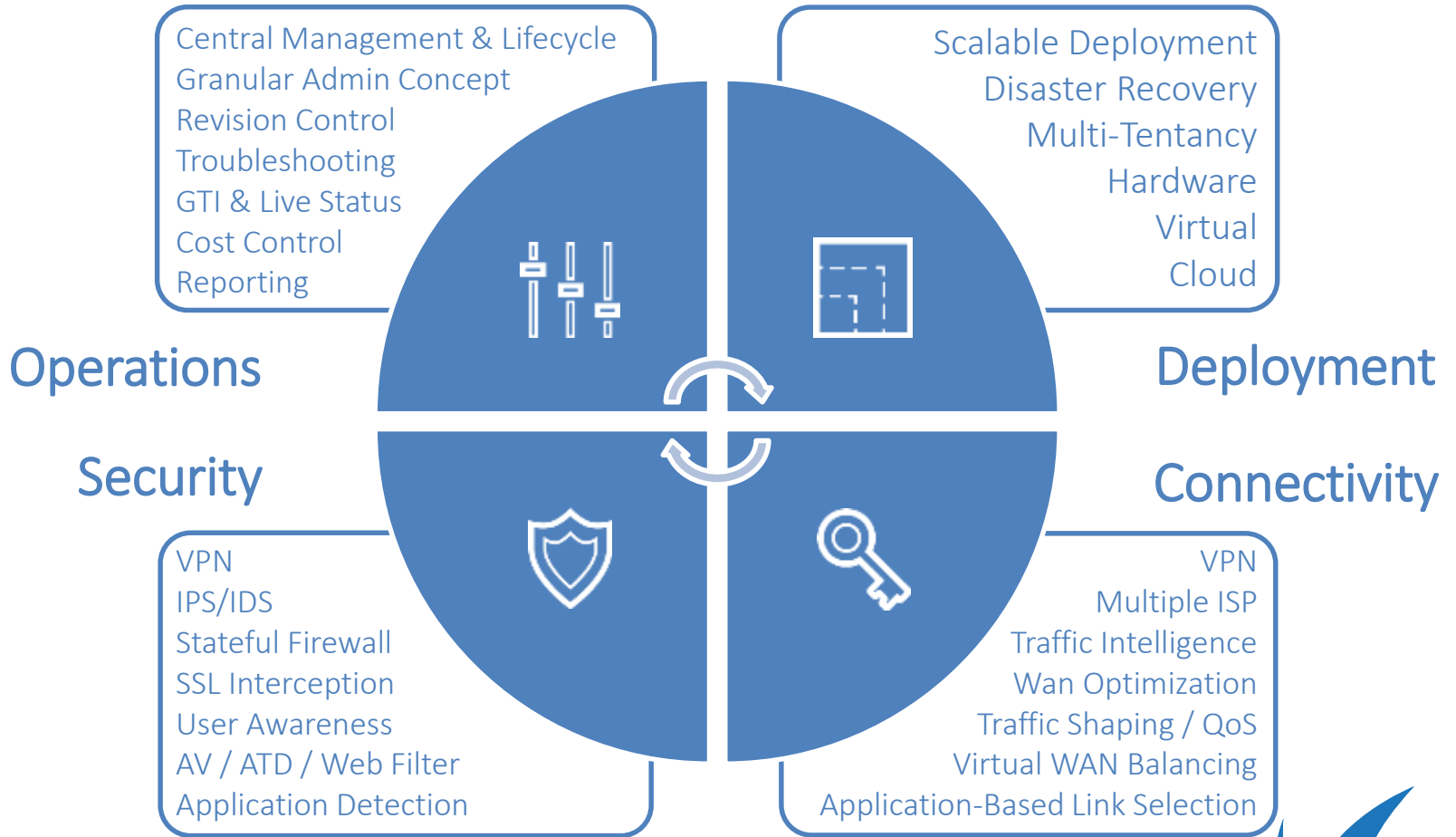
# The Evolution of the Firewall

WAN optimization  
Centralized management  
Scalability  
Remote network access  
Reporting/Audit capabilities  
Quality of Service (QoS)

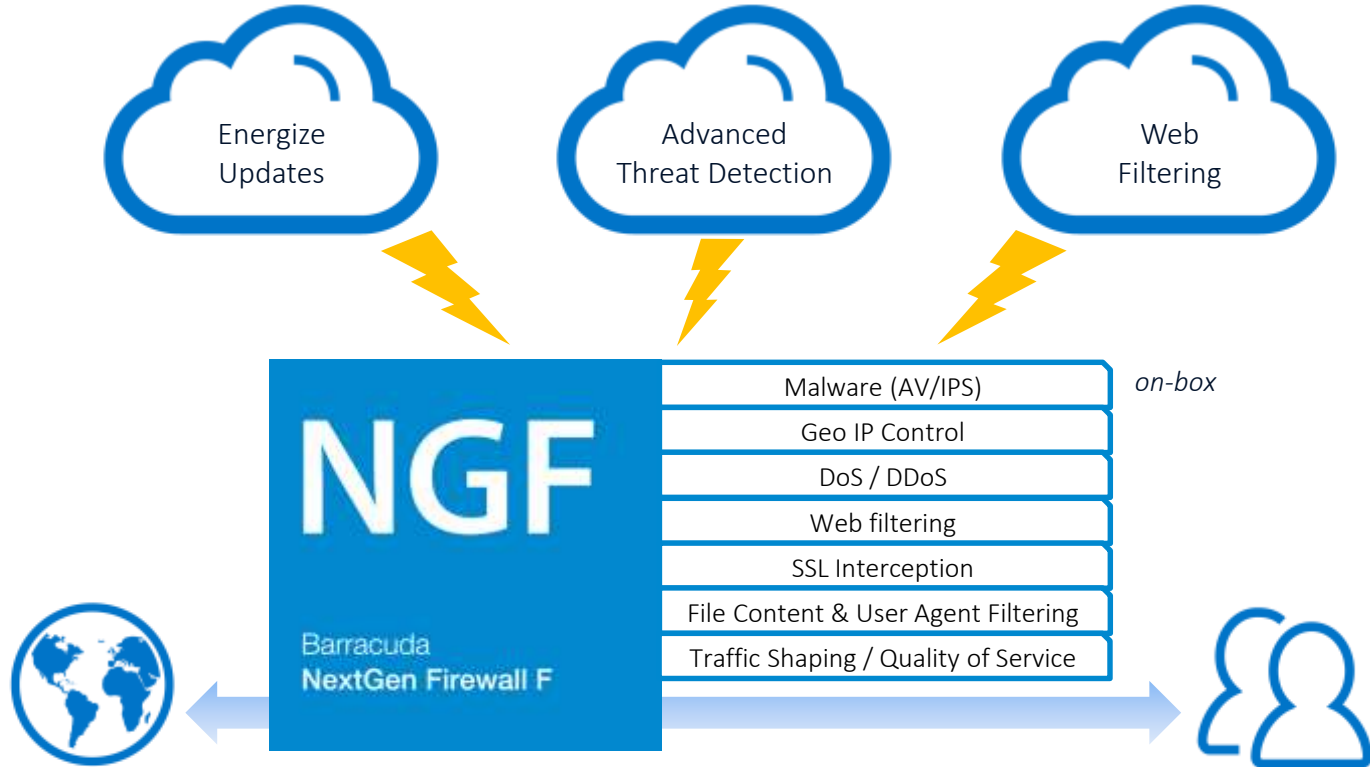
Application control  
Identity awareness

Ports, packets, protocols  
Anti-virus scanning

Traditional Firewall/UTM  
Next Generation Firewall  
Barracuda NextGen Firewall



# Full NextGen Security feature set



# Plenty of surface, here come the attacks

**Unknown Malware** for which **NO AntiVirus/Intrusion Prevention System signatures** exist yet, thus bypassing traditional defences.

**Advanced Malware** that can evade detection and/or establish CnC (Botnet) connections in order to exfiltrate corporate data

# Barracuda A<sub>dvanced</sub> T<sub>hreat</sub> D<sub>etection</sub> Service





Recycle Bin



WinSCP



CV Jose  
Palma



CV Jose  
Palma 2



Search the web and Windows

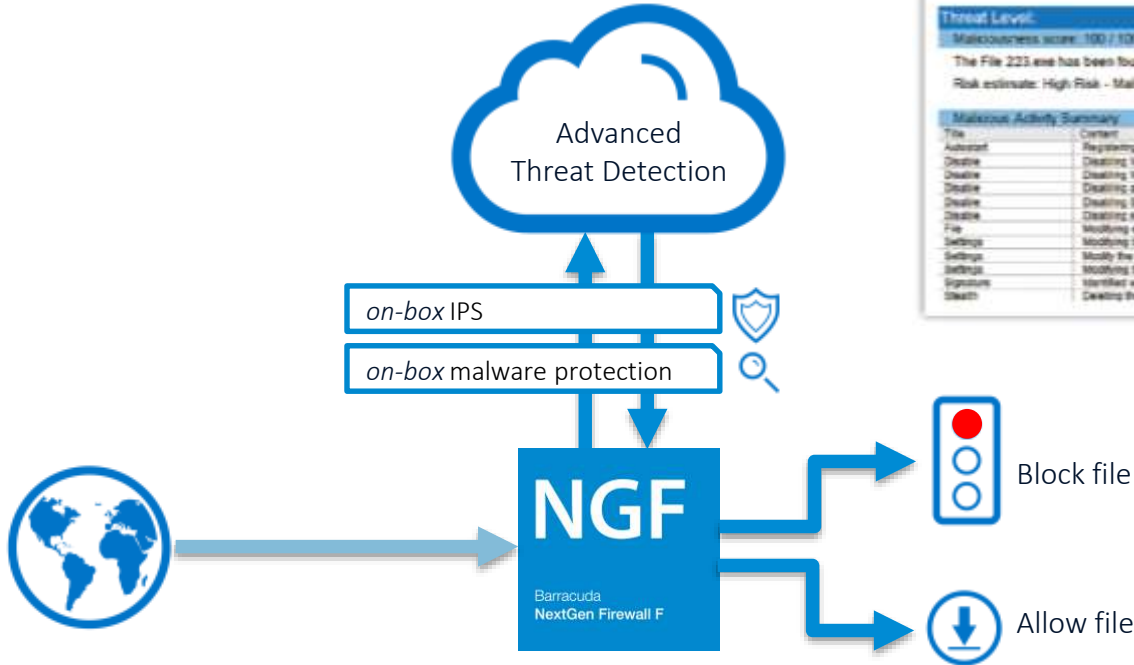


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# Advanced Threat Detection



Example for a Barracuda ATD Report that shows why a specific file was identified as advanced malware



Analysis Overview:	
MD5	07A6407956a4e153e1890c0719e4d
SHA1	828e29c4c719c5c094e30e7ad104088
SHA2 Type	application/x-ms-exe
File GUID	019c7778e40c80d4e1c710981

Threat Level:	
Maliciousness score: 100 / 100	
The File 223.exe has been found to be malicious.	
Risk estimate: High Risk - Malicious behavior detected!	

Malicious Activity Summary	
Title	Control
Adversary	Registering for subsystem during Windows boot
Disable	Disabling Windows File Protection
Disable	Disabling Windows Defender (disable minimal services)
Disable	Disabling administrator tools (registry, task history)
Disable	Disabling Security Center notifications
Disable	Disabling system restore
File	Modifying entries in Windows directory
Settings	Modifying the display of hidden files
Settings	Modify the name of the local user by default
Settings	Modifying the IPv6 automatic configuration
Signature	Identified worm code
Stealth	Deleting the sample after execution





# How does ATD Work?

ATD belongs to the Virus Scanner.

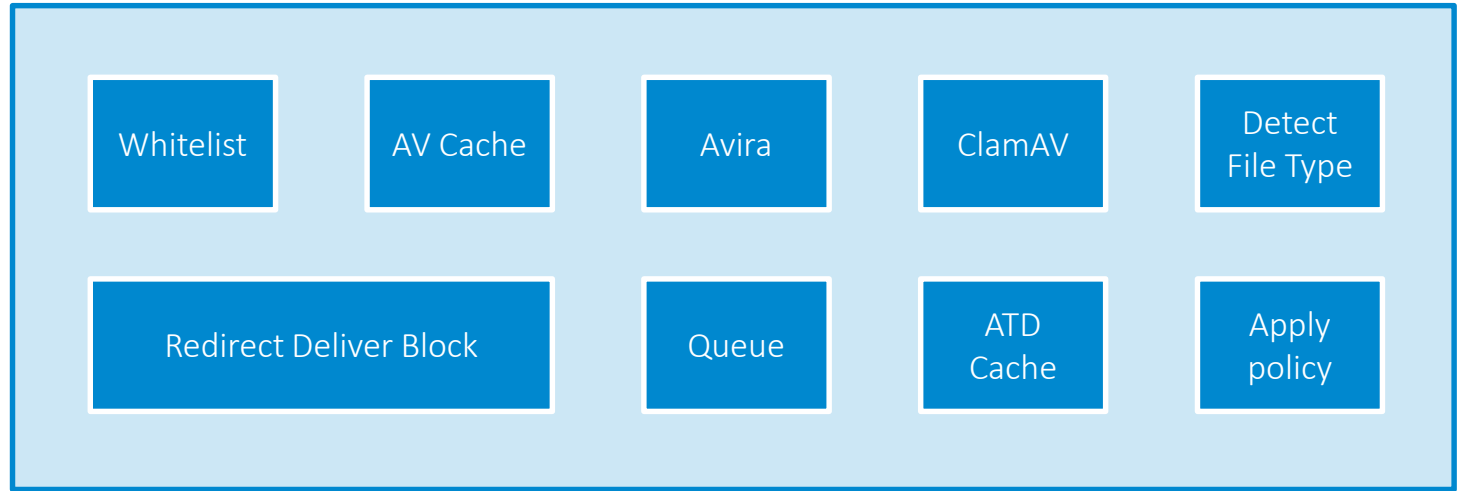
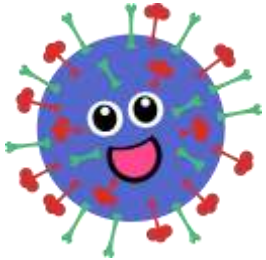
Virus Scanner is the content adaptation service.

Really complex process.

File decompression, ATD servers geo localization, reporting, UI communication, caching, fast file type detection, templates, threat reporting, event notification, mail notification, fail open/close policies, HA, etc...



# How does ATD Work?



Synchronous



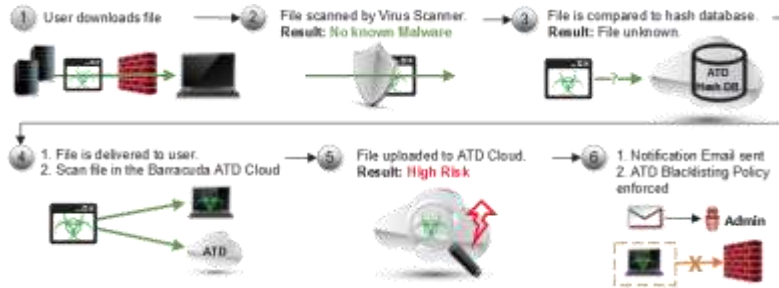
# ATD Synchronous – Apply Policy

Configured policy.

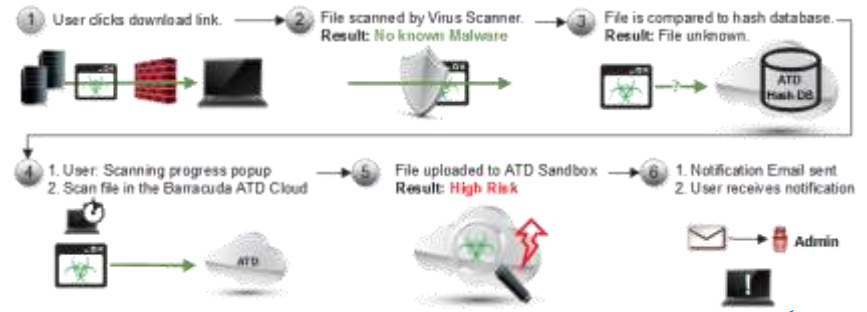
File type.

Communication protocol.

## Deliver first, then Scan



## Scan first, then Deliver



# The Barracuda NG Firewall Product Line

## Dedicated VPN Clients



## SSL VPN Mobile Support



## User Interface / Tools



## Branch Office Firewalls



## Head Office / Core Firewalls



## Control Center Servers



## Public Cloud



Microsoft Azure

Certified

Vx

vmware

Microsoft Hyper-V

KVM

Xen



# Protecting Data: IT's Most Critical Service



# Traditional Backup is Complicated

Highly diverse environments with  
**fragmented backup methods and policies**

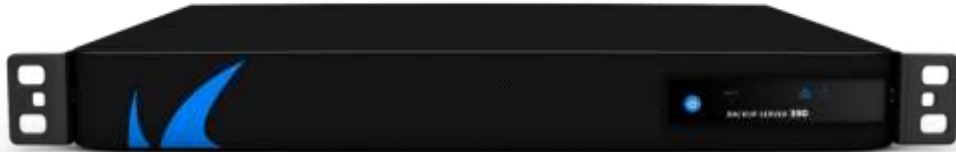


Multiple vendors and complex deployments  
**with labor intensive management**



# Barracuda Backup is Easy

Cloud-integrated complete data protection for  
physical, virtual, and SaaS environments



# Barracuda Backup Protects Your Environments

Unified, cost-efficient data protection solution for your  
physical and virtual environments

Applications



Hypervisors



- ✓ CIFS/SMB
- ✓ SSHFS

Operating Systems



Storage Devices

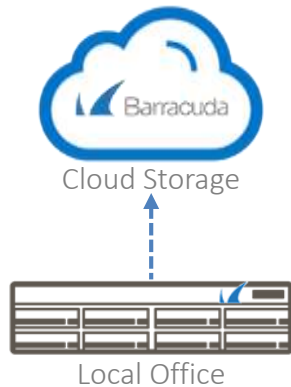




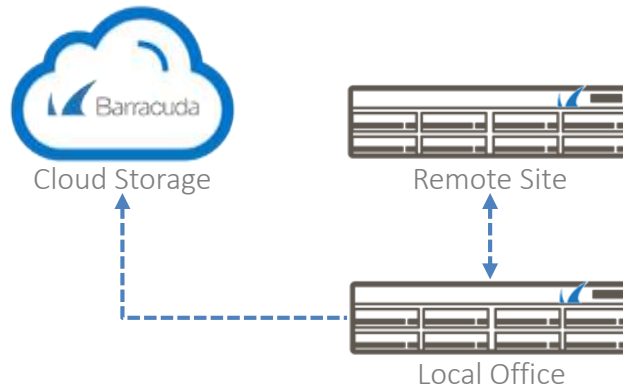
# Barracuda Backup Offers Flexible Deployments

Built-in cloud and site-to-site replication  
prevent data loss in case of disaster

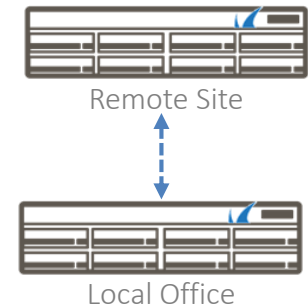
Cloud



Hybrid

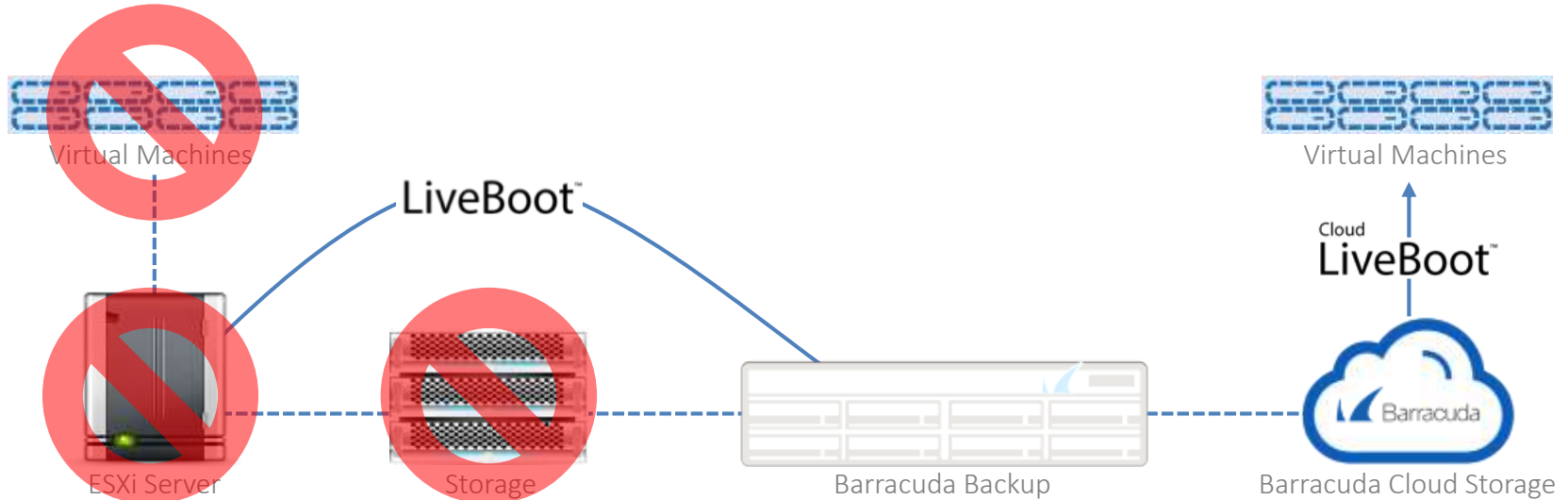


Site-to-site



# Barracuda Backup Keeps You Up and Running

LiveBoot and Cloud LiveBoot for VMware  
recover virtual machines in minutes



# Barracuda Backup is Scalable

Solutions from 500 GB to over 100 TB  
that scale and grow with your business



	Backup 190	Backup 290	Backup 390	Backup 490	Backup 690	Backup 890	Backup 990	Backup 1090
Usable Capacity	500 GB	1 TB	2 TB	4 TB	8 TB	16 TB	36 TB	112 TB
Suggested Backup	250 GB	500 GB	1 TB	2 TB	4 TB	8 TB	16 TB	50 TB

Thank You

