

## ONE-MINUTE WEBINAR

Next-generation firewalls:  
A critical part of your security stack

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Turns Information  
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## Understanding Next-Generation Firewall (NGFW) Basics

Using traditional firewalls to protect today's hybrid environments—with complex cloud operations and systems scattered around the globe—can make a security team feel lost or constantly behind.

Next-generation firewalls (NGFWs) use a new technology to include in every security stack. NGFWs provide more advanced and comprehensive security capabilities than traditional firewalls, including:

- **Advanced threat protection:** Traditional firewall rules based on network protocol basics, such as traffic protocol, IP address, and/or ports, are easily evaded by today's malware authors. NGFWs often incorporate signature- and behavior-based analytics to identify malicious traffic.
- **Application control:** Unlike traditional firewalls, NGFWs are application aware. They can often inspect and categorize traffic at the application layer, including traffic to/from specific applications or application programming interfaces (APIs).
- **Improved visibility:** With deeper insight and profiling of network traffic, NGFWs can provide additional visibility into real-time network traffic analysis.
- **Streamlined regulatory compliance:** With more advanced visibility and detection capabilities, NGFWs can enforce security controls to help keep organizations compliant with regulatory requirements.
- **Cost savings and simplified deployment:** NGFWs can reduce security overhead—particularly in cloud environments—allowing an organization to gain NGFW benefits with a few more clicks.
- **Business continuity:** NGFWs lower the risk of business impact simply by being more capable and integrated. Unified and integrated platforms make it harder for successful breaches, and this minimizes downtime due to cyberattacks.

#2

## NGFW Implementation

Implementing an NGFW into your security stack, especially within a cloud environment, is a straightforward process. The steps below use the AWS Marketplace-Certified Digital catalog as an example:

1. Research NGFW solutions to determine one that can integrate with your current stack or offers the benefits you most value.
2. Plan for an NGFW implementation. This may include defining your cloud footprint, network topology and defining security policies.
3. If needed, schedule proof-of-concept to test NGFW solutions against what your security team requires. Make sure to evaluate support options in addition to technological capabilities.
4. Once you select a vendor, get to work on the within the AWS Marketplace to work through another necessary journey you may have established in an earlier step.



Image of NGFW solutions available in AWS Marketplace.

#3

## NGFW Use Cases

## Use case 1: Securing enterprise applications

To protect cloud assets, teams can deploy cloud-first NGFWs with a few clicks to inspect traffic at the application level, offering protection that traditional firewalls can't. Cloud-based NGFWs scale easily, integrate with cloud provider APIs—allowing for automatic policy configuration based on the current cloud environment—and central management across all cloud applications, regardless of "where" they are deployed.

## Use case 2: Unified management

Implementing NGFWs as a single appliance at physical locations and at key cloud junctions provides a unified platform for network security management, eliminating the need to maintain multiple security devices at each location. An NGFW offers enhanced features—including intrusion prevention, application awareness, and deep packet inspection—and can implement policies based on specific users, applications, and devices, all while monitoring network traffic in real-time.

## Use case 3: Defending against the unknown

All organizations need to consider defenses against novel attacks without known detection mechanisms. For these attacks, the NGFW's advanced behavioral analysis is useful for detecting suspicious activity without knowing exactly what it is. Analysis of patterns of anomalous activity that falls outside typical user activity, and potentially other indicators, may conclude that an attack is ongoing and implement prevention measures. If behavioral analysis alone cannot identify an unknown attack, many NGFWs also utilize machine learning to detect patterns incidentally suspicious behavior. Teams can use monitoring to isolate and analyze suspicious network traffic in a secure environment.

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See it in Action: Barrett Steel  
Turns Information Security  
Into a Business Enabler

## Challenge

Multiple strong information security areas are premium and cloud assets and simplify administration for a team of team that faced performance limitations in its hard-to-manage legacy security infrastructure.

## Solution

The Palo Alto Networks NGFW suite and the Prisma/Cloud platform centralize all network security management for Barrett Steel, as well as intelligently detect and disrupt cyberthreats. The company can now centralize traffic based on application type and user role while enabling secure remote work.

## Results

Barrett Steel automatically detects and prevents phishing attacks on-premise and in the cloud and has simplified security management for their team. The company has ensured that its cloud applications conform with security policies as it supported a 10x increase in remote workers.



“

The fact that we have been able to run and grow our business without any major issues is, in my part, because of the strong security product and/or technology enabling us to deliver from Palo Alto Networks.”

—John Barrows  
Chief Information Security Officer  
Barrett Steel

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## Summing it Up

In a rapidly evolving development, deployment, and threat environment, today's organizations seek equal skills in security technologies to keep up with modern threats. NGFWs help solve this challenge. Analysts can use NGFWs to perform packet inspection, automatically detect anomalous behavior, and help the security team secure application assets. All in all, NGFWs are multi-capability devices that offer network inspection and detection capabilities that traditional firewalls simply can't match.

## Next Steps

Explore the role of NGFWs  
with these AWS Partners

AWS Security Partners have NGFW solutions to help protect your workloads from malicious or unauthorized traffic.


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## Additional Resources



## Watch the webinar

What is a next-generation firewall and why does it matter?

[View on demand](#)


## Read the whitepaper

NGFW: A critical part of your security stack

[Download now](#)


## Discover solutions

Find the tools you need to complement next-generation firewalls (NGFWs) to detect and protect your assets.

[Visit AWS Marketplace](#)


## Talk to an expert

Get connected with a solution architect that can share best practices and help solve your business challenges.

[Get connected](#)