

Automating Security Best Practices on AWS

Integrate application security into CI/CD processes with AWS, Barracuda, and Puppet



puppet



Barracuda Networks is an AWS Partner Network Advanced Technology Partner

Puppet is an AWS Partner Network Advanced Technology Partner

Application Security Obstructs Development Agility

Agile application development, deployments, and updates are vital to keep pace with today's business demands. Amazon Web Services (AWS) and DevOps automation tools, like Puppet, are used by many businesses to accelerate their application lifecycle. Layer 7 security however, remains an afterthought to many developers and security services are typically provisioned at the end of the application deployment lifecycle. As a result, issues are often discovered only after development has been completed. In addition, traditional security tools require manual configuration and testing. This results in longer deployment cycles, and increased costs – as well as increased risk to compliance mandates.

Integrate Security Directly into Development Workflows

Barracuda and Puppet have collaborated on a joint solution to help you accelerate application development cycles while upholding AWS security best practices. Puppet helps you rapidly provision, configure, and manage AWS resources, while the Barracuda CloudGen Web Application Firewall (WAF) protects your deployments. As a result, you introduce security directly into your development workflows, in turn implementing DevSecOps practices to enhance application protection with very little effort. By automating the deployment of AWS security best practices for applications, you can remove manual testing and configuration of security, enabling continuous deployments. Additionally, you can more easily meet compliance standards.

Benefits of DevSecOps with Barracuda and Puppet on AWS

By accelerating the deployment of secure infrastructure on AWS, Barracuda and Puppet enable a multitude of advantages for your AWS environment. With this solution, you can:



Consistently Deploy AWS Security Best Practices for Web Applications

Rapidly secure application vulnerabilities on an ongoing basis



Accelerate Application Lifecycles by Incorporating Security

Integrate security at every stage of the application lifecycle



Minimize Web Application Downtime

Use blue-green deployments to minimize downtime



Continuously Maintain Compliance

Simplify compliance with regulatory requirements

Solution Space

Discover scalable solutions that help you achieve your business needs through a combination of AWS services and APN Partners that have attained AWS Competency designations. Based on architectures validated by AWS to accelerate your cloud transformation, you can deploy solutions quickly from AWS Marketplace and leverage optional consulting offers provided by APN Partners.

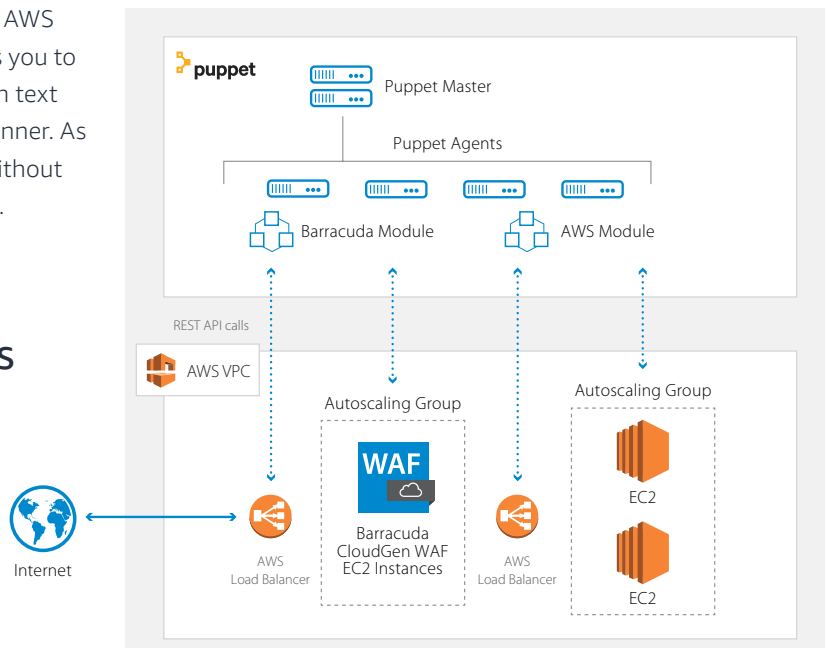
[Visit here for more information.](#)

The AWS Solution

AWS enables the use of this joint solution by providing APIs that allow you to manage Infrastructure as Code (IaC). In particular, you can quickly and reliably provision infrastructure using AWS CloudFormation templates. AWS CloudFormation enables you to model your entire infrastructure as a single source of truth text file and provisions your resources in a safe, repeatable manner. As a result, you can rebuild infrastructure and applications without having to perform manual actions or write custom scripts.

Accelerate the Secure Deployment of Web Applications

By incorporating application security directly into the code building process – in turn, removing manual testing and configuration – the Barracuda CloudGen WAF Module for Puppet Enterprise accelerates proven security best practices so that they complement your DevOps practices, rather than hinder them.



Getting Started

AWS, Barracuda, and Puppet enable your development teams to focus on building innovative applications instead of worrying about security control. Explore the following resources to learn more about [Automating Security Best Practices on AWS](#).

Learn more about the Barracuda CloudGen WAF on [AWS Marketplace](#)

Learn more about Puppet Enterprise on [AWS Marketplace](#)

Configure the Barracuda CloudGen WAF Module on [Puppet Forge](#)



About AWS: For 10 years, Amazon Web Services has been the world's most comprehensive and broadly adopted cloud platform. AWS offers over 100 services for compute, storage, databases, analytics, mobile, Internet of Things (IoT) and enterprise applications from 49 Availability Zones (AZs) across 18 geographic regions in the United States, Canada, Europe, Asia, Australia and South America. AWS services are trusted by more than a million active customers around the world – including the fastest growing startups, largest enterprises, and leading government agencies – to power their infrastructure, make them more agile, and lower costs. To learn more about AWS, visit <http://aws.amazon.com>.

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