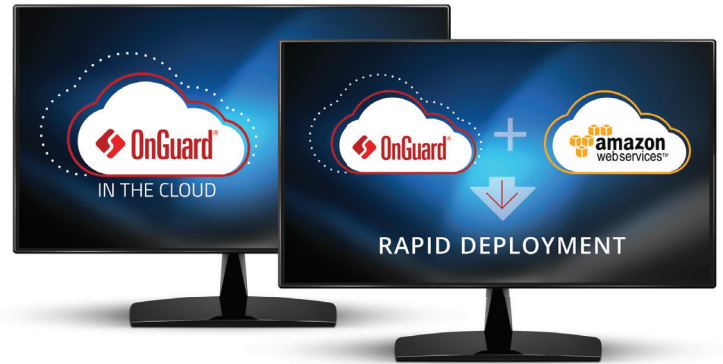


OnGuard Cloud Edition

The full OnGuard experience in the cloud with Amazon Web Services



Rapidly provision a new configuration of OnGuard in the cloud

OnGuard® Cloud Edition is an alternative OnGuard package accessed and deployed from the cloud via Amazon Web Services™ (AWS). Leveraging a cloud environment, OnGuard Cloud Edition, in combination with Amazon AWS, provides convenient, on-demand access to computing resources, reducing or removing the need for organizations to invest in costly server infrastructure and the personnel to operate them. OnGuard Cloud Edition simplifies deployment, enabling customers to get OnGuard up and running quickly and easily on a virtual machine.

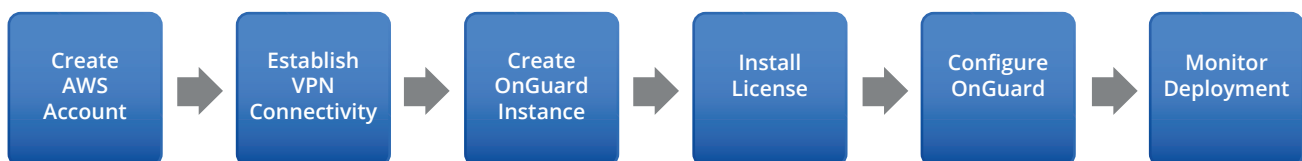
How it works

OnGuard Cloud Edition is an Amazon Machine Image (AMI) available on the Public Machine Images section of AWS. AMIs contain an independent operating system and can also include software and layers of applications, such as database servers, middleware, web servers and more. According to Amazon, “an

Benefits

- Lowers capital costs through lease of virtualized resources, eliminating the need to purchase dedicated server hardware
- Reduces operating costs by eliminating labor costs for server maintenance
- Simplifies highly distributed and global deployments
- Provides high levels of built-in redundancy
- Simplifies IT compliance requirements
- Speeds up configuration of OnGuard deployment
- Retains same licensing model as on-premise OnGuard

Amazon Machine Image (AMI) is a special type of pre-configured operating system and virtual application software which is used to create a virtual machine within the Amazon Elastic Compute Cloud™ (EC2). It serves as the basic unit of deployment for services delivered using EC2.” Instantiating OnGuard Cloud Edition onto a virtual machine can take as little as 30 minutes.



Suggested AMI Machine Configurations for OnGuard Cloud Edition

OnGuard® Cloud Edition Single Server Deployment Configuration

For simpler installations, this configuration consists of a single AMI and will instantiate all of the OnGuard server components into a single EC2 (virtual machine) instance. The Single Server AMI contains all of the components necessary to create a 32-ES or ADV System, including pre-packed SQL Express®. (Please note, it is the customer's responsibility to establish VPN connectivity between AWS and their on-premise network.)

OnGuard Application, Communications and Database Server	
AMI Name	OnGuard Cloud Edition-APP-SERVER
Installed Components	- Windows® Server 2019 - Microsoft® SQL Server® Express 2017 - OnGuard - latest version
Optional Application Installation Files	- OnGuard Cardholder Self Service - latest compatible version - OnGuard WATCH - latest compatible version - OnGuard Policies - latest compatible version
OnGuard Services	All services
Host Name	OG-APP-SERVER
Visibility	Public
Region	US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)
Suggested Instance Type	m4.large

OnGuard® Cloud Edition Multi-Server Deployment Configuration

For higher capacity installations, several AMIs are orchestrated to create an OnGuard system composed of multiple EC2 (virtual machine) instances, customizable to the scale required. A multi-server configuration requires an OnGuard Application Server and the OnGuard Database Server for systems of 100 readers or less. For every 100 readers beyond the initial 100 hundred readers, an OnGuard Communications Server is required. (Please note, it is the customer's responsibility to establish VPN connectivity between AWS and their on-premise network.)

	OnGuard Application Server	OnGuard Communications Server	OnGuard Database Server
AMI Name	OnGuard Cloud Edition-PRO-APP-SERVER	OnGuard Cloud Edition-PRO-COM-SERVER	OnGuard Cloud Edition-PRO-DB-SERVER
Installed Components	- Windows Server 2019 - OnGuard - latest version	- Windows Server 2019 - OnGuard - latest version	- Windows Server 2019 - Microsoft SQL Standard 2017
Optional Application Installation Files	- OnGuard Cardholder Self Service - latest compatible version - OnGuard WATCH - latest compatible version - OnGuard Policies - latest compatible version		
OnGuard Services	All services	LS Communication Service	N/A
Host Name	OG-APP-SERVER	OG-COM-SERVER	OG-DB-SERVER
Visibility	Public	Public	Public
Region	US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)
Suggested Instance Type	m4.large	m4.large	m4.large

Licensing

- OnGuard Cloud Edition AMIs are licensed in the same fashion as traditional versions of OnGuard. Licenses are available for OnGuard 32ES, ADV and PRO systems. Existing OnGuard licenses can be converted to Cloud Edition licenses for a nominal charge.
- Prices and purchase models for the Amazon EC2 instances, and for Microsoft SQL Server Standard, may be found on the Amazon Web Services (AWS) website.
- Amazon EC2 instances, and Windows OS are procured via Amazon AWS and paid for using Amazon subscription service.

Where to start

- Links to the OnGuard Amazon Machine Images (AMIs) may be found on the LenelS2 Partner Center at partner.lenel.com.
- Additionally, the OnGuard Amazon Machine Images (AMIs) may be found directly in the Public Images section of your Amazon AWS console.
- For the OnGuard Cloud Edition AMI search by name for:
 - OnGuard Cloud Edition