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Overview of Cisco ISE instances on AWS

Overview of Cisco ISE on Amazon Web Services

You can seamlessly extend your existing Cisco ISE security policies to remote and cloud-based environments by deploying them on Amazon Web Services (AWS). By leveraging this integration, you gain the ability to maintain consistent access control and visibility for your users and devices, no matter where they are located. This approach allows you to simplify the management of your complex network while ensuring your security posture remains uniform across your entire infrastructure. Ultimately, you benefit from a scalable and flexible foundation that supports your modern, distributed network security needs.

You can configure and launch Cisco ISE in AWS through AWS CloudFormation Templates (CFTs) or Amazon Machine Images (AMIs).

Methods to launch Cisco ISE on AWS

You can configure and launch Cisco ISE in AWS through AWS CloudFormation Templates (CFTs) or Amazon Machine Images (AMIs). We recommend that you use CFTs through one of the ways in the following list. To launch Cisco ISE on AWS, perform one of the following procedures:

- Launch a Cisco ISE CloudFormation template through AWS Marketplace
- Launch Cisco ISE with CloudFormation template
- Launch a Cisco ISE AMI

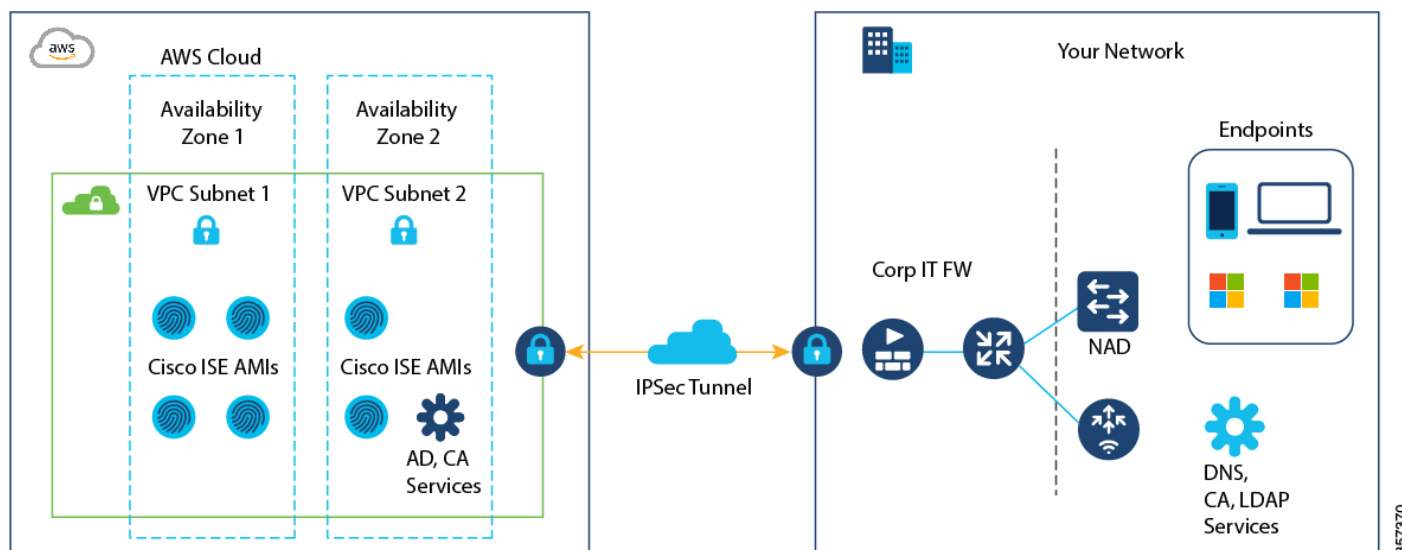
Overview of CFTs

CFTs are AWS solutions that allow you to easily create and manage cloud deployments. Extend your network into the cloud by creating a virtual private cloud in AWS and configure a virtual private gateway to enable communication with your organization's network over an IPsec tunnel.

Example of a deployment connected to AWS cloud

This illustration is only an example. You can place common services such as Certificate Authority (CA), Active Directory (AD), Domain Name System (DNS) servers, and Lightweight Directory Access Protocol (LDAP) on premises or in AWS, based on the requirements of your organization.

Figure 1: Example of a deployment connected to AWS cloud



References

For more information on using CFTs in AWS, refer to [AWS CloudFormation User Guide](#).

Cisco ISE instances and intended usage

This table contains details of the Cisco ISE instances that are currently available. You must purchase a Cisco ISE VM license to use any of these instances. For information on EC2 instance pricing for your specific requirements, refer to [Amazon EC2 On-Demand Pricing](#).

Table 1: Cisco ISE instances

Cisco ISE instance type	CPU cores	RAM (in GB)
t3.xlarge This instance supports the Cisco ISE evaluation use case. 100 concurrent active endpoints are supported. From Cisco ISE release 3.5, t3.xlarge instance type is not supported.	4	16
m5.2xlarge	8	32
c5.4xlarge	16	32
m5.4xlarge From Cisco ISE release 3.3, m5.4xlarge instance type is not supported.	16	64
c5.9xlarge	36	72

Cisco ISE instance type	CPU cores	RAM (in GB)
m5.8xlarge	32	128
m5.16xlarge	64	256
c7i.4xlarge*	16	32
m7i.2xlarge*	8	32
m7i.8xlarge*	32	128
m7i.16xlarge*	64	256

*Cisco ISE releases 3.4 patch 4, 3.5, and later support M7i and C7i instance types on AWS.

You can leverage the AWS S3 storage service to easily store backup and restore files, monitoring and troubleshooting reports, and more.

Attention

- If you use a general purpose instance as a PSN, the performance numbers are lower than the performance of a compute-optimized instance as a PSN.
- m5.2xlarge and m7i.2xlarge instances must be used as Extra Small PSN only.

Intended use of specific instance types

This table categorizes some of the instance types and their intended usage.

Table 2: Instance types and their intended usage

Instance category	Instance type example	Intended use
Compute-optimized instances	c5.4xlarge c5.9xlarge c7i.4xlarge	• Compute-intensive tasks or applications • Policy Service Node (PSN)
General purpose instances	m5.4xlarge (This instance is available only in Cisco ISE release 3.2 and earlier releases.) m5.8xlarge m5.16xlarge m7i.8xlarge m7i.16xlarge	• Data processing tasks and database operations • Policy Administration Node (PAN) or Monitoring and Troubleshooting (MnT) nodes, or both

References

For information on the scale and performance data for AWS instances, refer to [Cisco ISE Performance and Scale guide](#).