

# Install Secure Web Appliance on Microsoft Hyper-V

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## Introduction

This document describes the steps required to install the Secure Web Appliance (SWA) on Microsoft Hyper-V.

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- SWA administration.
- Fundamental networking principles.
- Microsoft Hyper-V administration.

Cisco recommends that you have:

- Microsoft Hyper-V Installed.
- Administrative Access to the Microsoft Hyper-V.
- Valid Cisco Account to Download the SWA Image file.

### Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Microsoft Hyper-V

Hyper-V is a powerful virtualization platform developed by Microsoft that allows users to create and manage virtual machines (VMs) on a Windows operating system. It provides a robust environment for

running multiple operating systems simultaneously on a single physical host, making it an ideal choice for businesses looking to optimize their IT infrastructure.

In this article, we guide you through the essential steps to install SWA on Hyper-V. Cisco SWA is a dedicated web security solution designed to protect organizations from cyber threats by monitoring and controlling Internet traffic. Our step-by-step instructions help you configure and deploy Cisco SWA efficiently on your Hyper-V environment, ensuring enhanced security and performance for your network.

## Download the Image

To download the desired and latest SWA Images, use these steps:

**Step 1.** Navigate to <https://software.cisco.com/>.

**Step 2.** Log in with your Cisco Account

**Step 3.** Choose **Access Downloads**.

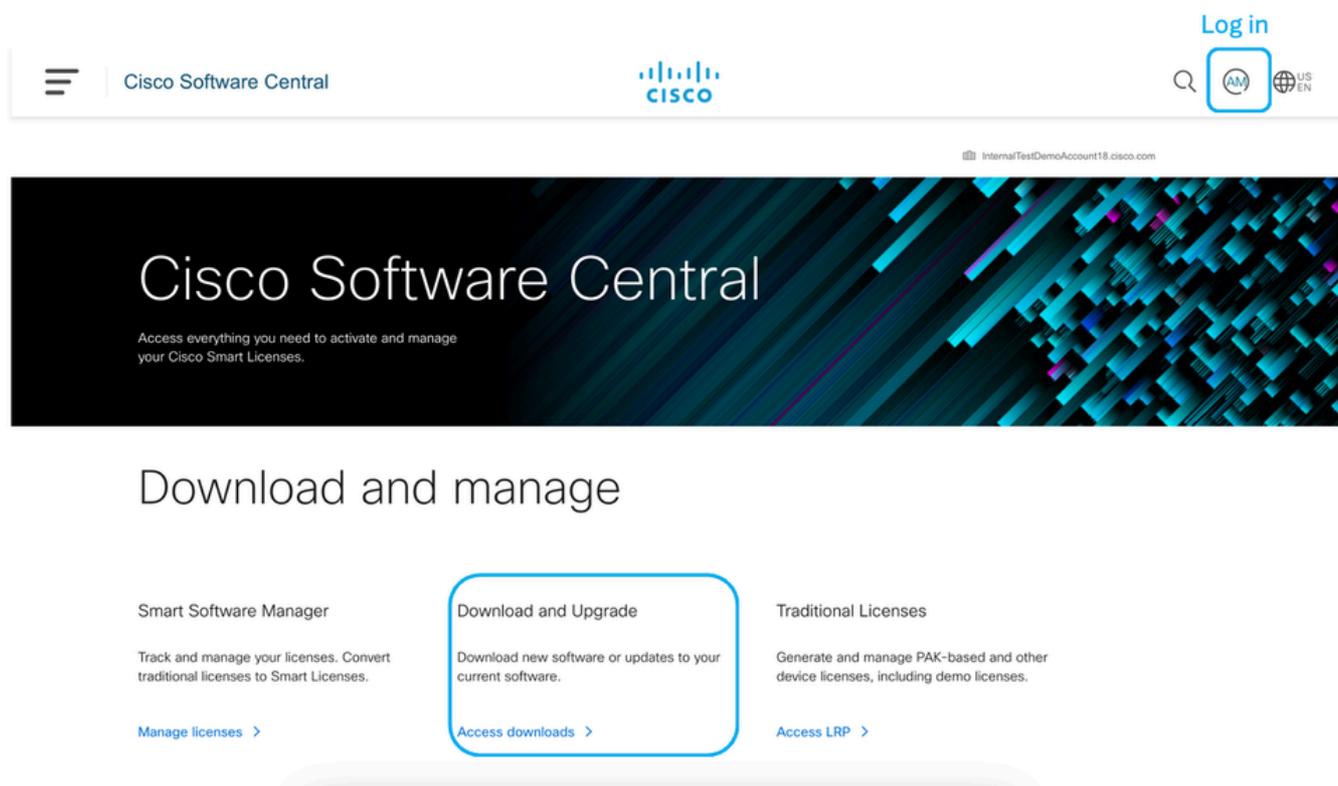


Image - Cisco Software Central

**Step 4.** Search for "Secure Web Appliance Virtual".

## Software Download

### My Previous Downloads

Product	Software Type	Latest Release	Last Downloaded
Secure Web Appliance Virtual	AsyncOS for WSA	15.2.1 MD	15.2.0(GD)
Secure Web Appliance Virtual	AsyncOS for WSA	15.2.1 MD	14.5.1 MD
Secure Web Appliance Virtual	AsyncOS for WSA	15.2.1 MD	14.5.1 MD

[View all 9 Downloads >](#)

### Most Popular

#### Most Popular for Web Security

- Secure Web Appliance Virtual :14.5.1MD :As
- Secure Web Appliance Virtual :15.2.1 MD :As
- Secure Web Appliance Virtual :14.0.1 GD :As
- Secure Web Appliance Virtual :14.0.5 MD :As
- Secure Web Appliance Virtual :15.2.0(GD) :A:
- Secure Web Appliance Virtual :15.0.1 MR :As

### Select a Product

[Browse all](#)

Secure Web Appliance Virtual

[Downloads Home](#) / [Security](#) / [Web Security](#)

- Cloud and Systems Management
- Collaboration Endpoints
- Conferencing
- Connected Safety and Security
- Contact Center
- Data Center Networking
- Hyperconverged Infrastructure
- IOS and NX-OS Software

- Email Security
- Endpoint Security
- Firewalls
- Intrusion Prevention System (IPS)
- Network Security
- Network Visibility and Segmentation
- Next-Generation Intrusion Prevention System (NGIPS)
- Security Management

- Secure Email and Web Manager
- Secure Email and Web Manager Virtual
- Secure Web Appliance
- Secure Web Appliance Virtual
- Umbrella

Image- Search for Secure Web Appliance Virtual

### Step 5. Choose AsyncOS for WSA.

## Software Download

[Downloads Home](#) / [Security](#) / [Web Security](#) / [Secure Web Appliance Virtual](#)

### Select a Software Type

- AsyncOS for WSA
- Cisco Advanced Web Security Reporting

Image - Choose AsyncOS for WSA

### Step 6. Choose your desired version.

### Step 7. Download the Virtual Disk Image (.vhd) file associated with the model you would like to install.

# Software Download

Downloads Home / Security / Web Security / Secure Web Appliance Virtual / AsyncOS for SWA - 15.2.1 MD(MD)

Release

Search...

Expand All Collapse All

Suggested Release

14.5.1 MD(MD)

Latest Release

**15.2.1 MD(MD)**

14.5.3 MD(MD)

12.5.6 MD(MD)

11.8.3(MD)

All Release

Config Migration

15

14

12

11

## Secure Web Appliance Virtual

Release 15.2.1 MD **MD**

▲ My Notifications

File Information

File Information	Release Date	Size
coeus-15-2-1-011-S1000V.qcow2.tgz KVM build qcow image coeus-15-2-1-011-S1000V.qcow2.tgz Advisories	14-Oct-2024	4683.31 MB
coeus-15-2-1-011-S1000V.vhdx.tgz Hypervisor image coeus-15-2-1-011-S1000V.vhdx.tgz Advisories	14-Oct-2024	4688.42 MB
<b>Cisco Web Security Virtual Appliance S1000V</b> coeus-15-2-1-011-S1000V.zip Advisories	14-Oct-2024	4826.82 MB
coeus-15-2-1-011-S100V.qcow2.tgz KVM build qcow image coeus-15-2-1-011-S100V.qcow2.tgz Advisories	14-Oct-2024	4683.05 MB
coeus-15-2-1-011-S100V.vhdx.tgz Hypervisor Image coeus-15-2-1-011-S100V.vhdx.tgz Advisories	14-Oct-2024	4686.41 MB

Version Model

Image - Download Hyper-V Disk Image

## Installing SWA Setup

Use these steps to install the SWA on Hyper-V:

- Step 1.** Open your Hyper-V Manager console.
- Step 2.** Click **New** from the right menu.
- Step 3.** Choose **Virtual Machine**.

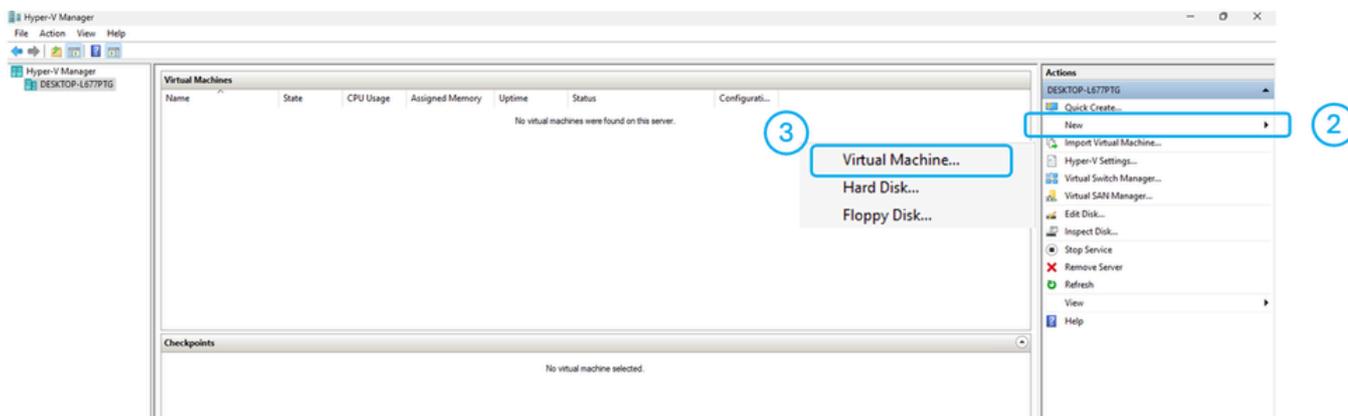


Image - Create a New Virtual Machine

- Step 4.** Click **Next** in the Before You Begin Page.

**Step 5.** Choose a **Name** for your Virtual Machine.

**Step 6.** (Optional) If you would like to change the path to store the Virtual Machine files, Select the Check box next to "Store the virtual machine in a different location" and **Browse** to the new path.

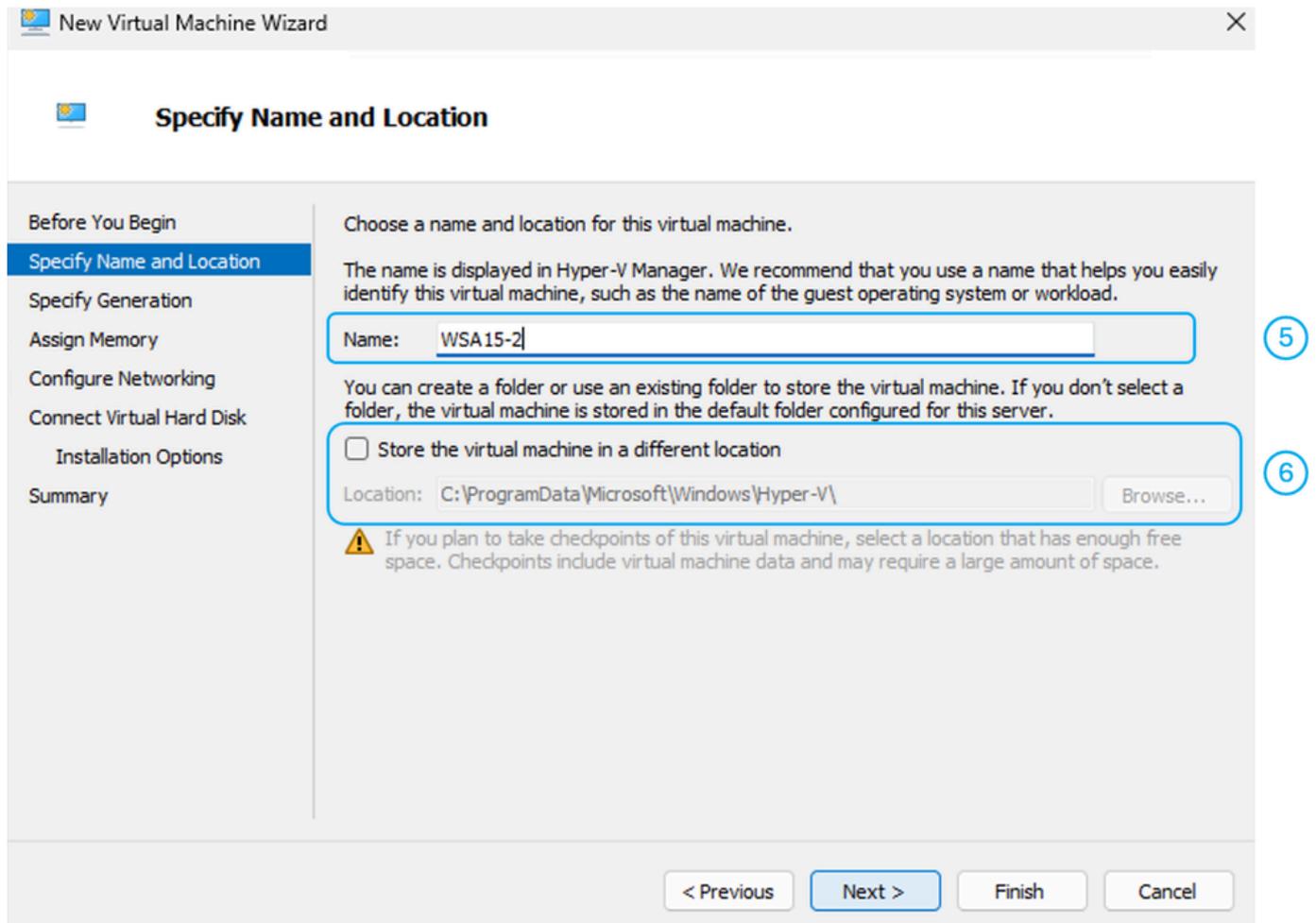


Image - Specify Name and Location

**Step 7.** On the Specify Generation page, Choose **Generation 2**, then click **Next**.

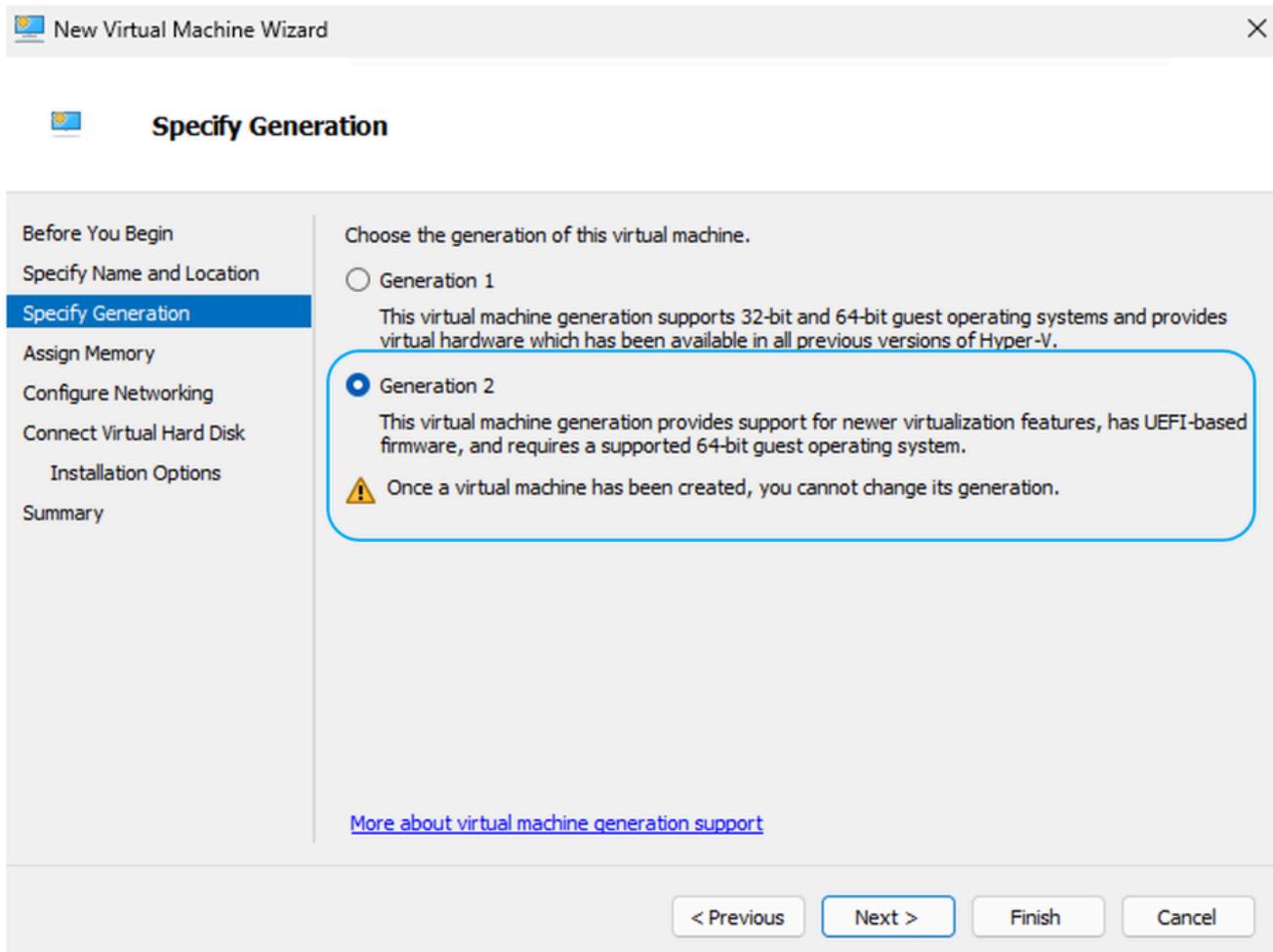


Image - Choose Generation 2

**Step 8.** Assign memory as recommended in [Supported Virtual Appliance Models and AsyncOS Releases for Hyper-V Deployments](#) .

**Step 9.** To have a better performance, uncheck **Use Dynamic Memory for this virtual machine**, then click **Next**.

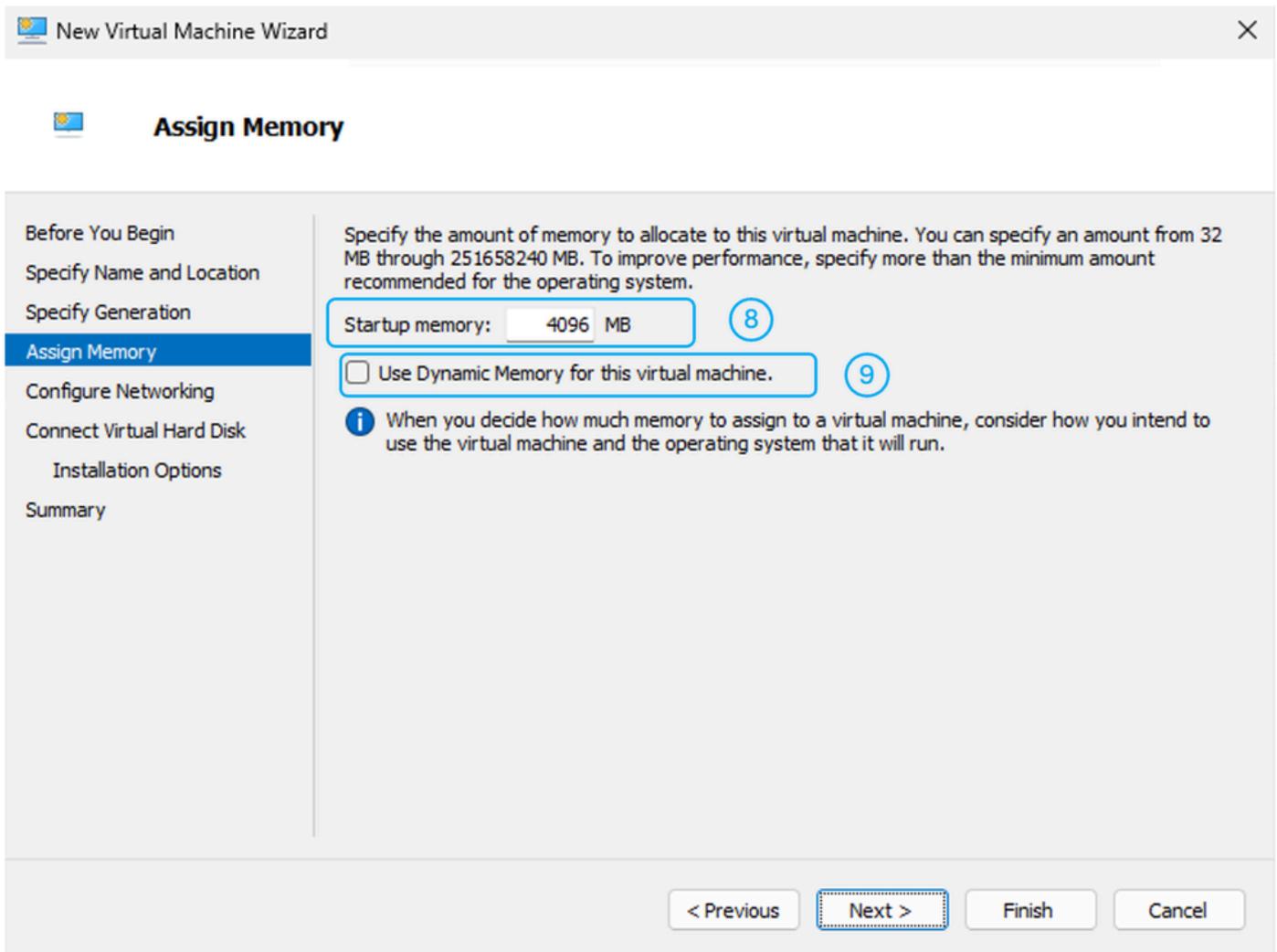


Image - Assign Memory

**Step 10.** Choose your desired Virtual Switch, then click **Next**.

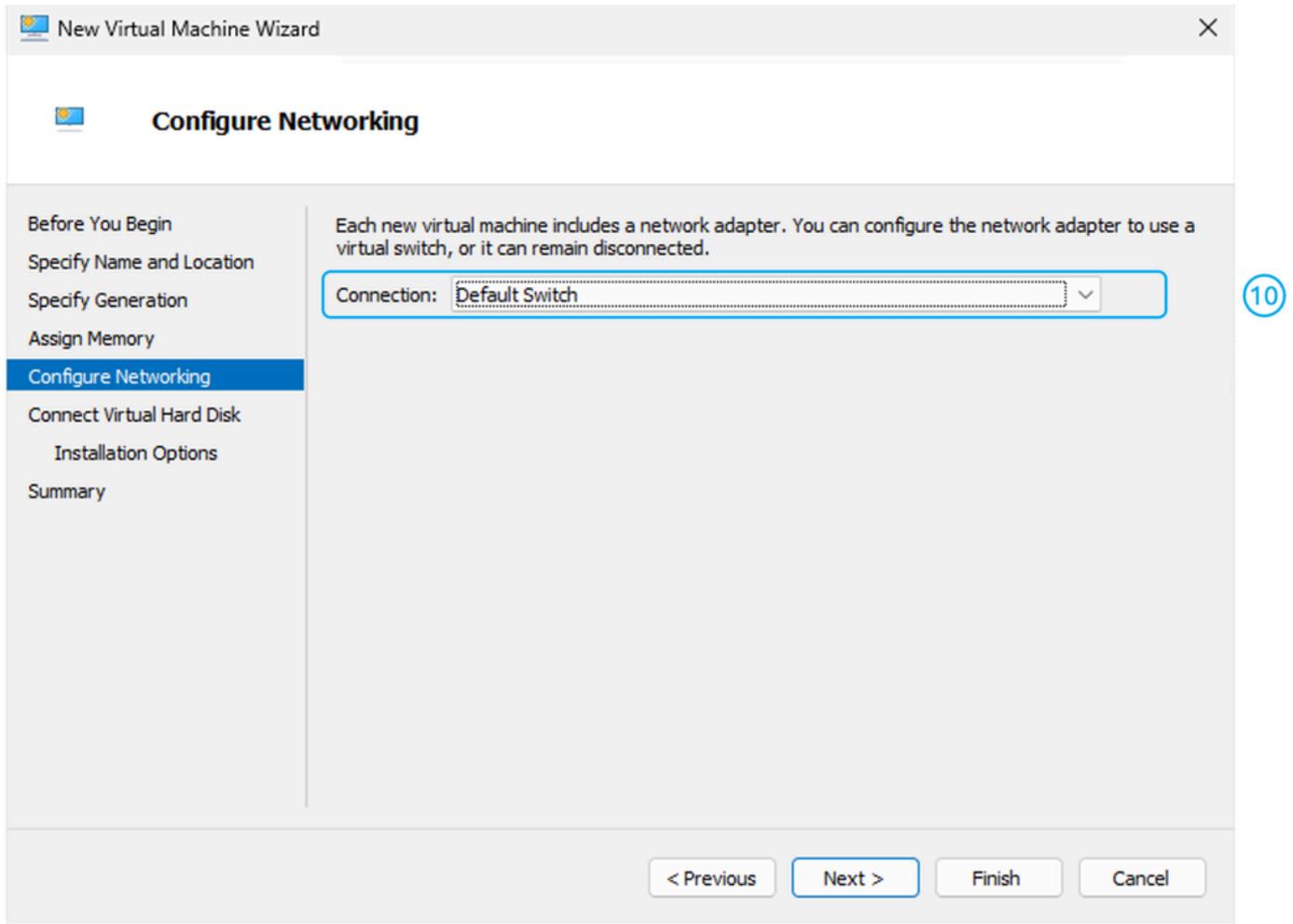


Image - Choose the Virtual Switch

**Step 11.** Extract the Virtual Disk Image file that you have downloaded previously.

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 **Tip:** To extract a **.tgz** file you can use **7zip** application.

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**Step 12.** Copy the extracted files to the path you would like to host the virtual machine disk.

**Step 13.** Choose **Use an Existing Virtual Hard Disk**, then select the path to the virtual disk file (**.vhd**).

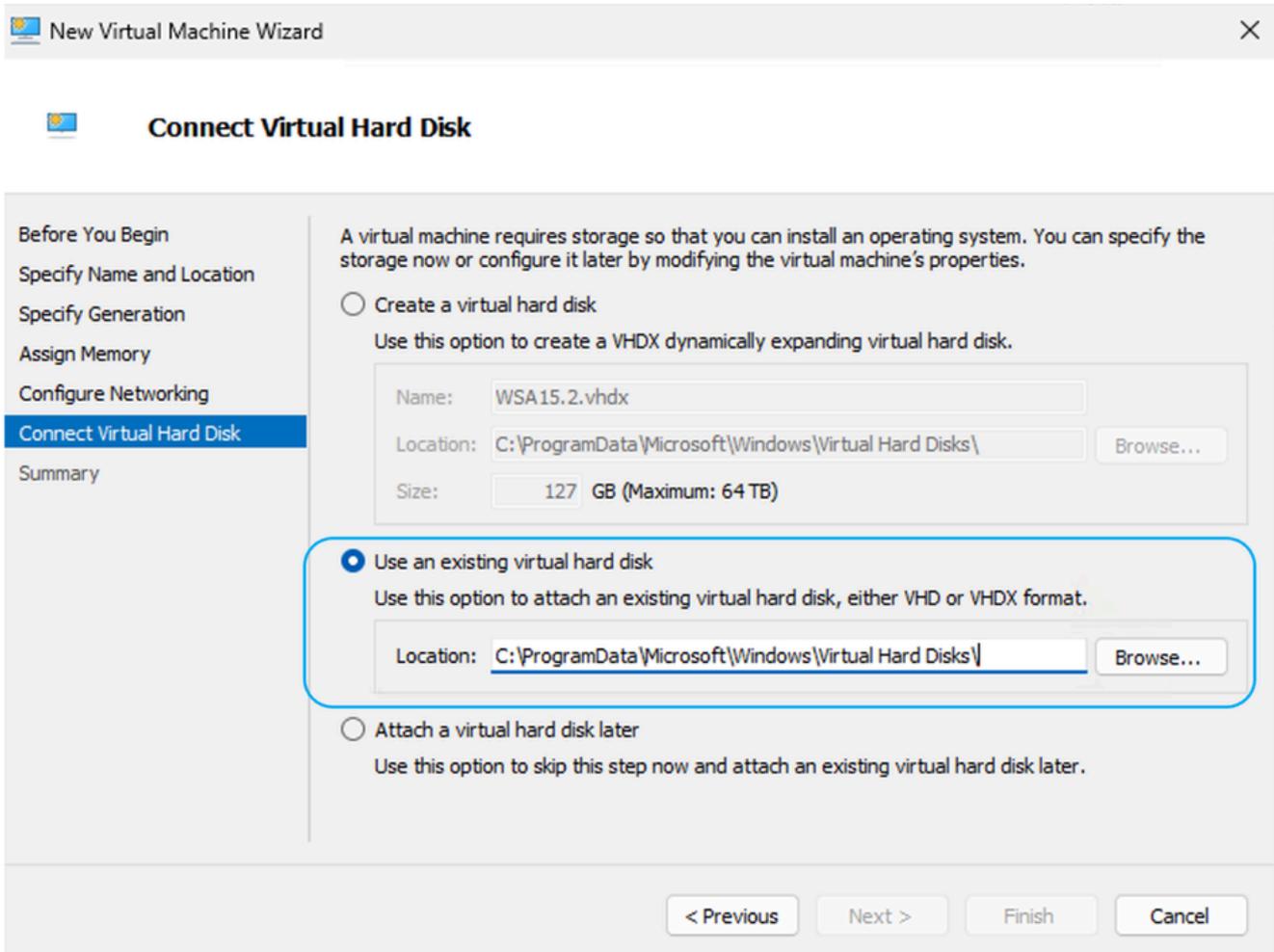


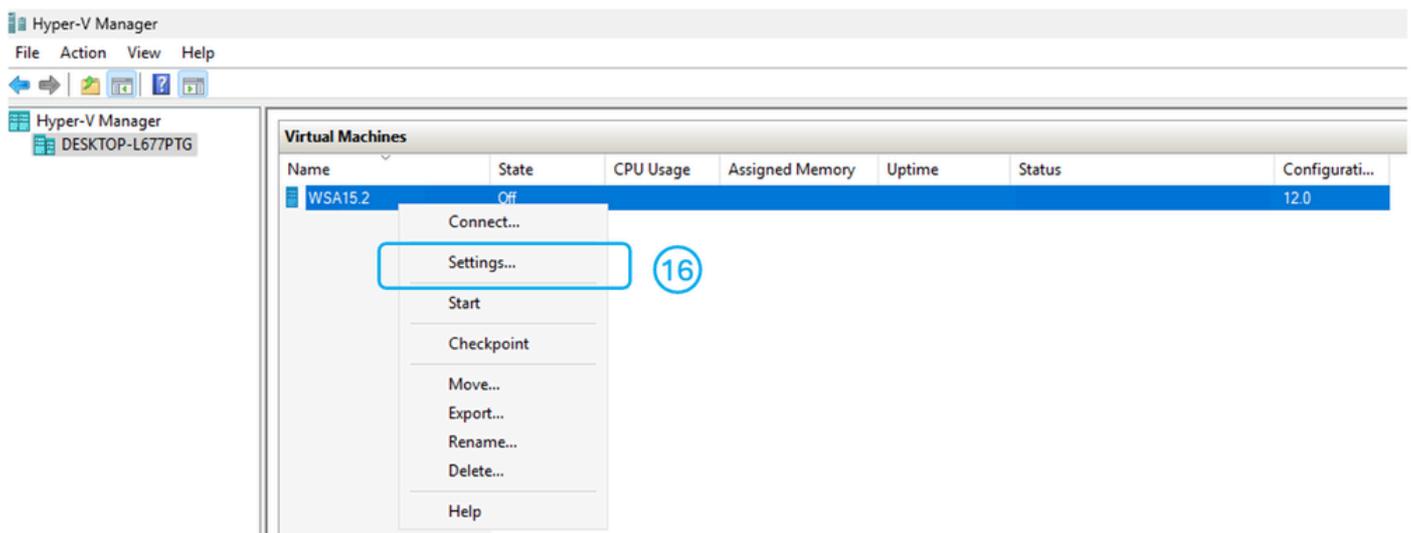
Image - Use an Existing Virtual Hard Disk

**Step 14.** Click **Next**.

**Step 15.** Review the Configuration summary, then click **Finish**.

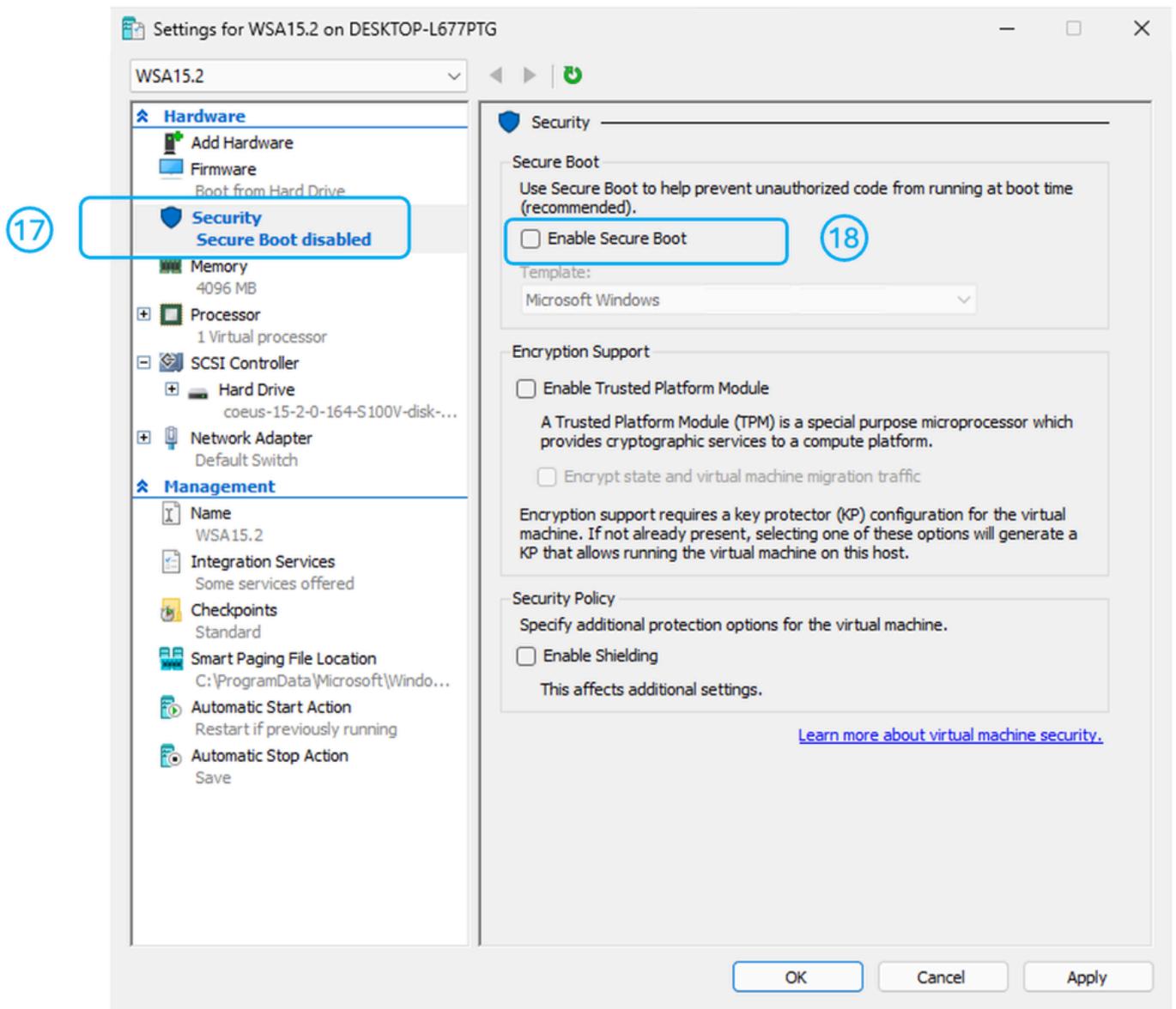
 **Note:** Wait for the Virtual Machine to get ready before Starting the VM. You must modify the settings.

**Step 16.** Right-click on the virtual Machine name, then select **Settings**.



**Step 17.** From the left menu ,choose **Security**.

**Step 18.** Uncheck **Enable Secure Boot**.



**Step 19.** From the settings window, choose **Processor**.

**Step 20.** Increase the number of processors as recommended in [Supported Virtual Appliance Models and AsyncOS Releases for Hyper-V Deployments](#)

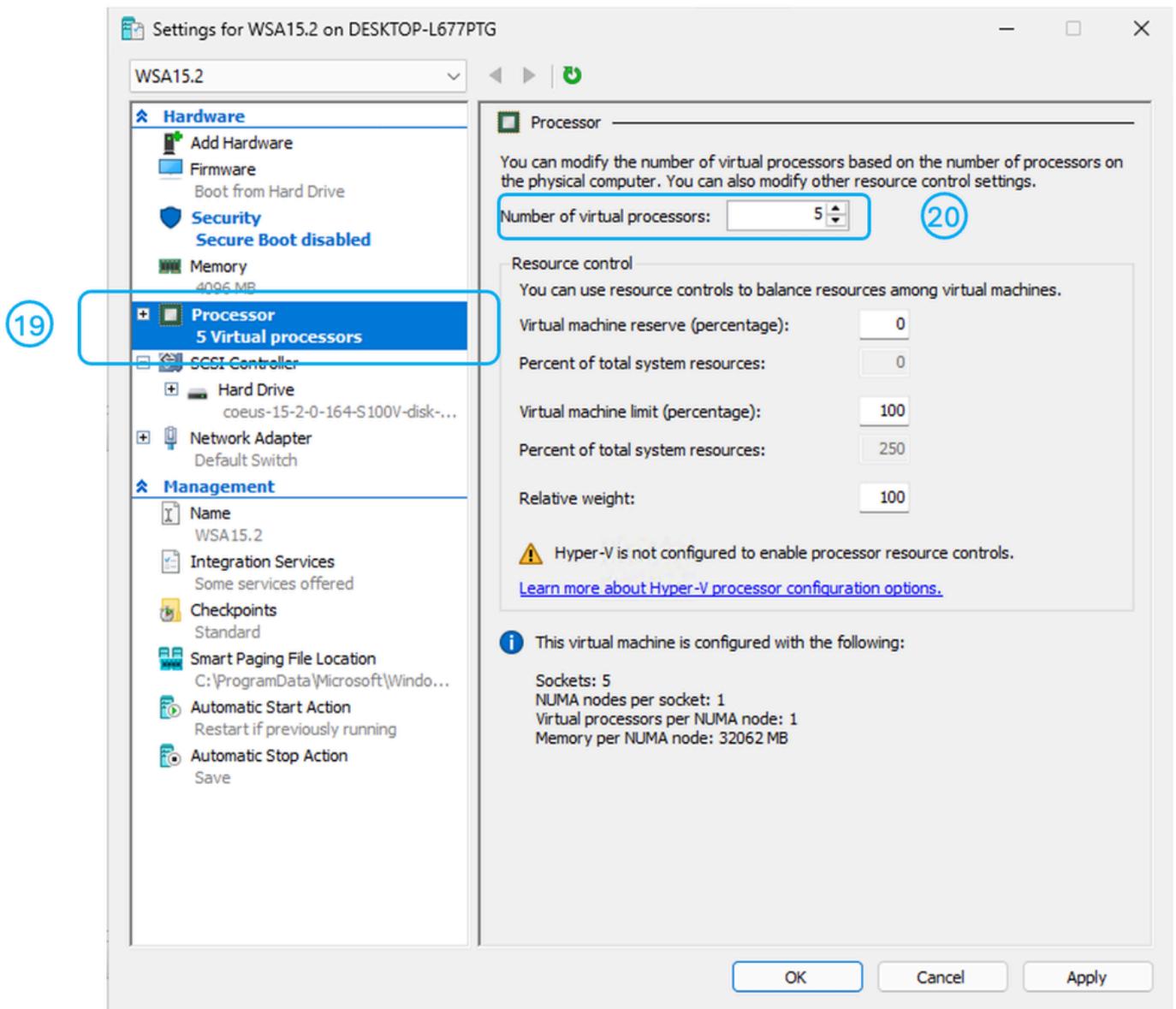


Image - Increase the Number of Processors

**Step 21.** From the settings window, choose **Add Hardware**.

**Step 22.** Select "Network Adapter" and click **Add**.

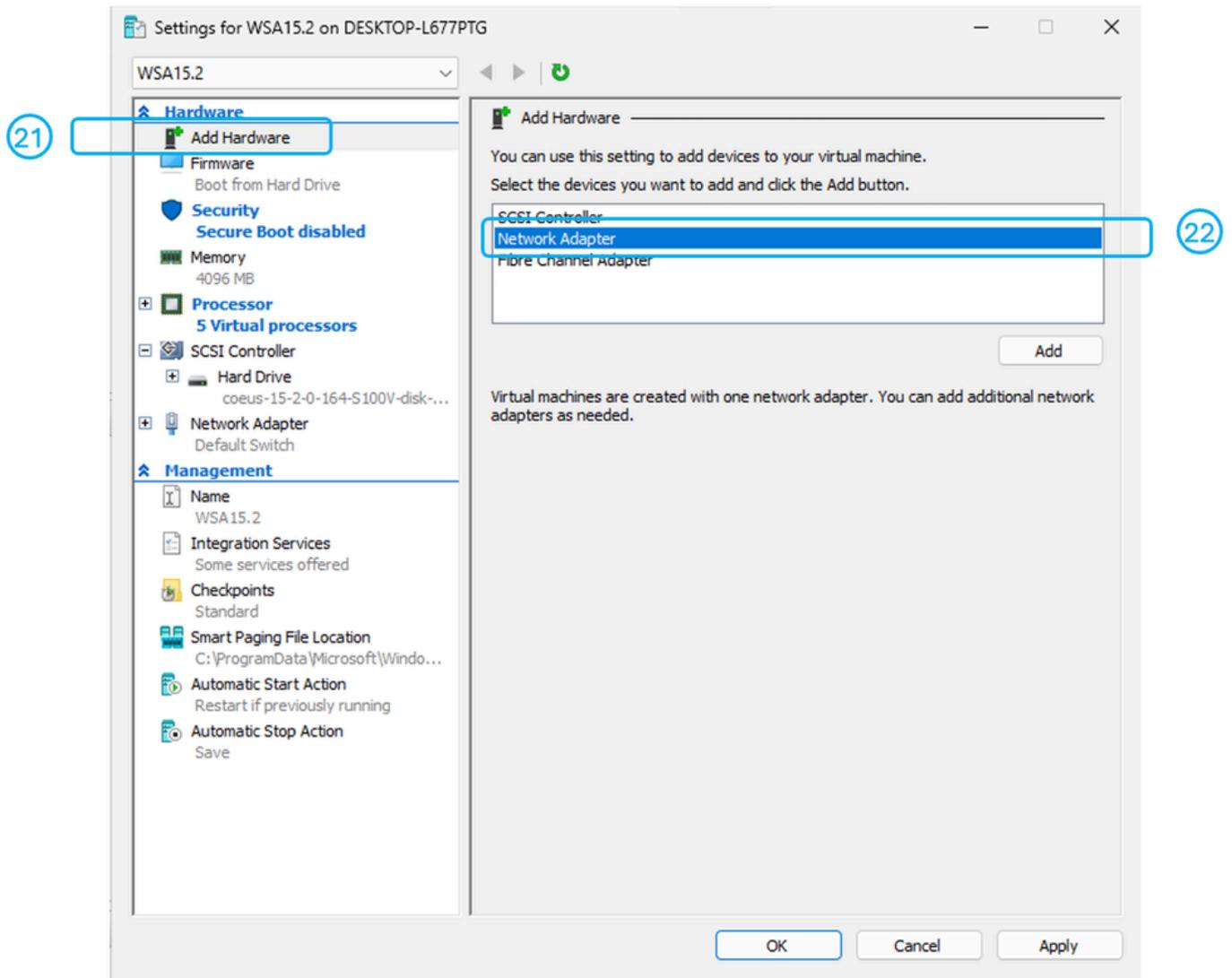


Image - Add Network Adapters

**Step 23.** Select the virtual switch.

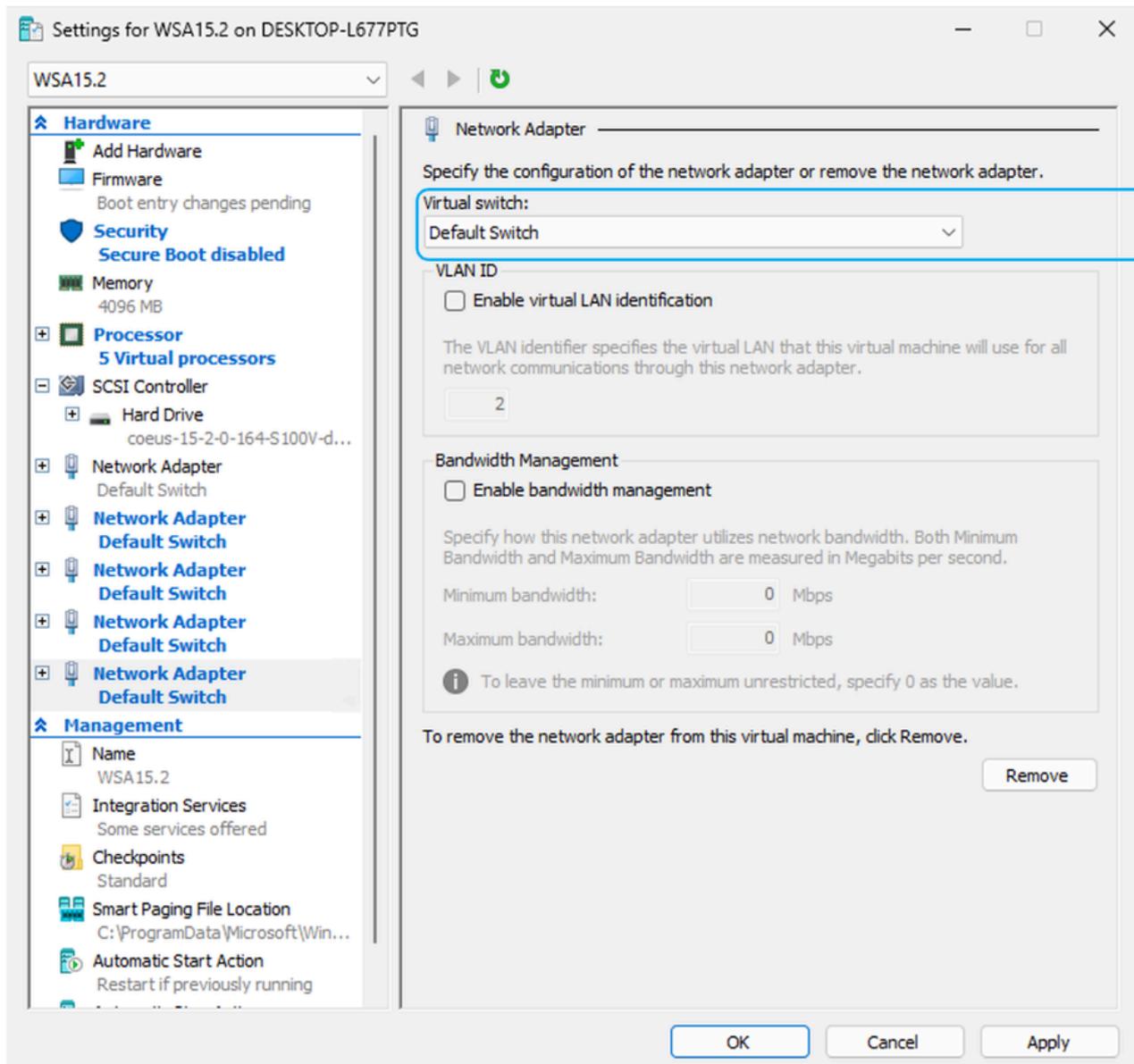


Image - Select the Virtual Switch

**Step 24.** Repeat Steps 21 to 23 until you have a total of five network interfaces.

**⚠ Caution:** Even if you do not plan to use all five interfaces on the SWA, it is still necessary to add them to the virtual machine. Failing to do so can result in unexpected behavior.

**Step 25.** Apply.

**Step 26.** Start the virtual Machine.

**🔍 Tip:** To setup the SWA kindly visit: [Configure Secure Web Appliance Initial Setup](#)

## Related Information

- [User Guide for AsyncOS 15.2 for Cisco Secure Web Appliance](#)
- [Cisco Secure Email and Web Virtual Appliance Installation Guide](#)

- [Configure Secure Web Appliance Initial Setup](#)
- [Configure Custom URL Categories in Secure Web Appliance - Cisco](#)
- [Use Secure Web Appliance Best Practices](#)
- [Configure Firewall for Secure Web Appliance](#)
- [Configure Decryption Certificate in Secure Web Appliance](#)
- [Configure and Troubleshoot SNMP in SWA](#)
- [Configure SCP Push Logs in Secure Web Appliance with Microsoft Server](#)
- [Enable Specific YouTube Channel/Video and Block Rest of YouTube in SWA](#)
- [Understand HTTPS Accesslog Format in Secure Web Appliance](#)
- [Access Secure Web Appliance Logs](#)
- [Bypass Authentication in Secure Web Appliance](#)
- [Block Traffic in Secure Web Appliance](#)
- [Bypass Microsoft Updates Traffic in Secure Web Appliance](#)