One Identity Safeguard for Privileged Sessions 6.9.4

Deployment from Azure Marketplace

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Legend

WARNING: A WARNING icon highlights a potential risk of bodily injury or property damage, for which industry-standard safety precautions are advised. This icon is often associated with electrical hazards related to hardware.

CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

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Preface

This document describes how to deploy One Identity Safeguard for Privileged Sessions (SPS) as a Virtual Machine from the Azure Marketplace.

NOTE: When setting up a virtual environment, carefully consider the configuration aspects such as CPU, memory availability, I/O subsystem, and network infrastructure to ensure the virtual layer has the necessary resources available. Please consult One Identity's Product Support Policies for more information on environment virtualization.

Deploying One Identity Safeguard for Privileged Sessions from the Azure Marketplace

This guide provides detailed descriptions for deploying One Identity Safeguard for Privileged Sessions (SPS) from the Microsoft Azure Marketplace.

Before you start:

Before you start evaluating SPS, make sure you understand what SPS is and how it works. This information can greatly help you get SPS operational.

Prerequisites

The following prerequisites must be met to deploy SPS in Microsoft Azure:

- You have a valid One Identity Safeguard for Privileged Sessions license. When deployed from the Microsoft Azure Marketplace, the One Identity Safeguard for Privileged Sessions uses the "Bring your own license" model. Note that to deploy two active SPS nodes as an availability set, you must purchase two standalone SPS licenses. To purchase a license, contact our Sales Team.
- Microsoft recommends to use the Azure Resource Manager (ARM) deployment model. When you install SPS from the Azure Marketplace, SPS supports only this deployment method. If you need to deploy SPS into and infrastructure that uses the Classic deployment model, contact your One Identity sales representative.
- You have a Microsoft Azure account.

Limitations

The following limitations apply to SPS when you deploy it from the Microsoft Azure Marketplace.

CAUTION:

Do not export or import configuration between a physical SPS deployment and a virtual one. Because of the differences and limitations between physical and virtual appliances, configure the virtual appliance from scratch to ensure proper functionality. When you migrate a virtual SPS to another one, you can export and import the configuration.

- Root login is not available on the console.
- SSH access is only available after you have completed the Welcome Wizard.
- Currently, the data that is entered during the provisioning phase (for example, the username and the IP address) of creating the virtual machine in Azure is not transferred to SPS. Therefore, only the data entered in the Welcome Wizard will be used.
- By default, you can only use Physical interface 1 (eth0) of SPS, with a single IP address. Aside from changing the IP address of SPS, do not modify other interface-related settings (additional logical interfaces, IP forwarding, and so on) on the **Basic Settings > Network** page of SPS.

  The number of interfaces you can use depends on the size of your Azure VM. If your VM allows you to use multiple interfaces, you can configure multiple interfaces in SPS. For details, see VM with multiple NICs.
- The **Seal the box** functionality is not available.
- The High Availability support of SPS was designed to work between two physical SPS appliances. This feature is not available in Azure environments. For further details, see the High Availability and redundancy in Microsoft Azure.
- Due to Azure requirements, an additional 5-minute delay has been added to the boot process. This ensures that the root device appears in the system.
- The size of the hard disk in Azure is 100 Gb. You cannot extend this virtual disk size later, nor can you write to Samba or other disks. In case you run out of disk space, either configure a **Backup policy** and an **Archive policy** if you have a server for this purpose, or configure a **Cleanup policy** that deletes the audit trails at certain time intervals. For details, see "Data and configuration backups" in the Administration Guide and "Archiving and cleanup" in the Administration Guide.
- SPS currently cannot receive its IP address using DHCP. Make sure that:
  - The IP address you have configured in Azure and the IP address that you configure for SPS for the **Physical interface 1** on the Networking settings part of the Welcome Wizard are the same. Otherwise, you will not be able to access SPS.

- You set the internal IP static on the Network Interfaces tab of the Virtual Machine.
- Do not assign a public IP address to SPS, use SPS as a component of your internal infrastructure. If you absolutely must configure Welcome Wizard from a publicly accessible IP address, note that SPS will be publicly accessible. If you assign a public IP to the web management interface, consider the following:
    - Select a complex passphrase.
    - Limit access to the management interface based on the source IP address, and make sure that brute-force protection for the administrator web login is enabled (they are enabled by default). For details, see "Configuring user and administrator login addresses" in the Administration Guide.
    - Configure an email alert or SNMP trap for administrator logon events. For details, see "Configuring e-mail alerts" in the Administration Guide and "Configuring SNMP alerts" in the Administration Guide.
    - Forward the logs of SPS to a log server (for example, to a syslog-ng server, or an syslog-ng Store Box appliance) so that if the local logs are compromised, you still have an authentic copy of the original logs.
    - For security reasons, disable SSH access to SPS when it is not needed. Accessing the SPS host directly using SSH is not recommended or supported, except for troubleshooting purposes. If you enable SSH access, restrict the clients that can access SPS based on their source IP address, and make sure that brute-force protection is enabled (they are enabled by default). For details, see "Enabling SSH access to the One Identity Safeguard for Privileged Sessions (SPS) host" in the Administration Guide.
    - To prevent unauthorized access to the audit trail files recorded on SPS, configure proper access control rules for the user groups and encrypt every audit trail. If you use encryption, store your keys in the personal or in the temporary key store. For details, see "Encrypting audit trails" in the Administration Guide,
- Upgrading SPS in Azure is the same as upgrading a physical appliance: you have to upload the firmware on the SPS web interface. For detailed instructions, see Upgrade Guide.

Deploy One Identity Safeguard for Privileged Sessions from the Microsoft Azure Marketplace

Purpose:

The following describes how to have a One Identity Safeguard for Privileged Sessions running in Microsoft Azure.

To have a One Identity Safeguard for Privileged Sessions running in Microsoft Azure

1. **Deploy One Identity Safeguard for Privileged Sessions from the Microsoft Azure Marketplace**

   Create and configure a One Identity Safeguard for Privileged Sessions virtual machine (VM) in the Azure portal. For details, see the Microsoft Azure documentation, here we just describe the SPS-specific settings.

   a. Login to the Azure portal, select **One Identity Safeguard for Privileged Sessions** from the Azure Marketplace, then click **Create**.

   b. Fill the required fields of the **Basics** blade. Note that you must fill the **User name** and **Authentication Password/SSH public key** fields, but SPS will not actually use these settings (SPS will use the parameters you configure in the SPS Welcome Wizard).

   c. Choose a size for the VM. If you want to use this machine in production and need help about sizing or architecture design, contact your One Identity sales representative.

      The number of interfaces you can use depends on the size of your Azure VM. If your VM allows you to use multiple interfaces, you can configure multiple interfaces in SPS. For details, see VM with multiple NICs.

   d. On the **Settings** blade, disable monitoring.

   e. When the deployment is finished, navigate to the network settings of the new VM in the Azure portal. Change the IP address of the SPS network interface to Static, and note down the IP address and the hostname (you will need it in the SPS Welcome Wizard).

   f. If you want to backup or archive data from SPS into Azure, create an Azure File Share. Note down the following information of the file share, because you will need it to configure SPS backups and archiving: `URL`, `Username`, `Password`.

      CAUTION:

      If you have multiple SPS VMs, make sure to use a separate file share for each SPS.

2. **Complete the SPS Welcome Wizard**

   Complete the SPS Welcome Wizard (for details, see "Configuring One Identity Safeguard for Privileged Sessions (SPS) with the Welcome Wizard" in the Administration Guide). Note the following points specific for Azure deployments. When configuring the network settings of SPS note the following points.

   CAUTION:

   Do not export or import configuration between a physical SPS deployment and a virtual one. Because of the differences and limitations between physical and virtual appliances, configure the virtual appliance from scratch to ensure proper functionality. When you migrate a virtual SPS to another one, you can export and import the configuration.

   a. Into the **Physical interface EXT or 1 — IP address** field, enter the static IP address of the SPS VM that you set on the Azure portal.

   b. **Default GW**: The default gateway is usually the first address in a subnet (for example, if your subnet is `10.7.0.0/24`, then the gateway will be `10.7.0.1`).

   c. **Hostname**: Use the hostname you have configured for the SPS VM on the Azure portal.

   d. **DNS server**: You can use any DNS server that the SPS VM can access, even public ones.

3. **Configure SPS**

   Login to SPS and configure it.

   a. Configure backups for SPS. For backup and archiving purposes One Identity recommends the built-in file shares of Azure. For details on configuring backups, see "Data and configuration backups" in the Administration Guide.

   b. Configure archiving for SPS. For backup and archiving purposes One Identity recommends the built-in file shares of Azure. For details on configuring backups, see "Archiving and cleanup" in the Administration Guide. Configuring Archiving policy is highly recommended: because if the disk of the VM fills up, SPS stops working.

   c. Configure a server: set up a host that is on the same subnet as SPS, and enable Remote Desktop (RDP) or Secure Shell (SSH) access to it.

   d. Configure a connection on SPS to forward the incoming RDP or Secure Shell (SSH) connection to the host and establish a connection to the host. See "Logging in to One Identity Safeguard for Privileged Sessions (SPS) and configuring the first connection" in the Administration Guide for details.

   e. Replay your session in the browser. See "Replaying audit trails in your browser" in the Administration Guide for details.

In case you have questions about SPS, or need assistance, contact your One Identity representative.

High Availability and redundancy in Microsoft Azure

In a Microsoft Azure deployment, the high-availability and redundancy of the SPS appliance is provided by the Microsoft Azure infrastructure, according to the Azure Storage SLA.

Redundancy

The data in your Microsoft Azure storage account is always replicated to ensure durability and high availability, meeting the Azure Storage SLA. The exact type of replication depends on your storage account settings, but every disk is stored in 3 copies.

For details, see Locally redundant storage in the *Azure Storage replication* document, and Service Healing - Auto-recovery of Virtual Machines.

High Availability

If a hardware failure occurs, Azure moves the Virtual Machine to another location and restarts it in 5-15 minutes. In case you require higher SLA, you are recommended to deploy two standalone SPS nodes into an availability set. Note that to deploy two active SPS nodes as an availability set, you must purchase two standalone SPS licenses.

For details, see Locally redundant storage in the *Azure Storage replication* document, and Service Healing - Auto-recovery of Virtual Machines.

About us

One Identity solutions eliminate the complexities and time-consuming processes often required to govern identities, manage privileged accounts and control access. Our solutions enhance business agility while addressing your IAM challenges with on-premises, cloud and hybrid environments.

Contacting us

For sales and other inquiries, such as licensing, support, and renewals, visit https://www.oneidentity.com/company/contact-us.aspx.

Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at https://support.oneidentity.com/.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to videos at www.YouTube.com/OneIdentity
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product