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Pulse Secure Services Director Virtual Appliance: Release Notes 21.1r2

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About this Release

Pulse Secure Services Director Virtual Appliance 21.1r2 is a maintenance release of the management tool for Pulse Secure Virtual Traffic Manager, which includes fixes for security vulnerabilities.

This is a Virtual Appliance (VA) only release, with no changes to Services Director Ubuntu/CentOS software editions.

Platform Availability

Services Director VA is supported on the following platforms:

- VMware ESX / KVM: as a virtual appliance.
- Amazon EC2: as a virtual appliance or native software install.

Resource Requirements

This section describes the resource requirements for Services Director VA and the vTMs in its estate.

Virtual Environment - Pulse Secure Services Director Virtual Appliance

The required virtual environment for the Services Director VA is described below:

- Hypervisor: VMware vSphere ESXi 6.0/6.5/6.7/7.0, QEMU/KVM (RHEL/CentOS 6.x, 7.x; Ubuntu 18.04), Amazon EC2
- Analytics engine (optional): Splunk 6.5/7.0

Virtual Appliance resource requirements are listed in the table below:

VA Type	CPU	Memory	Disk
Services Director VA	4 vCPU	8 GB	46 GB
Amazon EC2 (t2.large)	2 vCPU	8 GB	46 GB

Software/Virtual Environments for Deployed vTMs

The required software/virtual environment for deployed vTMs is described below:

- Externally deployed, software: Same as Pulse Secure Virtual Traffic Manager (17.2r2 or above).
- Externally deployed, VA: Same as Pulse Secure Virtual Traffic Manager (17.2r2 or above)

Upgrades

Customers upgrading Pulse Secure Services Director Virtual Appliance on Amazon EC2 should follow the same steps as the other supported hypervisors but should use the upgrade image for VMware.

The *universal_v4* FLA license previously issued by Services Director is deprecated, but will continue to work after upgrade. Customers are advised to relicense their vTMs with the newer *universal_v5* FLA license at a convenient time after upgrade.

REST API versions in this release remain the same as for release 21.1:

- tmcm API: v2.9
- sd API: v1.1

Major New Features

No major features are introduced in this release.

Security Vulnerabilities

Notable fixed vulnerabilities include:

Report Number	Description
SD-14267	The OpenSSL library included in Services Director has been updated to remediate the CVE-2022-0778 vulnerability.

Known Issues

Known issues at this release are:

Report Number	Description	
SD-13881	The following validation error can erroneously be seen when upgrading a Secondary Services Director from version 2.4r1: "% Cannot validate service configuration or database. Please check log for details. Use command 'ssc database validation-err ignore' to override validation result and redo image install/upgrade." It is safe to follow the indicated instructions to override the validation.	
SD-13913	Executing the ssc high-avail force-failover CLI command on AWS can result in the following error: "% Failed to fetch operation status: Service endpoint IP address <ip> not raised on interface primary". Force failover can be successfully executed via the Services > Manage HA page of the GUI when logged in to your secondary Services Director."</ip>	
SD-14071	Services Director comms channel links to individual vTM instances can in rare circumstances become blocked. This is recognisable by repeated occurrences of "Error: Second connection attempt from <uid>" in the Services Director Log and a corresponding monitoring failure. The workaround for this problem is to restart the Services Director API (System > Service Status > Restart on the VA, see the Services Director Advanced User Guide for Ubuntu and CentOS).</uid>	

Deprecation Notices

Please note that the Services Director Instance Host Virtual Appliance has been deprecated. Affected customers should switch to using externally deployed vTM instances or custom instance hosts before upgrading to this version of Services Director VA.

Updated Functionality

No updates to functionality are introduced in this release.

Fixed Functionality

No fixes are included in this release.

Documentation

Ivanti documentation is available at https://www.ivanti.com/support/product-documentation.

For policy reasons, security issues are not normally mentioned in release notes. To find more information about our security advisories, see the <u>security advisory</u> page on the website.

Technical Support

For additional information or assistance, contact Global Support Center (PSGSC):

- https://support.pulsesecure.net
- <u>support@pulsesecure.net</u>
- Call 1-844-751-7629 (toll-free USA)

For technical support resources, browse the Pulse Secure Technical Support website https://support.pulsesecure.net.

Revision History

The following table lists the revision history for this document.

Revision	Revision Date	Description
1.0	1 April, 2022	First release.