Migrating from Appliance Virtualization Platform to Avaya Solutions Platform 130

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Contents

Chapter 1: Introduction

Purpose

This document contains checklists and procedures for migrating Appliance Virtualization Platform to Avaya Solutions Platform 130 (Dell PowerEdge R640, Avaya-Supplied ESXi 7.0) Release 5.1.

The primary audience for this document is anyone who migrates data from Appliance Virtualization Platform Release 8.1.x to Avaya Solutions Platform 130 Release 5.1.

This documentation does not provide the information about installing, maintaining or troubleshooting Avaya Solutions Platform 130. For information related to installing, maintaining or troubleshooting, see the Avaya Solutions Platform 130 documentation on the Avaya Support website.

✱ Note:

This document is applicable to all ASP 130 R5.1.x releases.

Change history

Issue	Date	Summary of changes
5	August 2024	Note added to Chapter 5 to reflect ASP 120 (AVP) migrations to ASP 130 have entered A1SC password restricted state. Contact your Avaya sales representative for additional information. Additional updates to reflect unique license key label on server lid for all new ASP 5.1.x 130 orders. License key will no longer be posted in PLDS for all new orders.
4	December 2023	Changed Avaya Inc. to Avaya LLC. Updated the initial steps of the procedure in "Verifying Avaya Solutions Platform 130 software release and the ESXi version".
3	January 2023	Updated the "Overview" section to include information about migrating to ASP 130 Release 5.1.0.1 or later.
2	July 2022	Updated the migration guidelines in the "Overview" section.
1	May 2022	Initial release

Prerequisites

Before installing or migrating Avaya Solutions Platform 130, ensure that you have the following knowledge, skills, and tools.

Knowledge

- VMware ESXi installation and configuration.
- Avaya Virtualization Platform (AVP) administration (not required but helpful).

Skills

- Simple Network Management Protocol (SNMP).
- General network and server configuration.

Tools

- Monitor, keyboard, mouse, and DVD burner for ESXi installation.
- Laptop for services port access.

Chapter 2: Overview

With Avaya Aura® Release 10.1, Appliance Virtualization Platform is no longer supported for deploying or upgrading the Avaya Aura® applications. If your applications are on Appliance Virtualization Platform, migrate Appliance Virtualization Platform to Avaya Solutions Platform 130 (Dell PowerEdge R640, Avaya-Supplied ESXi 7.0) Release 5.1.

> ✳ **Note:**
>
> The migration from ASP 120 (AVP) to the latest ASP 130 R5.1.x is a multi-step process. It is necessary to first migrate from AVP 8.1.x to ASP 130 R5.1 and then upgrade to the latest ASP 130 R5.1.x.

Migration guidelines

- Appliance Virtualization Platform Release 8.1.x must be installed on Avaya Solutions Platform 120 Appliance (Dell PowerEdge R640).

- AVP 8.1.x migrations to ASP 130 require that the same application with the same profile is used for the migration. If the end customer needs to increase profile size or add a new application, this will need to take place post migration and will need to be based on available resources as determined by the A1S Configurator. AVP 8.1.3.x (ASP 120) migrations to ASP 130 5.1.0.1 or later will always be a 2 step migration. First migrate to ASP 130 R5.1, then upgrade from ASP 130 R5.1 to ASP 130 5.1.x.

- If Appliance Virtualization Platform (ASP 120 Dell R640) is not on Release 8.1.x, upgrade Appliance Virtualization Platform to Release 8.1.x and migrate to Avaya Solutions Platform 130 Release 5.1.

- Another migration option, which is more catastrophic (fresh install) is covered in the "Performing server recovery or software remastering" section of the *Installing the Avaya Solutions Platform 130 Series* document. This results in the ASP 130 being out of service for the duration of the upgrade.

- If Appliance Virtualization Platform is on any server other than ASP 120 (Dell R640), this will require a forklift or hardware upgrade to Avaya Solutions Platform 130 (Dell R640).

- Appliance Virtualization Platform license must not be in license error mode.

> ✳ **Note:**
>
> *Migrate* and *Upgrade* are used interchangeably in the document and refers to migrating from Appliance Virtualization Platform to Avaya Solutions Platform 130.

> ✳ **Note:**
>
> When an AVP 8.1.x on a Dell R640 (ASP 120) is migrated to ASP 130 R5.x, the persistent storage directory name will always remain as "server-local-disk". For ASP 130s shipping

from Avaya's integrator, the persistent storage directory name will always be "datastore1". Reinstalling/remastering ASP 130 R5.x on ASP 130 (even if it migrated from AVP) will always result in a persistent storage name of "datastore1". Upgrades within the ASP 130 R5.x release will maintain the existing persistent storage directory name.

Examples:

**	Persistent Storage Directory Name
ASP 130 R5.x AFTER migration from AVP	/vmfs/volumes/server-local-disk/
ASP 130 R5.x – Fresh install/remaster, preloaded server	/vmfs/volumes/datastore1/

What's New in Avaya Solutions Platform Release 5.1

- EASG is supported starting with Avaya Solutions Platform Release 5.1

- A new 5.1 directory ("`/opt/avaya/etc/`") is created with both the Avaya Solutions Platform 130 zip upgrade file and the Avaya Solutions Platform 130 ISO install file. The Avaya Tools VIB will create this directory.

- The Avaya Solutions Platform 130 Release 5.1 has the Avaya Tools VIB, which replaces the functionality of `Avaya-Config-v1` script file in the Avaya Solutions Platform 130 Release 4.0 and Release 5.0

  - In Avaya Solutions Platform 130 Release 4.0 and Release 5.0, the `Avaya-Config-v1` script file configured the services port and had to be copied to the shell and manually applied.

  - In Avaya Solutions Platform Release 5.1, this is no longer necessary. The Avaya Tools VIB is a part of the Avaya Solutions Platform 130 Release 5.1 ISO and zip files.

- The Avaya Solutions Platform 130 Release 5.1 ISO for fresh install, recovery or catastrophic/forklift migrations includes the Avaya Tools VIB.

  - The Avaya EASG VIB must be downloaded separately from PLDS and copied to the shell, and manually applied after the ISO is installed.

- The Avaya Solutions Platform 130 Release 5.1 upgrade zip file contains the Avaya Tools VIB and the Avaya EASG VIB, thus no need to download the Avaya EASG VIB from PLDS.

  - The Avaya Solutions Platform 130 Release 5.1 zip file is used for upgrades only.

- From Avaya Solutions Platform Release 5.1 onwards, **Autostart** is enabled and the **Autostart start delay** and **stop delay** fields are set to **0**.

Chapter 3: Registration

Overview

In order to receive support from Avaya Services, Avaya Customers and Avaya Channel Partners must have their end user product information in the HealthCheck tool.

End user product install base is a prerequisite for services support of Avaya Solutions Platform. Registration establishes accurate inventory, test SAL connectivity, alarm configuration (if necessary), and ensures proper on-boarding of customers into all levels of Avaya support.

General information on registration can be found at https://support.avaya.com/registration.

HealthCheck tool registration process

HealthCheck tool registration feature initiates Technical Onboarding that can be divided into four steps. Only the first step has to be completed by the user manually. The other three steps are automated and completed by Avaya backend.

- An Avaya user initiates the product registration request from the HealthCheck Tool.

- HealthCheck submits the registration request to Avaya backend where SEID and Alarm ID for the device is generated.

- HealthCheck portal verifies if the user has opted for SAL Administration and if the provided details are correct. SAL Administration request is then forward to SAL Gateway.

- HealthCheck portal verifies if Alarm testing is enabled and forwards the request to Avaya backend.

- HealthCheck Tool sends an email to the user once the request is submitted, and the request is completed with a link of the Status page on the HealthCheck Tool UI.

Registering a new device

About this task

Use this task to register and onboard a new Avaya device. For more information, refer to *HealthCheck Tool Registration Feature Description* on https://support.avaya.com/.

 Important:

Avaya does not support re-purposing CSR3 servers (Dell R630 and HPE Proliant DL360G9) with ESXi. Servers that are re-used by customers must be removed from GRT as they are no longer supported.

Before you begin

Ensure that you have the following:

- An SSO account with a valid user ID and password registered with Avaya to login.

- A Location ID (FL Number) of the device that you want to register.

   Note:

  - US Sold To (functional location) location number format: 000XXXXXXX (000 + 7 digits or can be 00 + 8 digits as well).

  - Outside of US (Rest of the World) FL# (Ship To) location number: 00XXXXXXXX (always 00 + 8 digits).

- The install base of the device that needs to be onboarded must be created in Siebel.

   Note:

  Secure Access Link Registration (also called technical onboarding) requires a verified customer install base and FL or Sold to.

- Ensure you have your IP address and host names for iDRAC and the ESXi host.

  The iDRAC IP address is linked with the Avaya Solutions Platform server. The ESXi Host IP address is linked with the Avaya Solutions Platform ESXi host.

- Ensure that you have placed a SAP order with the Avaya Solutions Platform 130 material codes.

The SAP order will automatically populate Assets under the GRT **Install Base Creation**. The ASP 130 5.1 Material codes are 700515842 (Profile 2), 700515843 (Profile 3), 700515844 (Profile 4), 700515845 (Profile 5), and 700515846 (Profile 51).

Procedure

1. Log on to http://support.avaya.com.

2. On the Home page, click **Diagnostic & Tools**.

3. Click **Diagnostic & Tools Lookup**.

4. Click **Diagnostics and Healthcheck**.

5. Click **Healthcheck**.

6. Click **Load Consolidated Dashboard**.

7. Enter the details in the **Location/Installation ID** field.

8. Click **Unregistered Assets**.

9. Find Avaya Solutions Platform 120 tracking code asset and enter the quantity in the **Location ID** field. Click **Register**.

10. Enter the details in the **ACP**, **ACPEH**, and **SAL Gateway** fields for the Avaya Solutions Platform 120.

11. Click **Submit**.

12. Click **Submit** again to confirm.

    You will receive an email with the Registration status.

Viewing the status of your registration request

About this task

HealthCheck portal sends an email notification to the user once when the request is submitted and again when the request is completed. This email also contains the current progress of the registration request, details of the devices, and a link to the Registration Summary page of HealthCheck Tool UI.

For more information, see *HealthCheck Tool Registration Feature Description* on https://support.avaya.com/.

Procedure

To view the registration details, click **View** from the **Detailed Status** field provided in the email.

This link navigates the user to the Registration Summary page on the portal.

Technical Onboarding Process

Technical Onboarding comprises of the following:

- SAL Gateway Administration: After a new device is registered with valid SEID and Alarm ID, it must be added to a SAL Gateway as a Managed element. This is required in case of errors or issues so that Avaya Service engineers receive the alarm and request remote access to your device to troubleshoot them.

- Connectivity and Alarm Testing: In case of failure or issues with your device and device connectivity, an alarm is generated and sent to Avaya backend. Connectivity and Alarm Testing ensures that the alarm generated by the device reaches the Avaya service team for troubleshooting.

These steps are optional while you register a new device, but Avaya recommends you to complete these steps at the earliest.

If you fail to complete these steps while registering the device, you can still come back and complete the TOB process with the HealthCheck tool.

To administer an already registered device or to complete the Connectivity and Alarm Test, see [Using HealthCheck Tool KB article](#).

Registering device after ASP 120 migrates from AVP 8.1.x to ESXi 7.0

About this task

The Avaya Solutions Platform 120 material codes will go end of sale soon. Existing customers migrating from AVP 8.1.x to ESXi 7.0 must retain existing material codes in their Install base record (see step 3). Use the new tracking code for SAL/Alarming connectivity by following the steps below:

Before you begin

- After ESXi software migrates to ASP 130 5.1.x (Dell R640), order material code 413030 ASP 120 UPG TO ASP130 ESXI R7 and Avaya PLDS generates 413031 ASP 130 R5 ESXI R7.X as entitlement in customer record into install base.

Procedure

1. Offboard AVPVM and AVPUTI Solution Element IDs (SEIDs) from ASP 120 from SAL Gateway (SALGW).

2. Technical Onboard ASP 120 in SALGW with new tracking code (415781 ASP 120 UPG TO ESXI TRK) to set ACP SE code (for iDRAC) and ACPEH SE code (for ESXi Host).

   ✱ **Note:**

   Use specific material codes for onboard application and deployment respectively.

3. Retain ASP 120 Hardware Material codes in Install base. See codes below:

    700514094 ACP 120 DELL R640 SRVR P2 BUNDLE or

    700514095 ACP 120 DELL R640 SRVR P3 BUNDLE or

    700514194 ACP 120 DELL R640 SRVR P4 BUNDLE or

    700514096 ACP 120 DELL R640 SRVR P5 BUNDLE

Chapter 4: Planning for migration

Migration checklist

No.	Task	Description	✔
1	Get the migration media.	From the Avaya PLDS website (https://plds.avaya.com/), download the following components that are required to migrate to Avaya Solutions Platform 130 Release 5.1: • Avaya Solutions Platform upgrade bundle, `upgrade-avaya-asp130-5.1.10.zip` • The Solution Deployment Manager client • Patch files for other Avaya Aura® applications, if required	
2	Ensure that Appliance Virtualization Platform Release 8.1.x is installed on the servers that are supported for migration.	This step is to verify if you have Appliance Virtualization Platform Release 8.1.x installed on Avaya Solutions Platform 120, as migration can only occur from AVP 8.1.x. to Avaya Solutions Platform 120.	
3	Create a remote backup of all the applications.	Create a backup of each application. For more information, see application specific documentation.	
4	Migrate using the upgrade bundle.	[Migrating from Appliance Virtualization Platform to Avaya Solutions Platform 130](#) on page 19	

Downloading software from PLDS

When you order for an Avaya Product Licensing and Delivery System (PLDS)-licensed software product, PLDS creates the license entitlements of the order and sends an email notification to you. The email includes a license activation code (LAC) and instructions for accessing and logging into PLDS. Use the LAC to locate and download the purchased license entitlements.

In addition to PLDS, you can download the product software from https://support.avaya.com using the **Downloads and Documents** tab at the top of the page.

> **Note:**
>
> Only the latest service pack for each release is posted on the support site. Previous service packs are available only through PLDS.

Procedure

1. On your web browser, type https://plds.avaya.com to access the Avaya PLDS website.

2. Enter your login ID and password.

3. On the PLDS Home page, select **Assets**.

4. Click **View Downloads**.

5. Click the search icon 🔍 for Company Name.

6. In the Search Companies dialog box, do the following:

   a. In the **%Name** field, type `Avaya` or the Partner company name.

   b. Click **Search Companies**.

   c. Locate the correct entry and click the **Select** link.

7. Search for the available downloads by using one of the following:

   • In **Download Pub ID**, type the download pub ID.

   • In the **Application** field, click the application name.

8. Click **Search Downloads**.

9. In the **Download Manager** box, click the appropriate **Download** link.

   > **Note:**
   >
   > The first link, **Click to download your file now**, uses the Download Manager to download the file. The Download Manager provides features to manage the download (stop, resume, auto checksum). The **click here** link uses your standard browser download and does not provide the download integrity features.

10. If you use the Download Manager, click **Details** to view the download progress.

11. Select a location to save the file, and click **Save**.

12. **(Optional)** When the system displays the security warning, click **Install**.

    When the installation is complete, PLDS displays the downloads again with a check mark next to the downloads that have completed successfully.

Latest software updates and patch information

Before you start the deployment or upgrade of an Avaya product or solution, download the latest software updates or patches for the product or solution. For more information, see the latest

release notes, Product Support Notices (PSNs), and Product Correction Notices (PCNs) for the product or solution on the Avaya Support web site at https://support.avaya.com/.

After deploying or upgrading a product or solution, use the instructions in the release notes, PSNs, or PCNs to install any required software updates or patches.

Chapter 5: Migrating from Appliance Virtualization Platform 8.1.x to Avaya Solutions Platform 130 Release 5.1

Migrating from Appliance Virtualization Platform to Avaya Solutions Platform 130

Before you begin

- Take a remote backup of the applications. For backing up applications related information, see application specific documentation.

  ✳ **Note:**

  Back up applications but do not perform any other action such as to upgrade applications.

- Update the server with the required BIOS or firmware updates, if required. Use only Avaya-provided BIOS or Firmware updates. You can download the BIOS or Firmware updates from the Avaya PLDS website at http://plds.avaya.com.

  ❗ **Important:**

  Perform Migration using the AVP Management IP. If you use services port IP - 192.168.13.6, the migration of Appliance Virtualization Platform to Avaya Solutions Platform 130 will fail.

  ✳ **Note:**

  - After Appliance Virtualization Platform migrates to Avaya Solutions Platform 130, the services port IP - 192.168.13.6 in Appliance Virtualization Platform changes to 192.11.13.6. To use services port IP - 192.11.13.6, connect your LAN cable to the SERVICES port of the Avaya Solutions Platform 130.

  - A password is required to place an ASP 120 (AVP) migration order to ASP 130. Please contact your Avaya sales representative for additional information.

Procedure

1. Log in to the AVP Utilities (AVPU) CLI and enable SSH using the `AVP_SSH enable` command.

2. Using an SSH client, connect to the host through AVP Management IP and copy the upgrade bundle (`upgrade-avaya-asp130-5.1.10.zip`) to the AVP filesystem at the `/vmfs/volumes/server-local-disk` directory.

3. In the `/vmfs/volumes/server-local-disk` directory, to unzip the upgrade bundle, type the following command and press **enter**:

```
unzip <upgrade-avaya-asp130-5.1.10.zip>
```

Output:

```
[admin@avp229:/vmfs/volumes/6237fd15-ae08a68a-43b5-e4434bdf7144] unzip upgrade-
avaya-asp130-5.1.10.zip
Archive:  upgrade-avaya-asp130-5.1.10.zip
  inflating: avaya-asp130-5.1.10.zip
  inflating: aspupgrade.sh
```

4. Type the following command and press **enter**:

```
/vmfs/volumes/server-local-disk/aspupgrade.sh /vmfs/volumes/server-
local-disk/avaya-asp130-5.1.10.zip
```

If Appliance Virtualization Platform is installed on the supported hardware, the system displays the following message and proceeds:

```
[admin@avp229:/vmfs/volumes/6237fd15-ae08a68a-43b5-e4434bdf7144] /vmfs/
volumes/server-local-disk/aspupgrade.sh /vmfs/volumes/server-local-disk/avaya-
asp130-5.1.10.zip
Mon Mar 21 15:46:00 UTC 2022
Hardware Supported for ASP Migration
```

5. Type `Y`, if application backups are taken and proceed to create a root password.

It is recommended to take backup of all applications before migration. Backup all the trap listener configuration from AVPU as AVPU is removed during migration. For more information on backing up the trap listener configuration from AVPU, see *Administering Avaya Aura® AVP Utilities* documentation.

Output displayed after you type `Y` and press **enter**:

```
It is recomended to take backup of all applications before migration. Also backup
all the trap listener configuration from AVPU as AVPU will be removed during
migration.
Have you taken backup of all applications? [Y/N] : Y
watchdog-hostd: Terminating watchdog process with PID 66957
hostd stopped.
hostd started.
Connection failed
Connection failed
   Product: VMware ESXi
   Version: 6.5.0
   Build: Releasebuild-18071574
   Update: 3
   Patch: 161
Updated System defaults.
Enabled AutoStart
Creating user 'root'...adduser: user 'root' in use
User 'root' already exists
Changing password for root

You can now choose the new password.
```

```
A valid password should be a mix of upper and lower case letters,
digits, and other characters.  You can use an 8 character long
password with characters from all of these classes.  An upper
case letter that begins the password and a digit that ends it do
not count towards the number of character classes used.

Alternatively, if no one else can see your terminal now, you can
pick this as your password: "Cage7Dull$drift".
```

> ✱ **Note:**
>
> The suggested password "`Cage7Dull$drift`" is an example. This password is randomly generated and is always different every time you create the root account using upgrade script at step 3.

Output displayed after you type `N` and press **enter**. The script stops execution after displaying the following message:

```
Have you taken backup of all applications? [Y/N] : N
Please take backup of all applications and then rerun the script
```

6. In **Enter new password**, type `ACP130_pw` as the new root account password.

> ✱ **Note:**
>
> `ACP130_pw` is an example password that is used for Avaya pre-staged servers. Avaya recommends that the customer change the password to a unique, secure password.

7. In **Re-type new password**, type the new root account password again and press **enter**.

   Output:

```
passwd: password updated successfully
SSH login disabled
SSH login enabled
'root' has been successfully created. We are ready to lock out
'admin' account.
Please make sure you can log onto the system using 'root' before
continue.
```

8. Open a second PuTTY session to AVP Management IP while keeping the previous session up. Log in to Appliance Virtualization Platform using the root account and credentials created during the upgrade. If successful, close this PuTTY session and return to the original PuTTY Session.

9. After successfully logging in to Appliance Virtualization Platform with the root password, the Appliance Virtualization Platform displays **Can you log onto this system using 'root' account** prompt.

   • Output displayed after you type `Y` and press **enter**:

```
Can you log onto this system using 'root' account? [Y/n] : Y
admin account lockout complete
```

   Once the admin account is locked, the system proceeds to shut down applications.

- Output displayed after you type `n` and press **enter**. The script stops execution after displaying the following message:

```
Can you log onto this system using 'root' account? [Y/n] : n
admin account isn't locked out because you couldn't log onto the
system using 'root' account.
Please rerun to lock out 'admin' account
```

10. After the applications are shut down, the Appliance Virtualization Platform enters maintenance mode.

   The system starts the Avaya Solutions Platform 130 patch installation and performs dry run for the upgrade.

   - If dry run for the upgrade is successful, the system proceeds to patch installation.

     After the patch installation is complete, the system displays the following message:

     ```
     ASP patch installation complete
     ```

     The system exits from the maintenance mode and reboots.

     If the AVP Utilities application is installed on Appliance Virtualization Platform, the system deletes it.

   - If the dry run for upgrade fails, the system exits maintenance mode and patch installation.

     ```
     Shutting down Serverid 1
     Waiting for 20 seconds for serverid 1 to shutdown, attempt 0
     Shutting down Serverid 2
     Waiting for 20 seconds for serverid 2 to shutdown, attempt 0
     Shutting down Serverid 3
     Waiting for 20 seconds for serverid 3 to shutdown, attempt 0
     Waiting for 20 seconds for serverid 3 to shutdown, attempt 0
     All guest VMs shut down
     Enter Maintenance Mode
     Starting ASP R5.1 patch installation
     Conducting dry run for the upgrade
     Installation Result
        Message: Dryrun only, host not changed. The following
     installers will be applied: [BootBankInstaller, LockerInstaller]
        Reboot Required: true
     ```

   Once the dry run for ESXi upgrade is successful, you will see the following message:

   ```
   Dry run for upgrade successful. Proceeding for actual upgrade ...
   Installation Result
      Message: The update completed successfully, but the system
   needs to be rebooted for the changes to be effective.
      Reboot Required: true
   ```

   You will see the following message after a successful upgrade:

   ```
   ASP R5.1 patch installation complete
   Cleaning up some AVP code
   Setting up Services portgroup for ASP130/ASP S8300 Server
   Generating Certificates with current hostname [avp229.aura.com]
   ```

```
Services port configured
New vmk1 for Services Port
Name  IPv4 Address  IPv4 Netmask    IPv4 Broadcast  Address Type   Gateway   DHCP
DNS
----  ------------  --------------- --------------  ------------   -------
--------
vmk1  192.11.13.6   255.255.255.252 192.11.13.7     STATIC         0.0.0.0
false
Restoring default shell timeout setting
Setting up an Idle time of 10 minutes before an interactive shell session is
automatically logged out
Setting up an Idle time of 10 minutes before an interactive Host Client session
is automatically logged out
Enabling and starting SSH on host
Exit Maintenance Mode
Deleting AVPU VM
Going for Reboot ....
```

11. To check if the Avaya Solutions Platform 130 host is ready to use after migration, run a ping test to the Management IP of the host using the following command: `ping <management IP>`

   After a successful ping test, login with your credentials and proceed to the next step.

   ⊛ **Note:**

   If the ASP 130 does not respond, troubleshoot the issue. Some issues resolve with a reseat of the server, some issues require a reimage and redeploy of all software and restoration of application backups. Other issues require a replacement of ASP 130 physical server.

12. Connect to Avaya Solutions Platform 130 remotely or through the services port.

   • If connecting remotely, open a web browser and connect to the Management IP (https://<hostIP>/ui)

   • If connecting through a services port, use an SSH client and connect to the server through the eth1 services port using the following network parameters on your local PC:

      - IP address: 192.11.13.5

      - Netmask: 255.255.255.252

      - Gateway: 192.11.13.6

   The SSH client must use UTF-8 and TLS 1.2.

   You can access the ASP 130 host with the following IP address: 192.11.13.6

   Open a web browser and connect to the ESXi host - `https://192.11.13.6/ui`

   To log in to the ESXi and gain access to the Avaya Solutions Platform 130 host, the user name is `root`, and the password is the one you created during the migration at step 6.

13. Navigate to **Host** > **Manage** > **System** and verify if **Autostart** is enabled. If it is not, enable **Autostart**.

System	Hardware	Licensing	Packages	Services	Security & users

Advanced settings	✏ Edit settings
Autostart	
Swap	Enabled — Yes
Time & date	Start delay — 0s
	Stop delay — 0s
	Stop action — Shut down
	Wait for heartbeat — Yes

14. Check if **Autostart order** is enabled for virtual machines. To enable autostart priority for a VM, select the VM and click **Enable**.

    ✳ **Note:**

    - Setting **Autostart order** for VMs in a specific order ensures that all VMs in the host reboots in the same order.

    - The **Autostart order** is initially set to the order in which autostart is enabled on the virtual machines. If **Autostart order** is not set initially, you need to rearrange the **Autostart order** manually later.

    The following screenshot displays **Autostart order** disabled.

🔲 Enable	Start ~~Virtual machine~~ ure	🔲 Disable	⟳ Refresh	⚙ Actions			🔍 Search
Virtual machine ⌄		Shutdown behavior ⌄		Autostart order ⌄	Start delay ⌄	Stop delay ⌄
🔳 cm102		System default		Unset	0 s	0 s
🔳 bsm103		System default		Unset	0 s	0 s

15. After enabling autostart order of VMs, to configure a VM to start earlier or later when compared to other VMs, click **Start earlier** or **Start Later**

    Select a VM and click **Start earlier** to schedule autostart earlier compared to other VMs in the **Autostart order**. The following screenshot displays **Autostart order** enabled for both VMs and **Start earlier** selected for the **cm102** VM:

🔲 Start later	🔲 Start earlier	🔲 Configure	🔲 Disable	⟳ Refresh	⚙ Actions	🔍 Search
Virtual machine ⌄		Shutdown behavior ⌄		Autostart order ⌄	Start delay ⌄	Stop delay ⌄
🔳 cm102		System default		1	0 s	0 s
🔳 bsm103		System default		2	0 s	0 s

    Select a VM and click **Start later** to schedule autostart later compared to other VMs in the **Autostart order**. The following screenshot displays **Autostart order** enabled for both VMs and **Start later** selected for the **bsm103** VM:

16. Navigate to **Time & date** and verify time and date are set. If not, configure time and date.

17. Check if NTP is configured.

   ✴ **Note:**

   For more information on configuring the NTP server, see *Steps required to set Host time and date* section in the *Installing Avaya Solutions Platform 130 Series* Release 5.1 publication.

18. Navigate to **Networking** > **Default TCP/IP stacks** and verify DNS configuration.

19. Navigate to **Host** > **Manage** > **License** and install the ESXi 7.0 license you downloaded from PLDS.

   ✴ **Note:**

   Install the ASP 130 with a valid license file. For more information on installing a valid license file, see <u>Installing ESXi license</u> on page 26.

20. Select the Avaya Solutions Platform 130 host and verify application Virtual Machines are up and working properly.

21. If application backups are saved off the host, you are ready to update your applications from Avaya Aura® 8.1.x to Avaya Aura® 10.1. Refer to application specific documentation for upgrade instructions and restoration of application backups after the upgrade is complete.

Installing ESXi license

About this task

To perform the server recovery or software remastering, you will need to assign the customer's original VMware license key to the system. The license key can be obtained from the customer's PLDS account. This process has changed from Avaya Solutions Platform 130 4.0.

Due to changes in our third-party vendor agreement, all NEW orders for ASP 5.1.x will no longer have the ESXi license key posted in PLDS. A unique standard license key will be provided on a label on the ASP 130 server lid. In the event of a server replacement, the server lid with the ESXi license key must be moved to the new replacement server. Existing ASP 130 servers with a license obtained from PLDS are **not** impacted by this change, only new orders shipped from Avaya's Integrator and warehouses. Existing inventory that was previously sold to Distributors and Partners and is present in their supply chain, will still have the old key. Only when they replenish stock with new orders, post the cutover, will the change take place. *Target cutover is tentatively scheduled for early-mid August, 2024, subject to change. Ensure you are signed up for e-notification.*

Before you begin

Ensure that you:

• Acquire the customer's existing ESXI 7.0 license key from PLDS.

Procedure

1. Log in to the ESXi host at the URL `https://[IP Address of host]/ui`.

   Replace `[IP Address of host]` in the URL with the actual IP address of the host.

2. From the main ESXi management interface page, there is a notice about the system being in an ESXi evaluation mode for 60 days. Once the customer's license key is assigned to ESXi this warning message will clear.

   ✱ **Note:**

   The following image is just a representation and should only be used as an example.

3. In the Navigator pane on the left, click **Manage**.

4. On the **Licensing** tab, click **Assign license**.

5. In the subsequent dialog box, copy and paste in the license key. Then click the **Check License** button.

   If this is an ESXi 6.5 system, the License key is on a label located on the R640 server lid.

   If this is an ESXi 7.0 system, then the License key should be accessed from Avaya PLDS.

6. VMware will validate the license and return a green check mark, indicating the key is valid. Click **Assign license** to apply it and complete the process.

Chapter 6: Administering Avaya Solutions Platform 130

Regenerating Avaya Solutions Platform 130 self-signed certificate with FQDN using the command line interface

About this task

Before adding an Avaya Solutions Platform 130 host, to regenerate the Avaya Solutions Platform 130 self-signed certificate with FQDN, perform the following steps:

For information about adding an Avaya Solutions Platform 130 host, see

Procedure

1. Log in to the Avaya Solutions Platform 130 command line interface.

2. To change the FQDN, type the following command:

   `esxcli system hostname set --fqdn=server.abc.com`

   Here, `server.abc.com` is the FQDN of the ESXi host.

   For more information, see Changing the host name on the VMware documentation website.

3. To regenerate the self-signed certificate, do the following:

   a. Enable SSH on the ESXi host, then put the ESXi host into the maintenance mode.

   b. SSH to the ESXi host and use the following commands to take backups of the current certificate file and private key file.

      `cd /etc/vmware/ssl`

      `mv rui.crt rui.crt.bkp`

      `mv rui.key rui.key.bkp`

   c. To regenerate a new certificate, type the following command:

      `/sbin/generate-certificates`

      Verify that the new certificate file and private key file are generated.

   d. To restart the ESXi Server management agent, reboot the host.

The ESXi host generates a new self-signed certificate.

For more information, see [Generating new self-signed certificates for the ESXi host](#).

Adding an Avaya Solutions Platform 130 Release 5.1 host

About this task

Use this procedure to add an Avaya Solutions Platform 130 Release 5.1 host. You can associate an Avaya Solutions Platform 130 Release 5.1 host with an existing location.

Before you begin

- If you are connected to the Avaya Solutions Platform 130 host through the services port using the SDM client, perform the following:
    1. Edit the `C:\Windows\System32\Drivers\etc\hosts` file in your laptop to add the IP Address and FQDN of the host.
    2. Add the host in the format 192.11.13.6 *<changed FQDNname>*

        For example: `192.11.13.6 esxihost6.hostdomain.com`

- If Appliance Virtualization Platform that was migrated to Avaya Solutions Platform 130 Release 5.1 is available in Solution Deployment Manager on the **Platforms** tab, remove that Appliance Virtualization Platform and then add the Avaya Solutions Platform 130 Release 5.1 host.

- Regenerate the self-signed certificate using the FQDN.

    See "Regenerating Avaya Solutions Platform 130 self-signed certificate with FQDN using the command line interface".

- Add Avaya Solutions Platform 130 host to an existing location or associate it with a new location.

- Install a valid license file on the Avaya Solutions Platform 130 Release 5.1 host.

Procedure

1. To add an Avaya Solutions Platform 130 host using System Manager SDM or SDM client, choose one of the following:

    - For System Manager SDM, on the System Manager web console, click **Services** > **Solution Deployment Manager** > **Application Management**.

    - For SDM client, on the **SDM Client** web console, click **Application Management**.

2. In **Application Management Tree**, select an existing location or add a new location.

3. On the **Platforms** tab, in the Platforms for Selected Location <location name> section, click **Add**.

4. In the New Platform section, do the following:

    a. Provide details of Platform name, Platform FQDN, username, and password.

For Avaya Solutions Platform 130 deployment, you can also provide the root username.

   b. In **Platform Type**, select **ASP 130/S8300**.

5. Click **Save**.

The Avaya Solutions Platform 130 certificate is updated based on the platform FQDN.

After adding an Avaya Solutions Platform 130 host using System Manager SDM or SDM client, perform the following:

6. Deploy the required virtual machines.

7. In the Certificate dialog box, click **Accept Certificate**.

System Manager generates the certificate and adds the Avaya Solutions Platform 130 host.

In the **Application Management Tree**, System Manager displays the new host in the specified location and discovers applications.

Next steps

1. In Application Management Tree, establish trust for all the virtual machines deployed on the host.
2. Ensure that the system populates **Application Name** and **Application Version** for each virtual machine.

Enabling and disabling SSH on Avaya Solutions Platform 130 Release 5.1 from Solution Deployment Manager

About this task

Use this procedure to enable SSH on Avaya Solutions Platform 130 from Solution Deployment Manager.

> ✳ **Note:**
>
> After installing Avaya Solutions Platform 130, SSH is enabled automatically. The only time this procedure is necessary is if the ASP SSH enable/disable shell script is executed or if SSH is disabled manually from the ESXi embedded host client or via Solution Deployment Manager.

Procedure

1. In **Application Management Tree**, select a location.

2. Select the required host.

3. To enable SSH, do the following:

   a. Click **More Actions** > **SSH** > **Enable SSH**.

   b. In the Confirm dialog box, in **Time (in minutes)**, type the time after which the system times out the SSH connection.

The range is 10 minutes through 120 minutes.

   c. Click **Ok**.

Solution Deployment Manager displays `enabled` in the **SSH status** column.

4. To disable SSH, click **More Actions** > **SSH** > **Disable SSH**.

Solution Deployment Manager displays `disabled` in the **SSH status** column.

Chapter 7: Post-migration verification

EASG status

If Enhanced Access Secure Gateway (EASG) was disabled on the Avaya Virtualization Platform prior to migration, EASG stays disabled on the Avaya Solutions Platform 130 post migration.

For more information on EASG, see *Installing the Avaya Enhanced Access Secure Gateway* section in the *Installing Avaya Solutions Platform 130* publication.

Verifying the Avaya Solutions Platform 130 software release and the ESXi version

Procedure

1. Log in to the ESXi host by using a *Secure Shell (SSH)* client, such as PuTTY (Not provide by Avaya).

2. Authenticate using the existing *root* credentials.

3. To verify the Avaya Solutions Platform 130 software release, type the following command: `cat /opt/avaya/etc/avaya-asp.version` and press **Enter**:

   Example output:

   ```
   ASP Release 5.1
   ```

4. To verify the ESXi version, type either the `vmware -vl` command or the `esxcli system version get` command.

   Example output after you type the `vmware -vl` command and press **enter**:

   ```
   VMware ESXi 7.0.3 build-19193900
   VMware ESXi 7.0 Update 3
   ```

   Example output after you type the `esxcli system version get` command and press **enter**:

   ```
   Product: VMware ESXi
   Version: 7.0.3
   Build: Releasebuild-19193900
   Update: 3
   Patch: 20
   ```

Comments on this document?

Chapter 8: Resources

Avaya Solutions Platform 130 documentation

The following documents are available on Avaya support site at https://support.avaya.com/:

Title	Description
Avaya Solutions Platform 130 Overview and Specification	Describes the key features of Avaya Solutions Platform
Avaya Solutions Platform 130 Series - Upgrading to R5.1.0.2.0 (ESXi 7.0 U3i) from R4.x (ESXi 6.5.x) or R5.x. (ESXi 7.0.x)	Describes procedure to perform upgrade to latest ASP 130 R5.x release from earlier ASP 130 R4.x and ASP 130 5.x.
Installing the Avaya Solutions Platform 130 Series 5.1.x	Describes how to install Avaya Solutions Platform 130 Series 5.1.x.
Maintaining and Troubleshooting the Avaya Solutions Platform 130 Series 5.1.x	Describes procedures to maintain and troubleshoot Avaya Solutions Platform 130 Series 5.1.x.
Migrating from Appliance Virtualization Platform to Avaya Solutions Platform 130 Release 5.1	Describes procedure to migrate from AVP to latest ASP 130 R5.x release.
Avaya Solutions Platform 130 Series iDRAC9 Best Practices	Describes the best practices of using Integrated Dell Remote Access Controller (iDRAC).
PSN027105u - Avaya Solutions Platform 100 series Dell® R640 Avaya Certified BIOS/Firmware Update, Version 11.0	This is a Product Support Notice about Dell® R640 Avaya Certified BIOS/FW Update. For reference search the Avaya support web site for: *Avaya Solutions Platform 100 Series Dell® R640 Avaya Certified BIOS/Firmware Update* and select the latest version of the PSN.
PCN2146S Avaya Solutions Platform 130 5.1.x	This is a Product Correction Notice about the availability of ASP 130 R5.1.x and Avaya's Customized Image of VMware ESXi 7.0.

Table continues…

Title	Description
Port Matrix for ASP 130	This document provides a list of interfaces, TCP and UDP ports that hardware components and applications use for intra-connections and for inter-connections with external applications or devices.
Policies for technical support of the Avaya Solutions Platform (ASP) 130 R4.x, R5.x and ASP S8300 R5.1	This document and statements related to support are only with respect to Avaya Services support of the software and hardware of the Avaya Solutions Platform (ASP) 130 server based on supported and tested configurations.

Appliance Virtualization Platform documentation

The following table lists the documents related to Appliance Virtualization Platform. Download the documents from the Avaya Support website at http://support.avaya.com.

Title	Description	Audience
Implementing		
Deploying Avaya Aura® Appliance Virtualization Platform	Deploy, configure, and administer Avaya Aura® Appliance Virtualization Platform.	Implementation personnel
Upgrading Avaya Aura® Appliance Virtualization Platform	Upgrade Avaya Aura® Appliance Virtualization Platform.	Implementation personnel
Administration		
Avaya Aura® Appliance Virtualization Platform and AVP Utilities Data Privacy Guidelines	Describes how to administer Avaya Aura® Appliance Virtualization Platform to fulfill Data Privacy requirements.	Implementation personnel, system administrator, service and support personnel

Finding documents on the Avaya Support website

Procedure

1. Navigate to http://support.avaya.com/.

2. At the top of the screen, type your username and password and click **Login**.

3. Click **Support by Product** > **Documents**.

4. In **Enter your Product Here**, type the product name and then select the product from the list.

5. In **Choose Release**, select an appropriate release number.

6. In the **Content Type** filter, click a document type, or click **Select All** to see a list of all available documents.

   For example, for user guides, click **User Guides** in the **Content Type** filter. The list displays the documents only from the selected category.

7. Click **Enter**.

Accessing the port matrix document

Procedure

1. Go to https://support.avaya.com.

2. Log on to the Avaya website with a valid Avaya user ID and password.

3. On the Avaya Support page, click **Support by Product** > **Documents**.

4. In **Enter Your Product Here**, type the product name, and then select the product from the list of suggested product names.

5. In **Choose Release**, select the required release number.

6. In the **Content Type** filter, select one or both the following categories:

   • **Application & Technical Notes**

   • **Design, Development & System Mgt**

   The list displays the product-specific Port Matrix document.

7. Click **Enter**.

Avaya Documentation Center navigation

For some programs, the latest customer documentation is now available on the Avaya Documentation Center website at https://documentation.avaya.com.

 Important:

For documents that are not available on Avaya Documentation Center, click **More Sites** > **Support** on the top menu to open https://support.avaya.com.

Using the Avaya Documentation Center, you can:

• Search for keywords.

   To filter by product, click **Filters** and select a product.

• Search for documents.

From **Products & Solutions**, select a solution category and product, and then select the appropriate document from the list.

- Sort documents on the search results page.

- Click **Languages** (⊕) to change the display language and view localized documents.

- Publish a PDF of the current section in a document, the section and its subsections, or the entire document.

- Add content to your collection using **My Docs** (☆).

  Navigate to the **Manage Content** > **My Docs** menu, and do any of the following:

  - Create, rename, and delete a collection.

  - Add topics from various documents to a collection.

  - Save a PDF of the selected content in a collection and download it to your computer.

  - Share content in a collection with others through email.

  - Receive collection that others have shared with you.

- Add yourself as a watcher using the **Watch** icon (👁).

  Navigate to the **Manage Content** > **Watchlist** menu, and do the following:

  - Enable **Include in email notification** to receive email alerts.

  - Unwatch selected content, all content in a document, or all content on the Watch list page.

  As a watcher, you are notified when content is updated or deleted from a document, or the document is removed from the website.

- Share a section on social media platforms, such as Facebook, LinkedIn, and Twitter.

- Send feedback on a section and rate the content.

 ✳ **Note:**

Some functionality is only available when you log in to the website. The available functionality depends on your role.

Viewing Avaya Mentor videos

Avaya Mentor videos provide technical content on how to install, configure, and troubleshoot Avaya products.

About this task

Videos are available on the Avaya Support website, listed under the video document type, and on the Avaya-run channel on YouTube.

- To find videos on the Avaya Support website, go to https://support.avaya.com/ and do one of the following:

  - In **Search**, type `Avaya Mentor Videos`, click **Clear All** and select **Video** in the **Content Type**.

  - In **Search**, type the product name. On the Search Results page, click **Clear All** and select **Video** in the **Content Type**.

    The **Video** content type is displayed only when videos are available for that product.

  In the right pane, the page displays a list of available videos.

- To find the Avaya Mentor videos on YouTube, go to www.youtube.com/AvayaMentor and do one of the following:

  - Enter a key word or key words in the **Search Channel** to search for a specific product or topic.

  - Scroll down Playlists, and click a topic name to see the list of videos available for the topic. For example, Contact Centers.

  ✱ **Note:**

    Videos are not available for all products.

Support

Go to the Avaya Support website at https://support.avaya.com for the most up-to-date documentation, product notices, and knowledge articles. You can also search for release notes, downloads, and resolutions to issues. Use the online service request system to create a service request. Chat with live agents to get answers to questions, or request an agent to connect you to a support team if an issue requires additional expertise.

Using the Avaya InSite Knowledge Base

The Avaya InSite Knowledge Base is a web-based search engine that provides:

- Up-to-date troubleshooting procedures and technical tips

- Information about service packs

- Access to customer and technical documentation

- Information about training and certification programs

- Links to other pertinent information

If you are an authorized Avaya Partner or a current Avaya customer with a support contract, you can access the Knowledge Base without extra cost. You must have a login account and a valid Sold-To number.

Use the Avaya InSite Knowledge Base for any potential solutions to problems.

1. Go to http://www.avaya.com/support.
2. Log in to the Avaya support website with a valid Avaya user ID and password.

   The system displays the Avaya Support page.
3. Click **Support by Product** > **Product-specific Support**.
4. In **Enter Product Name**, enter the product, and press Enter.
5. Select the product from the list, and select a release.
6. Click the **Technical Solutions** tab to see articles.
7. Select relevant articles.

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