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Introduction

This document outlines how to bring up your own SAP S/4HANA trial system using the SAP Cloud Appliance Library (SAP CAL).

An appliance is a preconfigured system image that can be deployed as your dedicated system in a cloud provider account owned by your company (i.e. the underlying hardware is located in the cloud but the system is not shared with other customers).

A deployment of the trial system image on your own on-premise hardware is also possible (the last slide in this deck has more information).

Note:
The screenshots in this document might not always show the latest release version of the trial but the principle is the same for all releases.
SAP S/4HANA Fully Activated Appliance
The Software Appliance Concept

Create your own system instance in a fraction of the usual setup time

- 2-3 hours via SAP CAL, hosted in AWS / MS Azure / GCP
- 2-3 days when deploying on own physical hardware
- Main use cases: Trial / Sandbox / PoC / Scoping
- Open to customer, partner, SAP employee, and public users

SAP S/4HANA & additional components
SAP Best Practices & technical settings
Sample data & demo scenarios
Software
Configuration
Walk-throughs
SAP S/4HANA, Fully-Activated Appliance

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Use Cases & Scope
SAP S/4HANA Fully-Activated Appliance Trial
Using the SAP S/4HANA Fully-Activated Appliance - Information at a Glance

Scope

- SAP S/4HANA, SAP NW JAVA / Adobe Document Services, Remote Desktop, SAP BI Platform
- Sample pre-configured SAP Best Practices scenarios and end-to-end business processes (incl. master & transactional demo data). See here for suggested demo walk-throughs.
- Explore additional scope at your own discretion (full admin rights, no shared system)

Costs

- During the first 30 days, the SAP product licenses are waived for the supported trial scenarios. Extended usage beyond 30 days requires SAP S/4HANA product licenses and an SAP Cloud Appliance Library subscription (see here).
- The trial user has to provide an account at a hyperscaler (AWS / MS Azure / GCP) and bear the costs for it (~ 3-4 USD per uptime hour plus small monthly storage fee*)

Access

- https://www.sap.com/products/s4hana-erp/trial.html → Start your 30 day trial
- Step-by-step videos (“from hyperscaler account to system access”)
- Support needed ? Ask a question in the SAP CAL Community

*Estimate, charged fees may vary depending on geographical region and individual customer conditions. Trial system can be suspended and re-activated on an hourly basis.
SAP S/4HANA 2021 Fully-Activated Appliance
Included Sample Demo Processes

- Overview Pages for Finance / Sales / Procurement
- Lease-in Accounting
- Fin. Planning & Analysis
- Gen. Ledger Allocation
- Purchase Order Accruals
- Predictive MRP
- Master Data Governance
- SAP Screen Personas
- Warehouse Inbound Processing
- Human Capital Mgmt.
- Data Migration
- SAP S/4HANA Service
- Rapid Fiori activation
- Print Form Customization
- Advanced Variant Config.
- Group Reporting
- Investments
- Universal Allocation
- Overdue Receivables
- Sell-from-stock / Outbound Delivery Processing
- Transportation Management
- Predictive Analytics
- Extensibility (Fiori & SAP BTP *)
- Application Interface Frwk.
- Basic Bank Account Mgmt.
- Plan-to- Produce
- Portfolio & Project Mgmt.
- Analytics
- Treasury
- Plant Maint. / Quality Mgmt.

* Certain integration & extensibility scenarios might require separate accounts/tenants e.g. for SAP Business Technology Platform (BTP) or SAP Analytics Cloud (SAC). Demo scenarios use the localized US configuration, transactional data is created in US company code 1710.
SAP S/4HANA Fully-Activated Appliance

Technical Components of the Appliance

(1) SAP S/4HANA
   - ABAP Server
     - S/4HANA Core
     - SAP NetWeaver
     - SAP Best Practices
   - SAP HANA

(2) SAP NW JAVA / ADS
   - JAVA Server
     - Adobe Document Services
     - SAP NetWeaver JAVA
   - SAP Sybase ASE

(3) Remote Desktop
   - Windows Remote Desktop
     - SAP GUI
     - ABAP Dev Tools / HANA Studio
     - SAP Lumira (Discovery & Designer)

(4) BI Platform
   - SBOP BOE
     - SBOP BI Platform
     - BI Best Practice Content

* Note:
- BI Platform and remote desktop are optional in CAL (will decrease hosting fee if you opt out).
- Both are included by default but you can opt-out in the Advanced Mode of instance creation. This can not be undone unless you create a new instance that has them in again.
SAP S/4HANA Fully-Activated Appliance
Landscape & costs on AWS / Azure / GCP when using SAP CAL

SAP CAL is using 3rd party hosting providers

- You need an Amazon Web Services (AWS), MS Azure or Google Cloud Platform (GCP) account and bear the hosting fees for it
- The solution consists of 4 single virtual machines that are coupled automatically into one solution instance
- The appliance can be suspended and re-activated on an hourly basis (system state will be preserved when suspended)
- Rough estimation for hosting fees *
  - ~ 3-4 USD per uptime hour (plus small storage fee)
  - SBOP BI Platform is optional and can be removed in the advanced mode of instance creation (saves a bit of hosting fees). Remote Desktop is also optional but strongly recommended to be kept for easy access and other checks.
- Cost calculators for a detailed hosting fee estimation
  - GCP: [https://cloud.google.com/products/calculator/](https://cloud.google.com/products/calculator/)

* SAP CAL console gives you a cost estimation when creating the instance. Charged fees may vary depending on geographical regions, sizing (can be enhanced in SAP CAL), and individual customer conditions. Trial can be suspended and re-activated on an hourly basis. Additional small fee for storage (~ 100USD / month) is charged in addition to hourly fees.
SAP S/4HANA Fully-Activated Appliance

Start your Trial
Step-by-Step

- Get a cloud provider account at AWS/Azure/GCP
  - Prerequisite

- Register on cal.sap.com
  - Step 1-3

- Create your personal S/4HANA system instance
  - Step 4-6

- Review & manage your instance
  - Step 7 & 8

- Access your instance
  - Step 9: via remote desktop
  - Step 10: via local access
SAP S/4HANA Fully-Activated Appliance trial
Prerequisite: Obtain an account for Amazon AWS or Microsoft Azure or Google Cloud Platform

Prerequisite:
– Your own an account at Amazon AWS (EC2), Microsoft Azure*, or Google Cloud Platform (GCP)
  ▫ Details steps per provider in SAP CAL Video Playlist or SAP CAL on sap.com

– Have the credentials of your AWS / Azure / GCP account at hand for the next step

Note:
The “typical” free hyperscaler trial offers will not have enough quota; apply for a paid account.

*Azure Classic subscriptions are not supported, please use Azure Resource Manager.
SAP S/4HANA Fully-Activated Appliance trial
Start the creation of your personal trial instance

Step 1
- Go to the trial landing page
- Choose **Start your 30-day trial now**

Links on this page contain further information:
- Quick Start Guide (the one you’re reading right now)
- Demo walkthroughs for sample scenarios
- Overview blog of the appliance
Step 2

- You will get to the home screen of the SAP Cloud Appliance Library (SAP CAL)
- Register yourself as a new user (free of charge) for SAP CAL or log on with an existing SAP CAL user name/password

Background note: SAP CAL is the ‘bridge’ between SAP software and the AWS/Azure/GCP hosting environment. In the next steps, we will use SAP CAL to make a connection between these two worlds.
SAP S/4HANA Fully-Activated Appliance trial
Accept Terms and Conditions for the 30-day trial period

Step 3

– After you entered your user credentials and logged on you will be presented with the Terms and Conditions. Scroll down to read.
– Choose I Accept.
– Important: The 30-day trial period starts when you accept the Terms and Conditions (and not when you create your first instance)
SAP S/4HANA Fully-Activated Appliance trial

Enter your AWS/Azure/GCP account and create your personal SAP S/4HANA system

Step 4

In the SAP Cloud Appliance Library Instance Creation page you have to specify your cloud provider account (see step 1)

- Click ‘Create a new account’ (or click ‘existing account’ if you already have entered a cloud provider account before)
  - Enter a name and description for the cloud provider account
  - Choose your Cloud Provider (this slide takes AWS as example)
  - Enter credentials / certificates (as obtained from your cloud provider)
  - Test Connection lets you verify the credentials
- Enter Instance Details (this will become your personal S/4HANA system)
  - Name of the instance (this will show up in the CAL console)
  - The data center region where you would like the appliance to be hosted (typically close to you)
- Define the master password for your appliance (this will be assigned to various administrator users e.g. HANA SYSTEM user, or remote desktop Administrator)
- Click Create (note – if you need static IP addresses for your system, choose Advanced Mode)
Step 4 (additional information):

Remarks on next 30 days cost forecast:

– An initial cost estimation for the hosting costs is displayed, based on the recommended default sizing of the appliance (see earlier in this presentation).

– This contains an per-active-hour component and a monthly flat fee for disc storage. The initial display only lists the hourly / monthly fee, if you start using the instance and schedule it, the forecast will be adapted as much as possible.

– Important: This is a cost estimation, **not a guaranteed price offer**. Please make sure that you understand the cost calculation of your cloud provider (see earlier slide in this presentation)

– In the Advanced Mode for the instance creation, you can enhance the sizing of the different virtual machines, and opt-out of the BI Platform or the Remote Desktop which will save some costs (opt-out can not be undone).
SAP S/4HANA Fully-Activated Appliance trial
Download private key for the instance (only needed for backend Linux operating system access)

Step 5

– When prompted for the private key, choose Store
  ▫ Note: The private key is a small .PEM text file and it is only needed in case you want to access the Linux operating system of the trial landscape (see here for instructions)
  ▫ If you store the key within CAL in this step, you can download it later from CAL
  ▫ If you download the key in this step, you can not store it again within CAL but have to keep it stored locally on your computer (potentially encrypted with a password).

– The system will now be created in your AWS/Azure/GCP account. Time for this may vary depending on provider, region and current system load (~ 1-2 hours should suffice in most cases).

– You may access the remote desktop earlier but creation of the SAP S/4HANA system will take longer than the remote desktop creation (so even if you can enter the remote desktop already, the SAP S/4HANA system might not be responding yet).

– In general, the initial clicks in the system will be slow (until caches are pre-filled), as for all newly brought up SAP systems.
### Step 6

- After the deployment time your system is ready for logon.
- Clicking on the instance name lets you view the details of the instance (see steps 7&8)
- The *Connect* button provides direct logon access to
  - Remote Desktop
  - SAP GUI
  - BI Launchpad
  - SAP NetWeaver administrator (JAVA)
- Fiori Launchpad access works either via Remote Desktop (see step 9) or via local browser after hosts file mapping (see step 10)
Step 7

On the **General Properties** tab of the details page you can see the IP addresses of the instance components:
- SAP S/4HANA (ABAP)
- SAP NW JAVA with Adobe Document Services
- Windows Remote Desktop
- SAP BusinessObjects BI platform

When you choose to connect to the instance without using the dedicated Connect button (see step 6), you will need to use the **external** IP addresses in step 10 (Click on More to see them all). The internal IP addresses are only needed in case of troubleshooting.
SAP S/4HANA Fully-Activated Appliance trial
Controlling and administering your instance

Step 8
– On the instance overview page you can control your instance
  – **Suspend** creates a snapshot of the current instance state and puts the instance into a sleep mode (takes ~5-10 minutes). This will save hosting costs since the hosting providers will only charge a small fee for system storage.
    By default, the solution will automatically be suspended after 8 hours. Use “Schedule Configuration” in the details page to define your own ‘uptime’ schedule
  – **Activate**: Once the appliance is suspended, an Activate button will appear in the UI that lets you wake up the instance again (takes ~10-15 minutes). Data and state of the instance at the time of ‘Suspend’ are preserved.
  – **Terminate** will erase the instance. This action can not be undone, however, you can create a new instance if you terminated an instance accidentally. Select the ‘Termination Protection’ checkbox to avoid accidental termination of the instance
  – For further control options, please see the SAP CAL documentation
Step 9a: Connecting to system via Windows Remote Desktop

- Click on Connect to display the access links to the system.
- Click on ‘RDP / Windows Remote Desktop’ if you would like to use the embedded remote desktop (recommended for first steps with the appliance, however, you might have some latency due to network connectivity).
  → In that case, continue with step 9b.
- You can also use a browser or SAP Logon on your local computer (a bit more effort to set up but often better network latency).
  → In that case, continue with step 10.
Step 9b: Log on to Windows Remote Desktop

- Confirm the pop-up window to allow Remote Desktop Connection
- The user for the remote desktop is ‘Administrator’ with your `<master password>` that you set in step 4

Note:
Depending on your local computer domain settings, you might need to use “More choices → Use a different account → `<IP address of remote desktop>`Administrator” as user (e.g. for the screenshot on this slide it would be `10.79.6.0/Administrator`
Step 9c: Start working on Windows remote desktop

- You are now in the pre-configured Windows remote desktop
- The Welcome page (icon down left on remote desktop) lists Fiori Launchpad URLs and users for running sample scenarios
- Click on the Fiori Launchpad link to start your work.
- See the “Demo Guides to start your exploration” on https://go.sap.com/cmp/oth/crm-s4hana/s4hana-on-premise.html for sample walk-through scenarios.

Note:
The Windows Frontend Server allows only two concurrent sessions at the same time.
If you need more concurrent sessions, you can either acquire additional licenses for the Windows Frontend Server (from Microsoft) or let your users connect from their own computers by adjusting the local hosts file (see step 10 in this presentation).
Step 9d: Confirming untrusted connection at first browser logon

- When you access links (other than Fiori) that are mentioned on the Welcome page - e.g. the SAP NetWeaver Administrator (JAVA) - you might be prompted for an untrusted connection
- Please confirm that you would like to access such URLs (Chrome example below, other browsers will have similar messages)
SAP S/4HANA Fully-Activated Appliance trial
Option 2: System connection via your local computer

Step 10a: Open your local Windows ‘hosts’ file

– First, you need to map the clear text name of the system host to the IP address that was assigned to your system by your hosting provider (you need to do the mapping every time you get a new IP address, consider using the Static IP address option during instance creation)
– Open Notepad on your local PC with the option „Run as administrator“, using right-mouse click.
– In Notepad, click on File → Open
– On your local computer, navigate to C:\Windows\System32\drivers\etc
– Select ‘All Files (*.*)’
– Open the hosts file
Step 10b: Once you have opened your local Windows ‘hosts’ file

- Enter the following lines into the hosts file (blank or tab between IP address and the text). The IP addresses are the external IP addresses from step 7:

  - For SAP S/4HANA:
    - `<External IP address of SAP S/4HANA>`
    - `vhcals4hci.dummy.nodomain vhcals4hci vhcals4hcs.dummy.nodomain vhcals4hcs vhcalhdbdb vhcalhdbdb.dummy.nodomain`
  - For NW JAVA / ADS:
    - `<External IP address of NW JAVA / ADS>`
    - `vhcalj2eci.dummy.nodomain vhcalj2eci vhcalj2ecs.dummy.nodomain vhcalj2ecs vhcalj2edb vhcalj2edb.dummy.nodomain`
  - For SBOP BI:
    - `<External IP address of SBOP BI>`
    - `bihost none.dummy.nodomain`

- Save the hosts file

These are example IP addresses, use the external IP addresses from your trial instead.

Background information:
With these entries, you can access the system servers with clear-text names (vhcals4hci, ...). These names will automatically be replaced by your browser with the respective IP addresses.
If your corporate IT guidelines don’t allow to modify your local hosts file, please check if applying a customer-specific domain/host name to your trial system is an option (see the Demo Guides Blog > A) Demo Guides > Technical)
Step 10c: Connecting to the trial system via browser

– Logon to SAP Fiori Launchpad on internet browser

– User e.g. S4H_MM_DEM

– Password: Welcome1

– Language: EN – English *

– Client: Select your client (for trial, choose 100)

*You can also log in in other languages, however, not all texts / data in the trial may be fully translated
SAP S/4HANA Fully-Activated Appliance trial
Option 2: System connection via your local computer

Step 10d: Confirming untrusted connection at first browser logon

- When you access Fiori (or other access links to the appliance) you might be prompted for an untrusted connection
- Please confirm that you would like to access such URLs (Chrome example below, other browsers will have similar messages)
Step 10e: Connecting to the trial system via SAP GUI

– Open SAP Logon on your local PC
– Add a ‘User Specified System’, with the following values
  ▫ Description: Your own definition
  ▫ Server: External IP address of the SAP S/4HANA system (see step 7) or system alias vhcals4hcs if you have maintained your hosts file (see step 10a/b)
  ▫ Instance number: 00
  ▫ System ID: S4H

– Logon to SAP GUI, with the following values:
  ▫ Client: Select your client (for trial, choose 100)
  ▫ User/password: BPINST / Welcome1 (other demo users will work as well)

– Alternatively, you can use the Connect pop-up in the CAL console, that will bring you directly to the logon screen
Further Information

Blogs & Videos
- Overview: https://blogs.sap.com/?p=727457
- Demo guides: https://blogs.sap.com/?p=796653
- Step-by-step videos ("from hyperscaler account to system access")

Support for the 30-day trial
- Problems? Check the known issues blog, browse the SAP Community for SAP CAL, or directly ask a question.
- Note: The community provides voluntary support by SAP colleagues and peers from partners/customers. No guaranteed response times or service level agreements can be stated.

Want to extend your trial beyond 30 days (SAP customers / partners only)?
- See How to keep an expiring trial instance in SAP Cloud Appliance Library
- Acquire a monthly subscription for SAP CAL (see How to acquire an SAP CAL subscription, or direct purchase in SAP Store)
- Acquire the needed SAP S/4HANA product licenses via your SAP representative or as SAP S/4HANA 90-day trial in SAP Store

Want to deploy the trial in your own data center?
- See SAP Note 2041140 how to obtain the system image via download or Blu-Ray disks