

ARCHITECTURE THINKING MINDSET / DESIGN PHASE / VALIDATE

# Craft a Solution Realization Diagram

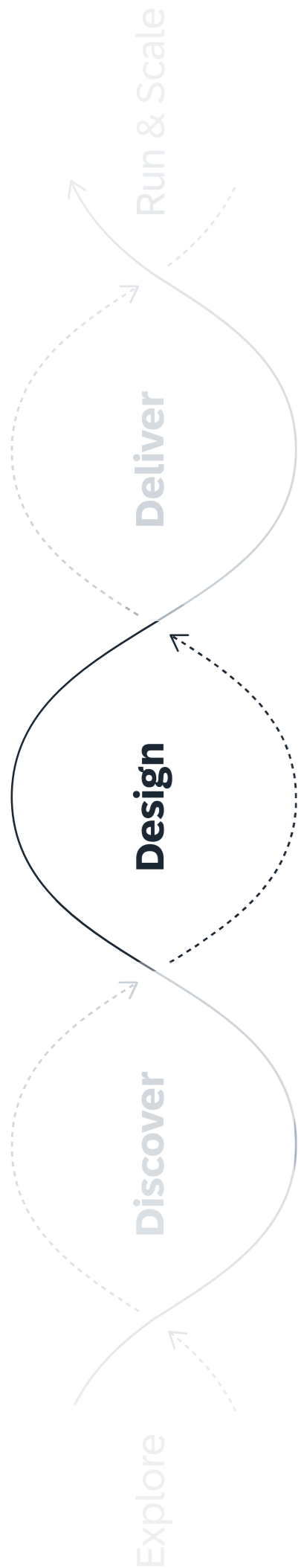
A technical description of the aspired solution via solution building blocks.

# Why To Craft a Solution Realization Diagram

The “Solution Realization Diagram” describes your target architecture by breaking the aspired solution into functional components based on solution building blocks (SBB).

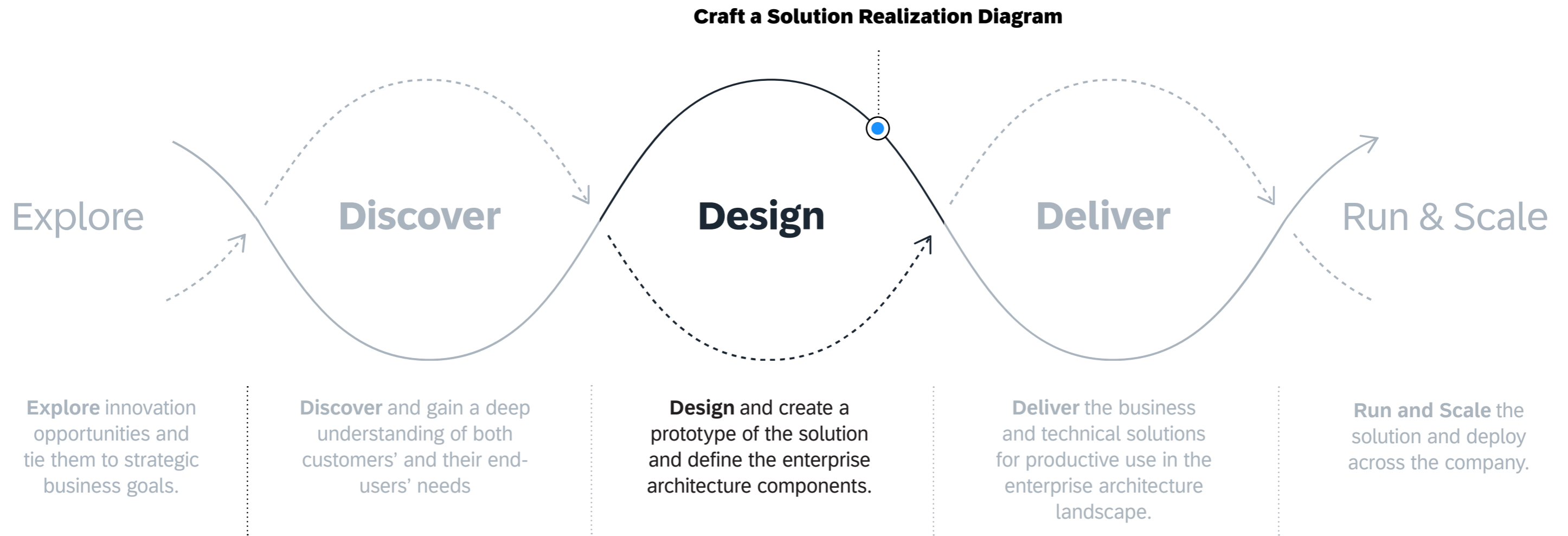
The purpose of the Solution Realization Diagram is to add technical details so that it can be used for the implementation phase of the aspired solution.

Solution Building Blocks are product- or vendor-specific and can either be developed in-house or procured. With the Solution Building Blocks you outline which products, such as cloud services, are used or need to be developed to realize and implement the desired solution and its architectural building blocks.



# When To Craft a Solution Realization Diagram

The Solution Realization Diagram is created during the Design phase after the **Solution Concept Diagram**.



Learn more about SAP's Human-Centered Approach to Innovation: <https://apphaus.sap.com/approach>

# How To

## Craft a Solution Realization Diagram



Duration  
**30 - 120 Minutes**



Participation  
**1 - 3 People**



Role  
**Architects**



- Use Input From
- **Describe the Baseline Solution Architecture**
  - **Generate a Solution Concept Diagram**
  - **SAP Discovery Center (vendor-specific information sources)**
  - **SAP API Business Hub**

### Steps

- 1** Identify Solution Building Blocks that realize the previously identified Architecture Building Blocks (ABBs). Map the Architecture Building Blocks of the **Solution Concept** to one or more Solution Building Blocks. Sources for Solution Building Blocks are the **Baseline Solution Architecture** (perform a fit-gap-analysis) and vendor specific information sources like the **SAP Discovery Center** for SAP BTP Solution Building Blocks (SBBs).
- 2** Outline the dependencies between the identified SBBs (functional dependency in terms of request-response and/ or information flow)
- 3** Add users and Roles currently interacting with the SBBs.
- 4** Check the Solution Realization Diagram for completeness, by verifying that each ABB from the **Solution Concept** is addressed with SBBs.

### Expert Tips

There are two sources of Solution Building Blocks:  
(1) Based on the **Baseline Solution Architecture** you perform a Fit-Gap-Analysis, identifying Solution Building Blocks that are already in place and can either be completely or partly re-used in your Solution Realization.  
(2) SAP Business Technology Platform services (e.g., via **SAP Discovery Center**).

The mapping of Solution Building Blocks to Architecture Building Blocks depends on the team's experience and knowledge (experience-based mapping). Publicly available information and documentation can be consulted to map the solution building blocks. Reference architectures that solve a similar problem or address parts of your architecture work request are also valuable resources for mapping.

Use **BTP service icons** to draw the diagram.

# Example Solution Realization Diagram

