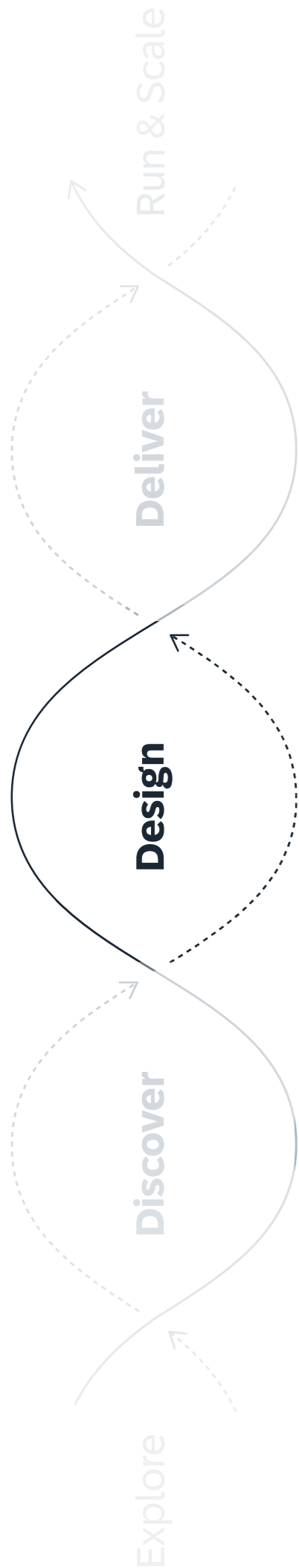# Visualize the Software Distribution

Show how architecture and solution building blocks are distributed across the IT infrastructure.

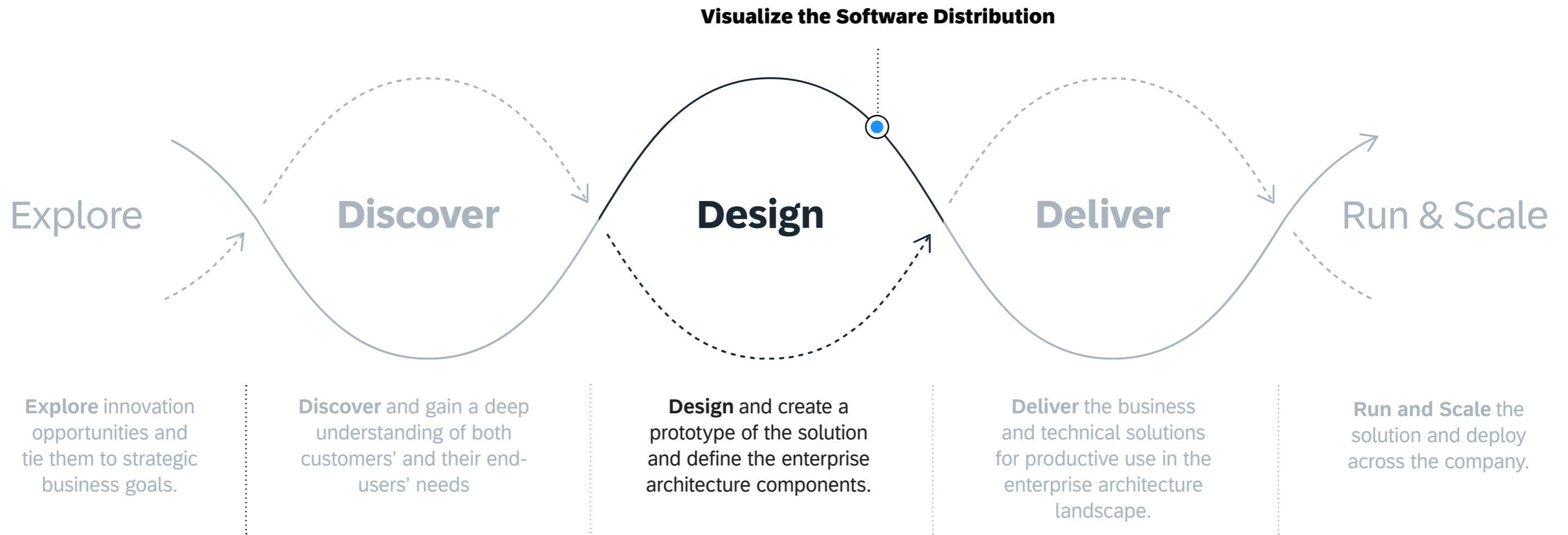# Why To
Visualize the Software Distribution

The Software Distribution Diagram shows how the aspired solution is structured and how the solution building blocks or the architecture building blocks are distributed across the IT infrastructure.

The purpose of the Software Distribution Diagram is to enable a view of how the aspired solution is deployed and hosted.

When To
Visualize the Software Distribution

The Software Distribution Diagram is created during the Design phase after the
Conceptual Data Diagram.

Visualize the Software Distribution

Explore   **Discover**   **Design**   **Deliver**   Run & Scale

Explore innovation opportunities and tie them to strategic business goals.

Discover and gain a deep understanding of both customers' and their end-users' needs

Design and create a prototype of the solution and define the enterprise architecture components.

Deliver the business and technical solutions for productive use in the enterprise architecture landscape.

Run and Scale the solution and deploy across the company.

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

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How To
Visualize the Software Distribution

Duration
30 - 60 Minutes

Participation
1 - 3 People

Roles
Architects

Use Input From
- **Describe the Baseline Solution Architecture**
- **Generate a Solution Concept Diagram**
- **Craft a Solution Realization Diagram**

Steps

1 Identify relevant hosting and deployment environments for the building blocks of the architecture. A classification between cloud and on-premise might be sufficient.

2 Map the building blocks of the architecture to the identified hosting and deployment environments.

3 Visualize the request-response or information flow relationships between the building blocks. This helps in identifying potential latency issues and network requirements.

Expert Tips

With corporate IT infrastructure often extending beyond the confines of a traditional data center, the purpose of the Software Distribution Diagram is to indicate the "landing zones" where the various architecture building blocks are running.

Given that today's IT infrastructures are typically hybrid, you can classify landing zones generally as either on-premises or cloud.
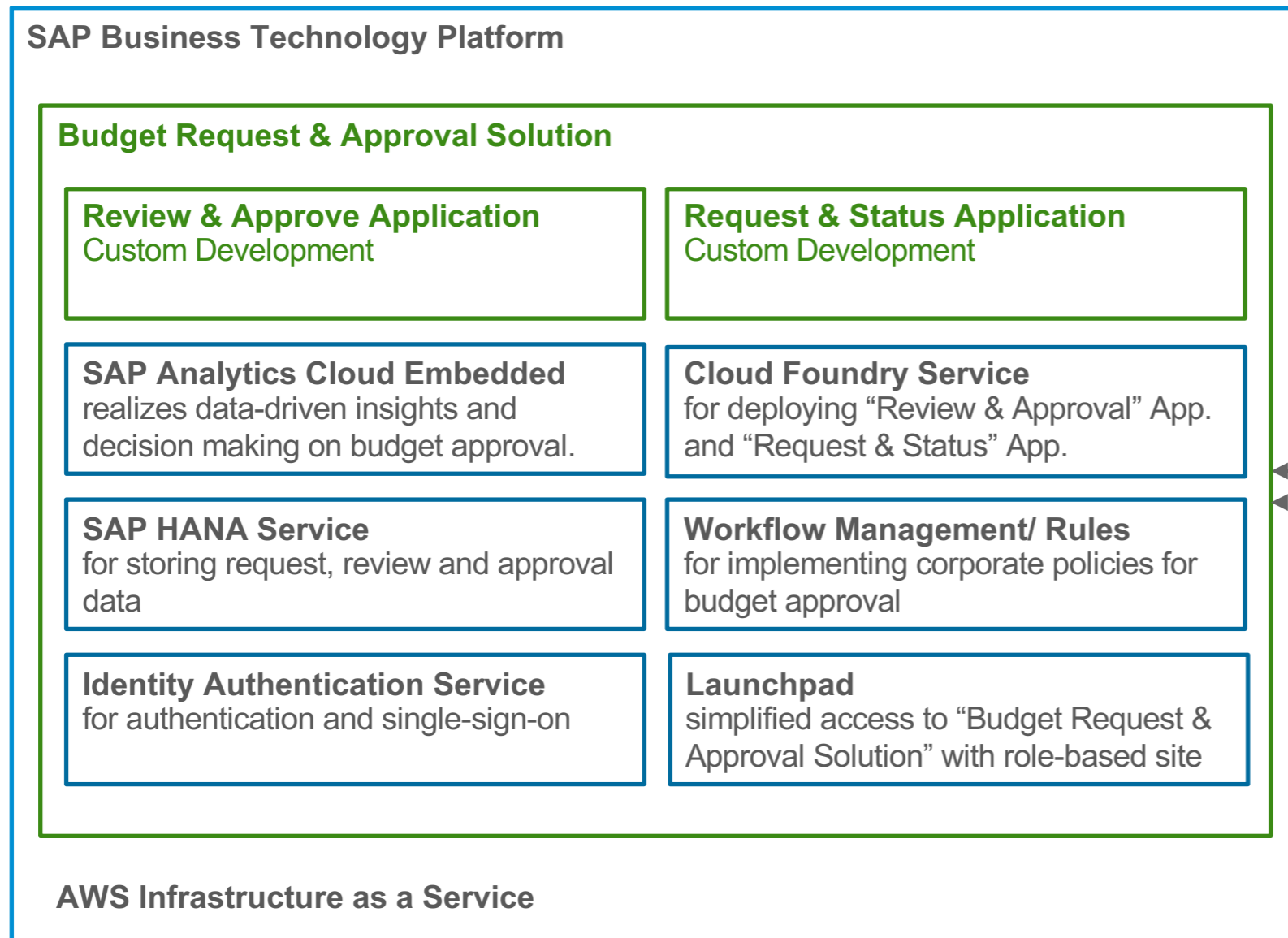The on-premises landing zone can be further categorized into specific areas, such as data centers, shop floors, or stores. Similarly, the cloud landing zone can be divided into categories like IaaS providers or SaaS providers.

To create the Software Distribution Diagram, you need the list of building blocks making up your solution. Consult the **Solution Concept Diagram** to get the list of architecture building blocks and the **Solution Realization Diagram**, to get the list of solution building blocks.
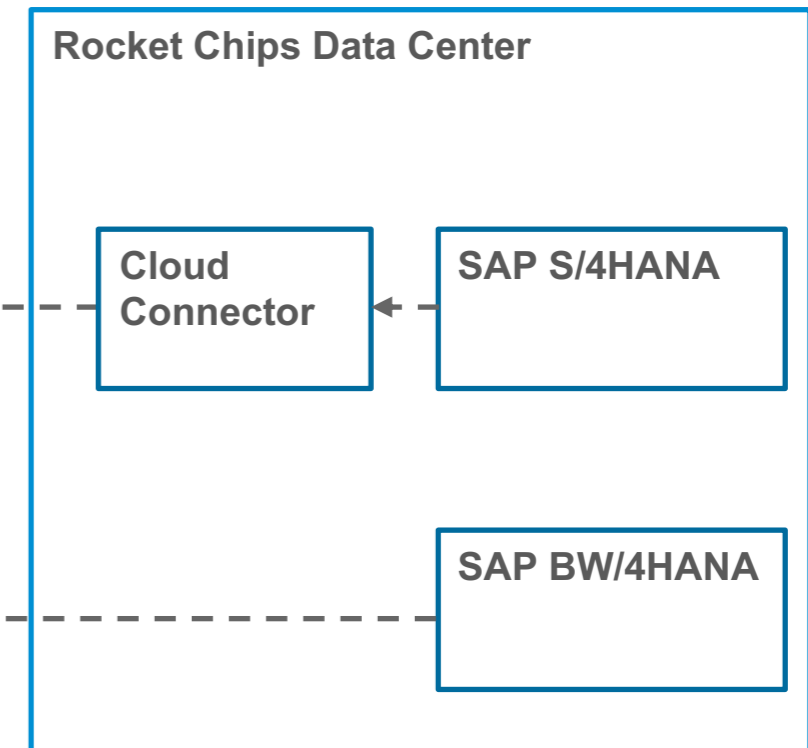
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ARCHITECTURE THINKING MINDSET / DESIGN PHASE / VALIDATE

Example
Software Distribution Diagram

Public Cloud

SAP Business Technology Platform

Budget Request & Approval Solution

Review & Approve Application
Custom Development

Request & Status Application
Custom Development

SAP Analytics Cloud Embedded
realizes data-driven insights and
decision making on budget approval.

Cloud Foundry Service
for deploying "Review & Approval" App.
and "Request & Status" App.

SAP HANA Service
for storing request, review and approval
data

Workflow Management/ Rules
for implementing corporate policies for
budget approval

Identity Authentication Service
for authentication and single-sign-on

Launchpad
simplified access to "Budget Request &
Approval Solution" with role-based site

AWS Infrastructure as a Service

On-Premise

Rocket Chips Data Center

Cloud Connector

SAP S/4HANA

SAP BW/4HANA

Legend:

Request response:

Information flow from source to target:

Custom development

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