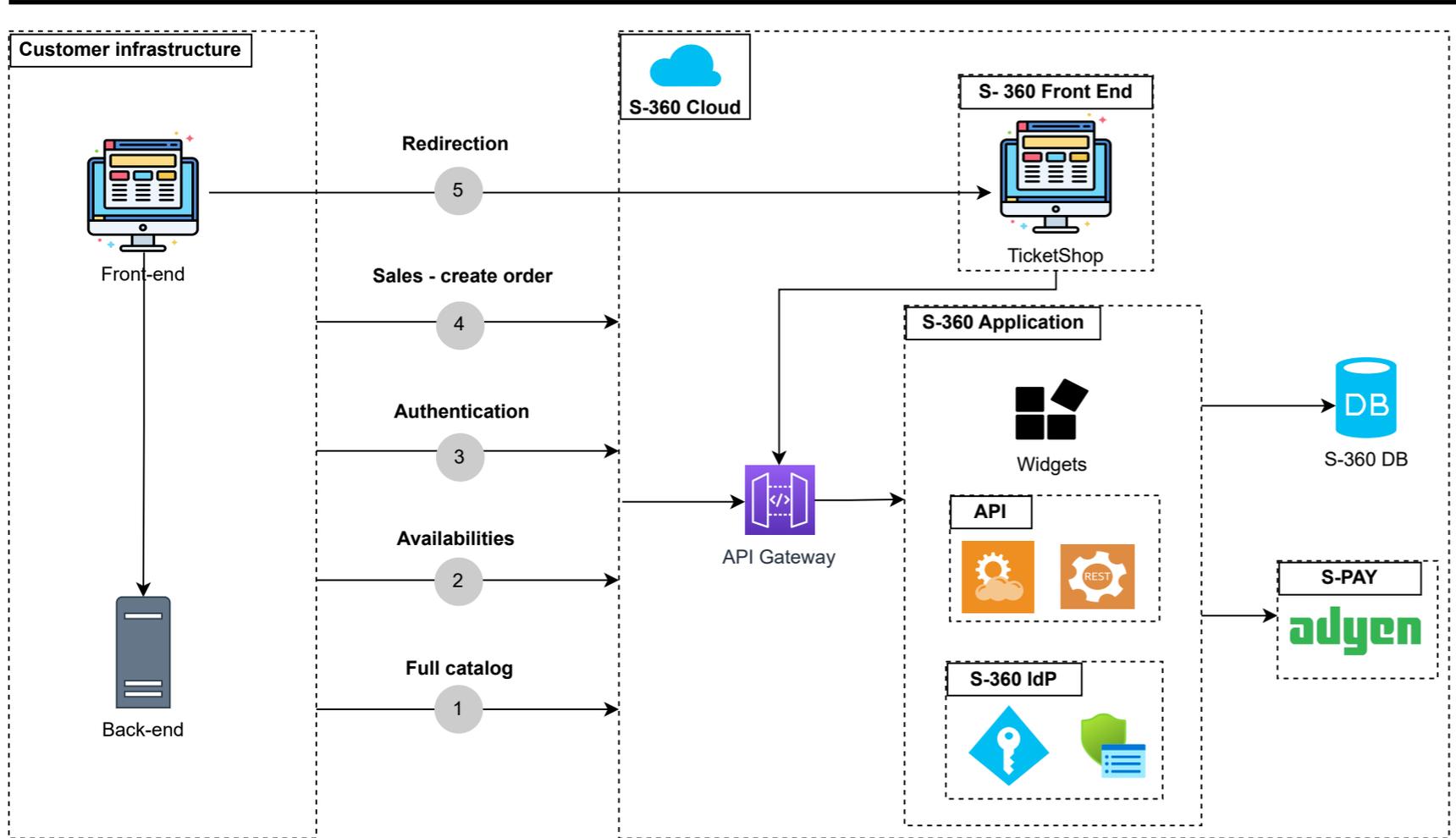# Reference Architecture diagram for website partial integration

The Reference Architecture diagram illustrates how the SecuTix platform facilitates catalog integration, enabling seamless integration.

With this approach, you can utilize our APIs to create a unique ticketing experience up until the payment step. At that point, you can seamlessly redirect users to our standard ticketshop to complete the payment process. This architecture offers the flexibility to design a tailored ticketshop while leveraging the reliability and security of our default payment system.

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Secutix Architecture Reference

1 **Full Catalog** : S-360 Catalog API, allows you to retrieve the full catalog. This includes detailed product descriptions, such as names, dates, tariffs, prices, and sales periods. Given that using the catalog API can be expensive and is subject to rate limits, it is crucial to implement an effective caching strategy and then just call **getLastSetupUpdate** (Catalog). For further information, please refer to the catalog backend API page.

2 **Availabilities** : S-360 offers an API tailored for retrieving the most up-to-date catalog & availability updates. These availabilities are categorized using color codes. The availability service offers real-time data access through four key methods:

- **getProductAvailability**,
- **getEventAvailability**,
- **getPerformanceAvailability,**
- **getSeatsAvailability**.

Typically, these are best used hourly, with a maximum frequency of 1 call per minute, particularly leveraging **getUpdatedAvailabilities** for monitoring product changes. To maintain data freshness while respecting API limits, implementing caller-side caching is recommended. You can find more information on the availabilities API pages.

3 **Authentication** : Numerous APIs are offered by the S-360 application to streamline authentication. While S-360 can act as an Identity Provider (IdP), activation of this function requires specific configurations. For insights into Single Sign-On (SSO) processes, consult the "S-360 as IdP" page.
Additionally, integration with third-party IdPs as a Service Provider (SP) is smoothly facilitated, guided by a well-structured architecture reference.

4 **Sales - create order** : S-360's application streamlines order management through a variety of APIs. The web services facilitate the creation and closure of orders using different transverse APIs.To initiate a sales workflow, start by checking product availability with the Availability API (done in Step 2). Retrieve the payment method ID through the **GetPosConfig** API that will be used in next steps. then the creation is done using the **ExternalOrderFacade** web service.
Explore the sales pages for more details and practical examples.

5 **Redirection** : Once the order is created, the user is then redirected to the ticket shop using this link (/api/1/redirect/cart), it will give access to the cart on S-360 ticketshop, if the contact exists, an authentication will be required, or a creation of a new contact is then needed.
For more information please check S-360 redirection page.

All the API definitions and specifications, can be found in the Secutix platform website.