## API-Integration & Data-Migration----ShopifyX

```
API Integration:
import { createClient } from "@sanity/client";
import axios from "axios";
import dotenv from "dotenv";
import { fileURLToPath } from "url";
import path from "path";
 Load environment variables from .env.local
const __filename = fileURLToPath(import.meta.url);
const __dirname = path.dirname(__filename);
dotenv.config({ path: path.resolve(__dirname, "../.env.local") });
    Create Sanity client
const client = createClient({
 projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
 dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
 useCdn: false,
token: process.env.SANITY_API_TOKEN,
 apiVersion: "2021-08-31", Match with your API version
});
  Upload image to Sanity
async function uploadImageToSanity(imageUrl) {
 try {
 console.log(`Uploading image: ${imageUrl}`);
 const response = await axios.get(imageUrl, { responseType: "arraybuffer" });
 const buffer = Buffer.from(response.data);
  const asset = await client.assets.upload("image", buffer, {
  filename: imageUrl.split("/").pop(),
 });
  console.log(`Image uploaded successfully: ${asset._id}`);
 return asset._id;
 } catch (error) {
  console.error("Failed to upload image:", imageUrl, error);
 return null;
} Import Data into Sanity
async function importData() {
try {
                                                 API Endpoint
 console.log("Fetching products from API...");
  const response = await axios.get("https://fakestoreapi.com/products");
  const products = response.data;
  console.log(`Fetched ${products.length} products`);
  for (const product of products) {
  console.log(`Processing product: ${product.title}`);
  Upload image and get reference
  let imageRef = null;
  if (product.image) {
   imageRef = await uploadImageToSanity(product.image);
   const sanityProduct = {
    _type: "product",
   name: product.title,
   slug: {
     _type: "slug",
    current: product.title.toLowerCase().replace(/\s+/g, "-"),
   },
   description: product.description,
   price: product.price,
    discount: 0,
    categories: [],
    stock: Math.floor(Math.random() * 50) + 1,
    label: product.category || "",
    status: "new",
   image: imageRef
    ?{
       _type: "image",
      asset: {
        _type: "reference",
       _ref: imageRef,
      },
     }
    : undefined,
  Check if the category exists in Sanity
  if (product.category) {
    const existingCategory = await client.fetch(
     `*[_type == "category" && title == $title][0]._id`,
    { title: product.category }
   if (existingCategory) {
    sanityProduct.categories.push({
      _type: "reference",
     _ref: existingCategory,
    });
    console.log(product.category);
  }
  console.log("Uploading product to Sanity:", sanityProduct.name);
   const result = await client.create(sanityProduct);
  console.log(`Product uploaded successfully: ${result._id}`);
  }
  console.log("Data import completed successfully!");
} catch (error) {
  console.error("Error importing data:", error);
```

## import Data successfully!

importData();

## • \$ npm run import-data

```
> my-new-project@0.1.0 import-data
 > node scripts/importSanityData.mjs
 Fetching products from API...
 Fetched 20 products
 Processing product: Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops
 Uploading image: https://fakestoreapi.com/img/81fPKd-2AYL._AC_SL1500_.jpg
 Image uploaded successfully: image-a3adcaff608bad2cf518f2a9d26a0c6d123c75a7-1049x1500-jpg
 men's clothing
 Uploading product to Sanity: Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops
 Product uploaded successfully: zp9zM7hmqGO16zXoShBufe
 Processing product: Mens Casual Premium Slim Fit T-Shirts
 Uploading image: https://fakestoreapi.com/img/71-3HjGNDUL._AC_SY879._SX._UX._SY._UY_.jpg
 Image uploaded successfully: image-e1d220cc41c863e93dff756780aefc931799ac1a-663x879-jpg
 men's clothing
 Uploading product to Sanity: Mens Casual Premium Slim Fit T-Shirts
 Product uploaded successfully: 5u5qSfeSP8Fhinu4S3siKh
 Processing product: Mens Cotton Jacket
 Uploading image: https://fakestoreapi.com/img/71li-ujtlUL. AC UX679 .jpg
 Image uploaded successfully: image-5519a5fa0fee4d3f36f7c3e3b9e4c81e501c8c61-679x755-jpg
 men's clothing
 Uploading product to Sanity: Mens Cotton Jacket
 Product uploaded successfully: 5u5qSfeSP8Fhinu4S3siSg
 Processing product: Mens Casual Slim Fit
 Uploading image: https://fakestoreapi.com/img/71YXzeOuslL._AC_UY879_.jpg
 Image uploaded successfully: image-40305f45f0abc12b5a0b24c39fef6f3f0baf4830-692x879-jpg
 men's clothing
 Uploading product to Sanity: Mens Casual Slim Fit
 Product uploaded successfully: 5u5qSfeSP8Fhinu4S3siaf
  Processing product: John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet
 Uploading image: https://fakestoreapi.com/img/71pWzhdJNwL. AC UL640 OL65 ML3 .ipg
Data Comes on Frontend:
```







