

# Architecting Large Scale Applications



**Zachary Bennett**

Lead Software Developer

@z\_bennett\_ | <https://www.linkedin.com/in/zbennett10/>



# Important Concepts



**Micro-frontends**

**Module federation**

**Monorepo integration (Nx)**



# Micro-frontends

**Billing**

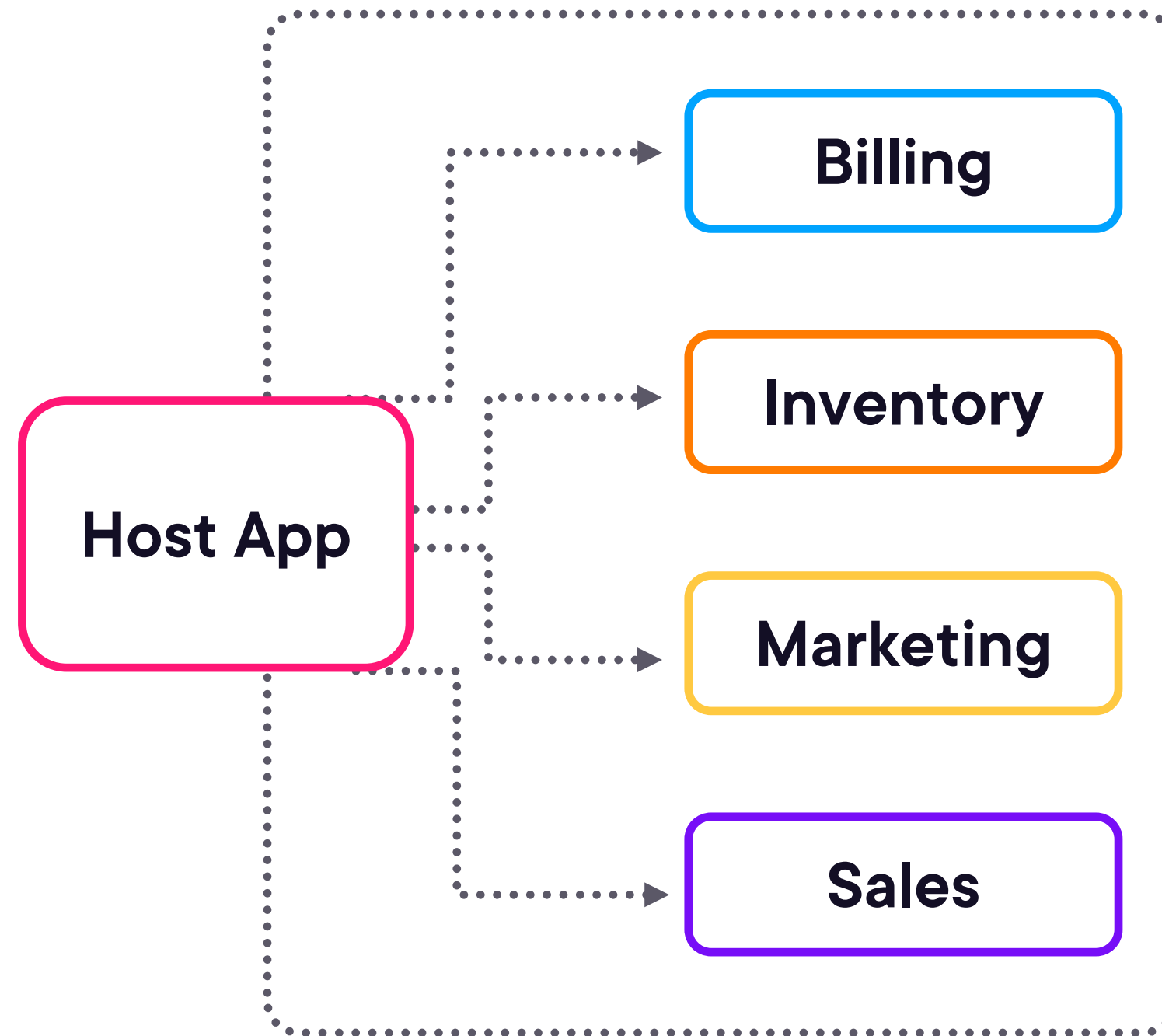
**Inventory**

**Marketing**

**Sales**



# Micro-frontends



**Angular micro-frontends  
can help simplify large  
applications!**



# Module Federation

## Webpack Config for Module Federation

```
const ModuleFederationPlugin = require('webpack').container.ModuleFederationPlugin;

module.exports = {
  output: {
    uniqueName: 'inventoryApp',
    publicPath: 'auto',
  },
  plugins: [
    new ModuleFederationPlugin({
      name: 'inventoryApp',
      filename: 'remoteEntry.js',
      exposes: {
        './InventoryAppModule': './src/app/inventory-app/inventory-app.module.ts',
      },
      shared: ['@angular/core', '@angular/common', '@angular/router'],
    }),
  ],
};
```



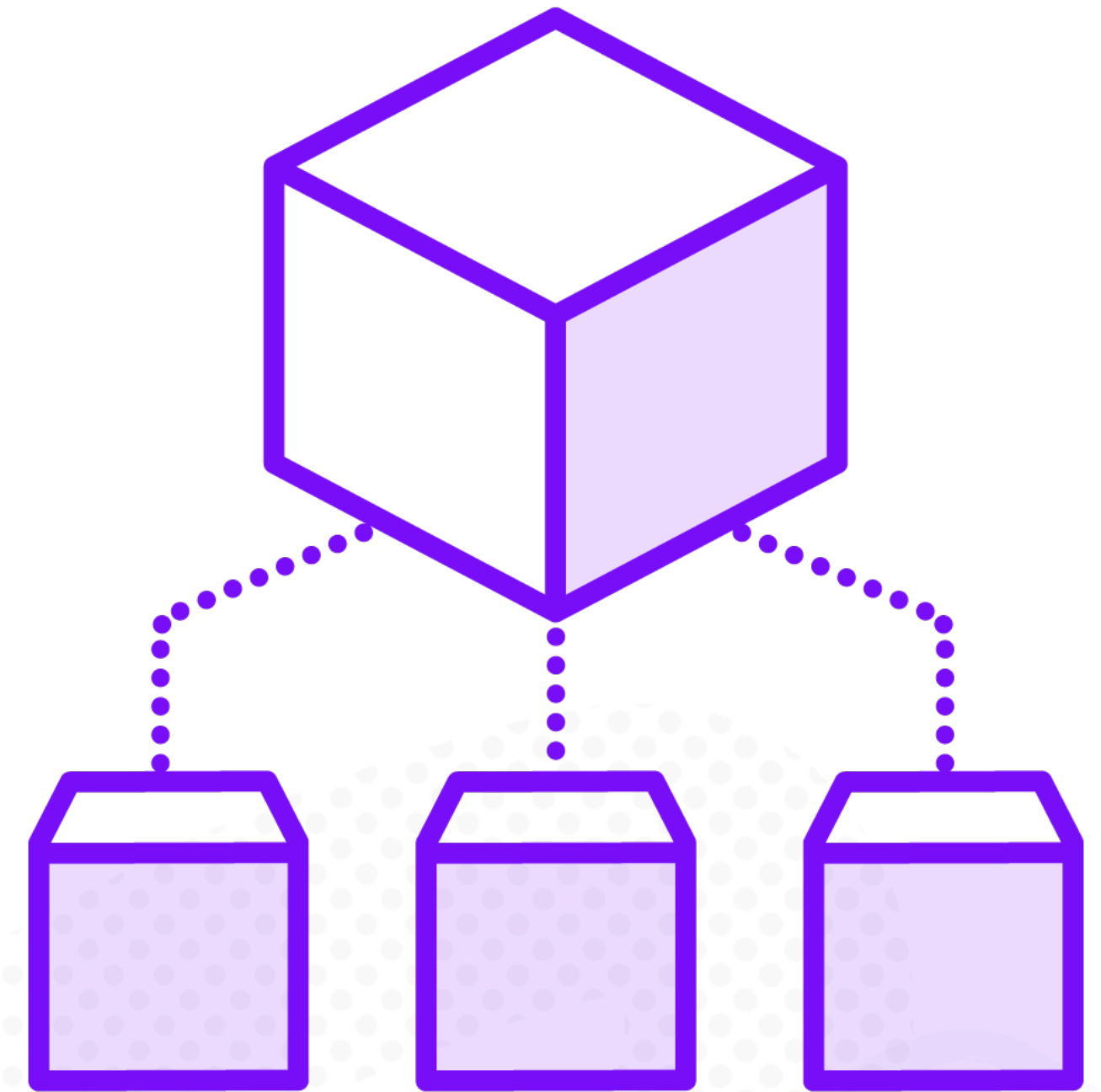
# Monorepo Integration for Large Scale Angular Apps

Facilitate large-scale refactoring

Cross-team code sharing

Easier continuous integration/deployment

Works well with micro-frontend architecture



**These three concepts work  
together when architecting  
large scale Angular apps!**

