1. **Connectivity:**
   - The consumer applications will send requests to the Azure API Management Gateway.
   - The APIM Gateway will then route these requests to the respective backend services (like the Web API, Actuarial Web API, Litigation DotNet API, etc.).
2. **Workflow Integration:**
   - **API Clients → Azure API Management Gateway → Backend Services**

Updated Workflow with Azure APIM Integration

Here's how you can update your workflow diagram to include Azure API Management:

1. **Developer Workflow:**
   - **Push code to Bitbucket**
   - **Code Vulnerability Check (Snyk CI)**
   - **Code Quality Check (SonarCloud CI)**
   - **CI Pipelines:**
     - Build Docker image of Web App and APIs using Dockerfile
     - Push image to Azure Container Registry (ACR)
     - Create DACPAC file and push it to Azure Artifact
2. **Deployment Workflow:**
   - **Pull Docker Image from ACR**
   - **Continuous Deployment:**
     - Deploy the Docker image to AKS, Azure App Service, or VM
     - Deploy the DACPAC file over SQL server
3. **Runtime Workflow:**
   - **Consumer Applications (e.g., Accounting Web App, Actuarial Web API)**
     - Send requests to **Azure API Management Gateway**
       - **Azure API Management Gateway** handles:
         - Rate limiting
         - Security
         - Monitoring
     - Routes the request to the appropriate backend service
       - Backend Services:
         - Accounting API
         - Administration API
         - Actuarial WebAPI
         - Litigation DotNet API
         - Claims API
         - Premium Audit API
         - Underwriting API
   - **Backend Databases:**
     - SQL Server (Accounting & Reporting DB, Actuarial DB, Admin DB, Claims DB, Litigation DB, Premium Audit DB, Underwriting DB)

Diagram Illustration:

To visually represent this integration:

- **Consumer Applications**
  - (Accounting Web App, Actuarial Web API, etc.)
  - |
  - | (Requests)
  - |
- **Azure API Management Gateway**
  - |
  - | (Routes requests to appropriate services)
  - |
- **Backend Services**
  - (Accounting API, Administration API, Actuarial Web API, etc.)
  - |
  - | (Database interactions)
  - |
- **SQL Server Databases**

This integration ensures that all API requests are centrally managed, monitored, and secured before reaching the backend services, providing a robust API management solution