**Subject:** Required Details for CI/CD Pipeline Implementation for Coherent Spark

**Dear [Manager's Name],**

I am sharing the list of required details and prerequisites needed to implement the CI/CD pipeline for Coherent Spark service export and deployment.

**1. Coherent Spark Requirements**

**a. API Authentication**

* **Bearer Token:** Valid token for authenticating Export and Import API calls.
* **API Key (Alternative):**
  + x-synthetic-key: API Key value.
  + x-tenant-name: Associated tenant name.
* **Required Permissions:**
  + Spark.Exports.json
  + Spark.AllEncompassingProxy.json

**b. Tenant and Environment Details**

* **Tenant Name:** Spark tenant identifier.
* **Environment:** Deployment environment (e.g., prod, staging).
* **Base API URL:** https://excel.{environment}.coherent.global/{tenant}/api/v4

**c. Services and Folders for Export**

* **Folders:** List of folders containing the services.
* **Services:** List of services in folder/service format (e.g., myfolder/myservice).
* **Service IDs (Optional):** Unique service identifiers.
* **Version Filter:** Specify service versions to export (all or latest).
* **File Filter:** Define files to include (migrate or onpremises).
* **WebAssembly Compilation:** Confirm services are compiled.

**d. Export Package Configuration**

* **Package Size Limit:** Ensure export does not exceed 200 MB.
* **Export File Name (Optional):** Custom ZIP file name.
* **Correlation ID (Optional):** Identifier for tracking.
* **Source System Tag (Optional):** Tag for identifying the source system.

**2. Azure DevOps Requirements**

**a. Azure DevOps Setup**

* **Active Azure DevOps Project:** For pipeline configuration.
* **Service Connection (Optional):** If deploying to Azure resources, set up a Service Principal.

**b. Pipeline Configuration**

* **Variable Group:** Secure storage for:
  + ExportApiToken
  + ImportApiToken
  + TenantName
  + Environment
* **Pipeline Agent:** Use Microsoft-hosted or self-hosted agents.

**c. CI/CD Workflow**

1. **CI Pipeline:**
   * Validate inputs.
   * Trigger Export API.
   * Monitor status and download the ZIP.
   * Publish as an artifact.
2. **CD Pipeline:**
   * Download artifact.
   * Deploy using Import API.
   * Validate deployment.

**3. Testing and Access**

* **API Access:** Test Export and Import API calls.
* **Error Handling:** Prepare for failed exports.
* **Monitoring:** Use Azure DevOps logs for tracking.

**4. Final Checklist**

| **Requirement** | **Details Needed** |
| --- | --- |
| **Authentication** | Bearer Token or API Key with permissions. |
| **Tenant Name** | Spark tenant name. |
| **Environment** | Deployment environment. |
| **API Endpoints** | Export and Import API URLs. |
| **Folders and Services** | List of folders and services for export. |
| **Service Versions** | Export all versions or latest. |
| **File Filters** | Define files to include. |
| **Package Size Limit** | Ensure export is under 200 MB. |
| **Variable Group** | Azure DevOps variables for tokens and configuration. |
| **Pipeline Agent** | Microsoft-hosted or self-hosted agent. |
| **Service Connection** | Azure Service Principal if needed. |
| **Testing Access** | API access validation. |

**Action Items:**

1. Provide API tokens or keys with proper permissions.
2. Confirm tenant and environment names.
3. Share the list of folders and services for export.