**ArcGIS Enterprise Export/Import Guide Using Admin API**

This guide provides step-by-step instructions for migrating ArcGIS Enterprise data and configurations by exporting and importing directly through the Admin API for ArcGIS Portal, Server, and Data Store. This method is useful for parallel upgrades where WebGIS DR is not applicable.

**Overview**

This guide covers the following:

1. **Exporting and Importing**:
   * Portal
   * Server
   * Data Store
2. **Considerations for Version Compatibility**
3. **Order of Operations**

**Note**: This method is best suited for migrations within the same version of ArcGIS Enterprise (e.g., 10.8.1 to 10.8.1). Cross-version migrations (e.g., 10.8.1 to 11.1) require upgrading after import.

**Exporting and Importing Components**

**Step 1: Exporting Components**

1. **Export Portal**
   * Use the **Export Site** operation on the Portal Admin API.
   * Endpoint: https://<portal\_url>/portaladmin/exportSite
   * Parameters:
     + f: The response format (e.g., JSON).
     + outputFile: Path for the export file (.zip).
   * Run the export command in the Portal Admin API. Save the generated file.
2. **Export Server**
   * Use the **Export Site** operation on the Server Admin API.
   * Endpoint: https://<server\_url>/server/admin/exportSite
   * Parameters:
     + f: The response format (e.g., JSON).
     + outputFile: Path for the export file (.zip).
   * Run the export command in the Server Admin API and save the output file.
3. **Export Data Store**
   * Use the **datastoreexport** utility for each data store (e.g., relational, tile cache).
   * Example command:

<DataStore\_install\_location>/datastoretools/datastoreexport --store relational --output <path/to/backup>

* + Specify the data store type (relational, tile cache) and save the generated files.

**Step 2: Importing Components**

**Note**: Import the components in the following order: Data Store, Server, then Portal.

1. **Import Data Store**
   * Use the **restoredatastore** utility for each data store type.
   * Example command:

<DataStore\_install\_location>/datastoretools/restoredatastore --store relational --input <path/to/backup>

* + Ensure data store content is restored before importing server or portal data.

1. **Import Server**
   * Use the **Import Site** operation on the Server Admin API.
   * Endpoint: https://<server\_url>/server/admin/importSite
   * Parameters:
     + f: The response format (e.g., JSON).
     + inputFile: Path to the previously exported file.
   * Import server settings and configurations.
2. **Import Portal**
   * Use the **Import Site** operation on the Portal Admin API.
   * Endpoint: https://<portal\_url>/portaladmin/importSite
   * Parameters:
     + f: The response format (e.g., JSON).
     + inputFile: Path to the previously exported file.
   * Complete the portal import, ensuring all settings and content are restored.

**Important Considerations**

1. **Version Compatibility**:
   * This export/import approach is recommended for migrations within the same version of ArcGIS Enterprise (e.g., 10.8.1 to 10.8.1).
   * For version upgrades, consider restoring data on the same version, then upgrading to the target version (e.g., 11.1).
2. **Order of Operations**:
   * **Order**: Data Store → Server → Portal.
   * This order ensures dependencies are maintained between components.
3. **File Size and Timeout**:
   * File size depends on the amount of content. Large exports may take longer, and there may be browser timeouts when running imports/exports through the API.
   * Use the command line for large Data Store backups to avoid browser timeouts.
4. **URL and Environment Setup**:
   * For parallel environments, the URL in the export may differ. Modify host files or DNS settings if necessary for testing.
   * If the environment URL changes, ensure that configurations are updated accordingly.
5. **FedRAMP Compliance**:
   * Follow compliance guidelines when moving data between environments. Ensure the environment settings match security requirements before data migration.

**Frequently Asked Questions**

1. **Can I use export/import for different ArcGIS Enterprise versions?**  
   No, this method is only supported within the same Enterprise version. For version upgrades, perform the import first, then upgrade to the target version.
2. **Is there a size limit for export files?**  
   No specific limit exists, but large files may impact performance. Using command-line tools can help manage large exports.
3. **How long does the export/import take?**  
   Duration depends on the data volume. Test in a development environment to estimate the time required for production.
4. **What if I only import one component (e.g., Portal) without others?**  
   Partial imports (e.g., Portal without Data Store) can cause dependencies to break. Import all components together, following the correct order.

**Additional Resources**

* [ArcGIS Server Admin API: Export Site](https://developers.arcgis.com/rest/enterprise-administration/server/exportsite.htm)
* [ArcGIS Portal Admin API: Export Site](https://developers.arcgis.com/rest/enterprise-administration/portal/export-site.htm)
* Data Store Utility Reference

This guide provides an effective alternative for migrating ArcGIS Enterprise data using the Admin API, streamlining the export and import processes for parallel environments without WebGIS DR.