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Overview of Foundry Assets for Data Hub

Mapping of EDAV **Databricks** asssets to **1CDP** Foundry

Code App User Interfaces

1CDP Code App Options

- Code Repositories "Advanced pipelines"
 - Suggested: For Data Hub Engineering, not analyst use, with Pipeline Builder and Data Lineage
 - o "Data Pipeline Management"
 - Governance: "Prioritizes change traceability and governance to ensure that critical pipelines remain secure and robust; advanced review and approval workflows and complete changelogs."
 - Git backed
 - Spark with advanced compute configuration
 - Ontology Support
 - o Python, SQL, Java, Mesa
 - Console Support with Debug Mode
 - Visualization Support
 - Supports Foundry data management libraries and publishing custom Python libraries
 - Security
 - Advanced Workflow Review
 - Unit Testing
 - o Define, Maintain, and Publish Custom Python Libraries
- Code Workspaces "Exploratory Analysis"
 - Suggested: For Analyst Use on "Gold" Medallion Data, or Transform Silver to Gold Medallion
 - "Data Exploration Management"
 - **Flexibility**: "Prioritizes rapid and flexible iteration with full branching support and automatic Git versioning"
 - Kubernetes only, no Spark
 - No Ontology Support
 - Python, R (no SQL)
 - RStudio or Jupyter Notebooks
 - o Consume pip, CRAN, conda and Code Repository libraries
 - Git backed
 - Interactive EDA
- Code Workbook "Advanced Analysis"
 - Suggested: For Final Analysis, Ad Hoc EDA, SQL
 - "Rapid Changes": "Prioritizes rapid iteration and collaboration with a lightweight branching workflow; does not require CI checks or unit testing"
 - Spark (warm)
 - Ontology Support
 - o SQL, Python, R
 - Visualization
 - o not git backed, lightweight branching
 - Interactive EDA

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1CDP Artifacts (Package Repository and Management)

- Curated Package Management
 - o pypi,maven,conda,docker,npm
 - o no R/CRAN
 - o custom packages
 - Multiple artifact storage for versioning, curation
- Upload via API with timed Token

```
export TOKEN=<TOKEN>
export PACKAGE=package-1.0.0-py36_0.tar.bz2 # replace with your package's local
path
export PLATFORM="linux-64" # replace with the package platform (e.g. noarch,
linux-64, osx-64)
curl -H "Authorization: Bearer $TOKEN" -H "Content-Type: application/octet-stream"
--data-binary "@$PACKAGE" -XPUT
"https://lcdp.cdc.gov/artifacts/api/repositories/ri.artifacts.main.repository.cfec
472f-841a-463c-aeba-48fc5b187c32/contents/release/conda/$PLATFORM/$PACKAGE"
```