

# Alteryx Designer on Azure Virtual Desktop

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## Overview

This document outlines a deployment framework for **Alteryx Designer Desktop** on **Azure Virtual Desktop**. While it provides benefits like traditional virtual desktop infrastructure and virtual machine (VM) deployments, Azure Virtual Desktop offers a purpose-built, cloud-native solution for centrally deploying and managing desktop applications.

### What is Alteryx Designer

Alteryx Designer is a visual data analytics platform that enables users to prepare, blend, and analyze data through a drag-and-drop workflow interface. It provides comprehensive capabilities for data transformation, including ETL (Extract, Transform, Load) operations, predictive analytics, spatial analytics, and reporting, without requiring extensive coding knowledge. The platform connects to various data sources, from spreadsheets to databases to cloud services, and includes built-in tools for automation, documentation, and sharing of analytical workflows.

### What is Azure Virtual Desktop

Azure Virtual Desktop is Microsoft’s cloud-platform VDI solution that enables desktop and app virtualization. Users will be able to access their desktop applications through any modern browser or using the thin client Microsoft Remote Desktop. Enterprises can deploy single or multi-user environments, integrate into Microsoft 365 Apps, and much more.

### What are the Benefits

- Centrally managed by IT.
- Governed access to data sources and reporting platforms.

- Easier to manage and deploy Alteryx Designer updates and patches.
- License key management controls.
- Single Sign-On (SSO) integrated and in your Azure Virtual Private Cloud (VPC) with inherited security.
- Reduce deployment cost and egress cost to Azure data sources.

## Intended Audience

This implementation guide is designed for enterprise IT professionals responsible for Azure Virtual Desktop deployment and management, including:

- Cloud Infrastructure Architects
- Desktop Administration Teams
- System Administrators
- Azure Platform Administrators

## Scope Definition

Setting up Azure Virtual Desktop is outside the scope of Alteryx. This document does not cover any configuration details within the Azure environment. This document provides foundational implementation procedures for deploying Alteryx Designer within an Azure Virtual Desktop environment. While it establishes core configuration requirements and baseline deployment steps, it serves as an initial framework rather than a comprehensive deployment guide.

## Limitations

This guide intentionally focuses on fundamental deployment scenarios and does not address:

- Advanced security configurations.
- Enterprise-specific cloud architectures.
- Customized deployment options.
- Alteryx Server and other Alteryx product deployment through Azure Virtual Desktop.

## Objective

The primary objective of this guide is to enable a baseline Alteryx Designer deployment that organizations can further enhance according to their specific enterprise requirements, security protocols, and architectural standards.

## Support and Service Options

Alteryx has resources that may assist with this, contact your account representative for additional details.

# Alteryx Requirements

Be ready to download, install, and configure these components when following this guide.

## System Requirements

Alteryx Designer has its own [system requirements](#). The recommended minimum sizing requirements for the Azure images use the system requirements as a starting point.

- Size Name: Standard\_D4s\_v4
- Number of vCPUs: 4
- Memory: 16 GB
- Storage: 500 GB (SSD recommended)

Larger instances can be used to optimize performance. For additional sizing information go to Microsoft documentation: [Dsv4 Sizes Series](#).

**Note:** A lower storage configuration may suffice for testing environments, but 500 GB is the current Alteryx-recommended minimum. For more details go to Microsoft documentation [Storage considerations for Azure Virtual Desktop workloads](#).

## Alteryx Designer

Alteryx Designer versions 2023.2, 2024.1, 2024.2, 2025.1, and 2025.2 are tested and fully supported.

The Alteryx One App and Alteryx Designer versions 2026.1 (not yet released) are not planned to be supported.

Download the admin version of Alteryx Designer and related add-ons directly from [Alteryx License Portal](#).

- **Admin Version:** Always use the Admin version when deploying through IT-managed installation.
- **Non-Admin Version:** Applies only to the user who installed it. This is generally not recommended for enterprise deployments.

See Alteryx documentation [Admin and Non-Admin Install Guide](#) for more details.

## Microsoft Data Protection API (DPAPI)

**IMPORTANT:** Alteryx Designer uses [Microsoft Data Protection API](#) (DPAPI) to encrypt Data Connection Management (DCM) credentials.

For details on how to enable/disable DPAPI, go to Microsoft documentation: [Policy CSP - RemoteDesktop | LoadAadCredKeyFromProfile](#).

- Windows Azure VMs have DPAPI enabled by default.
- In pooled host environments, **FSLogix** must be enabled to ensure DCM connections persist properly across sessions.
- For details, refer to Microsoft's documentation on [Policy CSP - RemoteDesktop | LoadAadCredKeyFromProfile](#).

## Optional Components and Add-ons

These are optional components and add-ons covered in this guide.

## Alteryx Connector Tools

These native integration components enable direct data access to specific platforms and services like Salesforce, Amazon S3, and SharePoint. Connectors provide authenticated, optimized data transfer with platform-specific configurations and security implementations. For more information go to Alteryx documentation: [Designer | Tools | Connectors](#) or the [Alteryx Marketplace](#).

## Alteryx Intelligence Suite

This advanced analytics extension package adds computer vision, OCR, natural language processing, and deep learning capabilities to Designer. It includes pre-built models, custom Python environments, and automated machine learning functionality for complex analytical operations. For more information go to [Alteryx Intelligence Suite](#).

## Alteryx Predictive Tools

These built-in statistical and machine learning tools integrate R functionality directly into Alteryx workflows. They provide pre-configured algorithms for predictive modeling, statistical analysis, and data science operations without requiring direct coding. For more information go to Alteryx documentation: [Designer | Tools | Predictive Analytics](#).

## Alteryx Data Packages

These curated datasets and demographic information can be integrated directly into Alteryx workflows. Data packages contain TomTom street data, census information, and business listings with automated update mechanisms and standardized schemas. For more information go to [Location & Business Datasets](#).

## ODBC Drivers

These standardized database connectivity components enable Alteryx to communicate with various database systems through the Open Database Connectivity protocol. They provide optimized data access with support for connection pooling, SSL encryption, and native database authentication methods. For more information go to Alteryx documentation: [ODBC and OLEDB Database Connections](#).

## Azure Virtual Desktop

The Azure requirements should be completed before starting this guide.

Go to Microsoft documentation for [Prerequisites for Azure Virtual Desktop](#).

- Azure Global Administrator or equivalent role for initial setup
- Azure Virtual Desktop environment
- Local administrative rights on virtual machines
- Access to Azure subscription with sufficient resource quota
- Golden image in Azure Virtual Desktop
- FSLogix for user profile management within pooled hosts

## Personal vs. Pooled Host Pools

- **Personal Host Pools:** Each user has a dedicated VM. User profiles will be stored on the virtual disk.
- **Pooled Host Pools:** Multiple users share each session host.
  - **FSLogix** is strongly recommended for pooled host pools to ensure proper profile persistence, particularly for Data Connection Manager (DCM) settings.

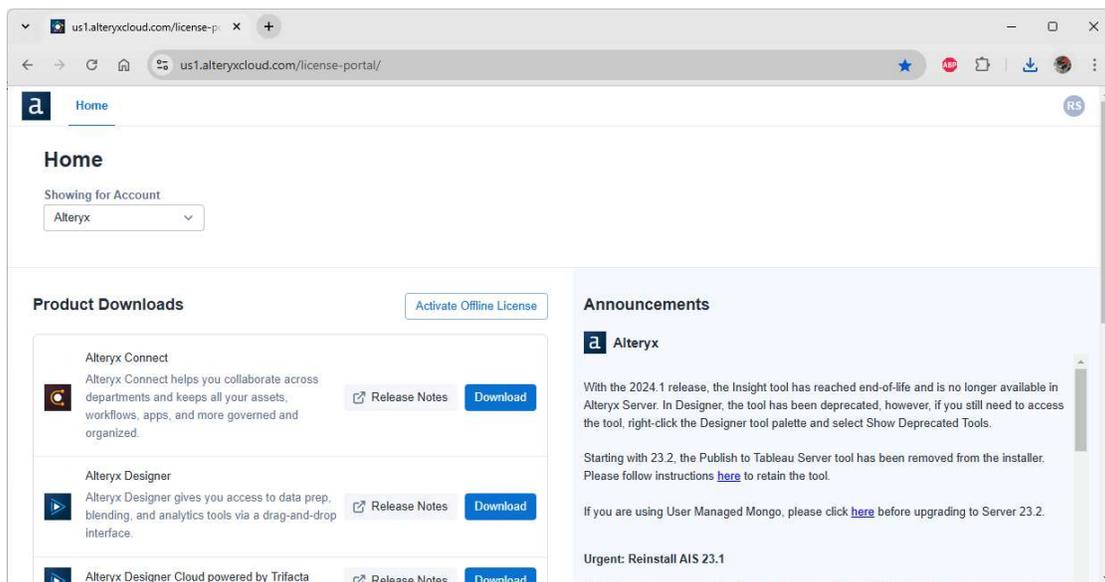
For more information, see [User Profile Management for Azure Virtual Desktop with FSLogix profile containers](#).

## Updating the Golden Image

**Note:** Creating the golden image in Azure Virtual Desktop is outside the scope of this guide. To create the golden image read Microsoft documentation [Create a golden image in Azure](#).

Follow these instructions to update the Azure Virtual Desktop golden image with Alteryx Designer and related products.

In this section, you will be installing Alteryx Designer and any add-on Alteryx Products, Alteryx tools, Alteryx Connectors, ODBC drivers, and any other applications that should be available to end-users of the Azure Virtual Desktop environment.



Alteryx License Portal

## Downloading and Installing Alteryx Products, Tools, and Connectors

Follow these instructions to set up Alteryx Designer and related software. You can also refer to Alteryx documentation at [Download and Install a Product](#).

## Alteryx Designer

- 1) Sign in to the [Alteryx Licensing and Downloads Portal](#) to download the Alteryx products that will be made available to your users through Azure Virtual Desktop.
  - a. **IMPORTANT:** Please be sure to download the admin version of Alteryx Designer.
  - b. For Predictive Tools and Intelligence Suite installations:
    - i. Download the admin versions.
    - ii. Ensure these versions match your Alteryx Designer installation version.
  - c. If you have licensed Alteryx Data Packages and plan to make them available to Azure users, choose which licensed Data Packages to download.
- 2) Install Alteryx Designer
  - a. Run the Alteryx Designer Installer with admin rights. (Right-click and select **Run as Administrator**.)
  - b. On the Welcome screen, select **Next**.
  - c. Check the **I accept the License Agreement** checkbox and select **Next**.
  - d. Confirm the installation folder and select **Next**.
  - e. On the ready to install screen, select **Install**.
  - f. On the completion screen, deselect the Run Alteryx Now checkbox and select **Finish**.
  - g. After the installation, it is recommended that you permanently delete the Alteryx Designer installer to save on storage costs.
  - h. A command line installation is available. See Alteryx documentation [Use Command-Line Options](#).

## Alteryx Predictive Tools and Intelligence Suite

- 3) (Optional) Install the Alteryx Predictive Tools
  - a. Run the Alteryx Predictive Tools installer (RInstaller\_XXXX.X.X.XX) with admin rights. (Right-click and select **Run as Administrator**.)
  - b. On the Welcome screen, select **Next**.
  - c. Check the **I accept the License Agreement** checkbox and select **Next**.
  - d. On the ready to install screen, select **Install**.
  - e. On the completion screen, deselect the Run Alteryx Now checkbox and select **Finish**.
  - f. After the installation, it is recommended that you permanently delete the Alteryx Predictive Tools installer to save on storage costs.
- 4) (Optional) Install Alteryx Intelligence Suite
  - a. Run the Alteryx Intelligence Suite installer (AlteryxAISInstall\_XXXX.X.X.XX) with admin rights. (Right-click and select **Run as Administrator**.)
  - b. On the Welcome screen, select **Next**.
  - c. On the ready to install screen, select **Install**.
  - d. On the completion screen, deselect the Run Alteryx Now checkbox and select **Finish**.
  - e. After the installation, it is recommended that you permanently delete the Alteryx Intelligence Suite installer to save on storage costs.

## Alteryx Data Packages

- 5) (Optional) Install Alteryx Data Packages
  - a. If you have licensed Alteryx Data Packages that will be available to users of Azure, follow the steps documented on the [Download and Install Alteryx Data Packages](#) help page to install the Alteryx Data Packages.
    - i. **NOTE:** Due to the disk space requirements for the Alteryx Data Packages, we recommend installing them to a network location. To install to a network location, follow the steps in the

[Prepare a Network Install](#) and [Register to Use a Dataset Installed on a Network](#) sections of the Alteryx help documentation.

- b. After the installation, it is recommended that you permanently delete the Alteryx Data Package installers if they are downloaded to the machine to save on storage costs. **IMPORTANT:** You should not delete installers from remote network drives as they will prevent future registration from the network location. Only delete Data Package installers if you downloaded them to the Azure machine.

## Alteryx Tools and Connectors

- 6) (Optional) Install Add-on Alteryx Tools and Connectors
  - a. Additional tools and Connectors can be downloaded from the [Alteryx Marketplace](#).
  - b. Before installing any Alteryx Tools and Connectors, complete the steps to [Activate](#) Alteryx Designer. The preferred method of activation is to [Activate Using License Server](#).
  - c. **IMPORTANT:** To ensure the Tools and Connectors are available to all users of the Azure environment, the tools must be installed for all users. To install them for all users, refer to the [Install Custom Tools](#) help documentation for Alteryx Server.
  - d. After the installation, it is recommended that you permanently delete the Alteryx tool and Connector installers to save on storage costs.

## Download and Install ODBC Drivers

- 1) (Optional) Install ODBC Drivers
  - a. Refer to Alteryx documentation at [ODBC and OLEDB Database Connections](#).
  - b. If needed, refer to the ODBC Driver documentation for installation steps.
  - c. After installing all the ODBC Drivers, it is recommended that you permanently delete the installers to save on storage costs.
- 2) (Optional) Create required ODBC System DSNs
  - a. If needed, refer to the ODBC Driver documentation for configuring System DSNs.
  - b. If using System DSNs, unless required, we do not recommend saving passwords with the DSN configuration.
  - c. NOTE: Users can create User DSNs which will persist between sessions. Having users create their own user DSNs or using [Data Connection Manager \(DCM\)](#) in Alteryx Designer might be preferred to improve security and governance in the Azure environment.

## Installing Additional Software

- 1) (Optional) Install any additional software, for example Microsoft Office, Notepad++, Chrome, or other applications you want to include.
  - a. **IMPORTANT:** For optimal performance, we do not recommend installing other CPU, I/O, or Memory intensive applications.

# Licensing Alteryx Designer

Your organization must have valid Alteryx Designer licenses. Multiple activation methods are available.

## Alteryx License Server (ALS) – Recommended for Pooled Host Pools

- In multi-session (pooled) environments, licenses must be deactivated to return them to the license pool.

- ALS centralizes license management, usage tracking, and compliance.
- Install ALS on a separate Windows Server outside the AVD environment.
- See [Install and Use Alteryx License Server](#) for more details.

## Online Activation – Recommended for Personal Host Pools

- Each user can directly activate with a license key in the Alteryx Designer application.
- Since users have a dedicated VM, they do not need to return the license to a pool.
- See [Activate Alteryx Overview | Activate License Online](#).

## Additional Methods of Activation

### Request License File

- If machines don't have internet access, you must use Request (.req) and Activation (.bin) files.
- Users submit the Request file through a machine with internet access.
- For more information, go to Alteryx documentation at [Activate Alteryx Overview | Activate License Offline \(File Activation\)](#).

### Command-Line Options

- Alteryx Designer supports licensing through command-line options.
- This approach also works with Alteryx License Server (ALS).
- For more information, go to Alteryx documentation at [Command-Line Options](#).

### License Portal API

- The [Licensing & Downloads Portal API](#) enables administrators to manage licenses via scripts.
- For more information, go to Alteryx documentation at [Licenses API](#).

See Alteryx documentation at [License and Activate | Get Started](#) for additional details.

# Managing Applications and Dependencies, Software Components, ODBC Driver Updates and More

This section guides you on how to update Alteryx Designer and related components and add-ons.

Updating the golden image is a similar process to creating new one. Follow best practices of documentation and backups before updating applications and dependencies. Read Microsoft documentation at [Create a golden image in Azure](#).

You can also refer to Alteryx documentation at [Download and Install a Product](#).

## Upgrading Designer

- 1) Sign in to the [Alteryx Licensing and Downloads Portal](#) to download the Alteryx products that will be made available to your users through Azure Virtual Desktop.
  - a. **IMPORTANT:** Please be sure to download the admin version of Alteryx Designer.
  - b. For Predictive Tools and Intelligence Suite installations:
    - i. Download the admin versions.
    - ii. Ensure these versions match your Alteryx Designer installation version.

- c. If you have licensed Alteryx Data Packages and plan to make them available to Azure users, choose which licensed Data Packages to download.
- 2) Install Alteryx Designer
    - a. Run the Alteryx Designer Installer with admin rights. (Right-click and select **Run as Administrator**.)
    - b. On the Welcome screen, select **Next**.
    - c. Check the I accept the License Agreement checkbox and select **Next**.
    - d. Confirm the installation folder and select **Next**.
    - e. On the ready to install screen, select **Install**.
    - f. On the completion screen, deselect the Run Alteryx Now checkbox and select **Finish**.
    - g. After the installation, it is recommended that you permanently delete the Alteryx Designer installer to save on storage costs.
    - h. A command line installation is available. Go to Alteryx documentation at [Use Command-Line Options](#).

## Upgrading Alteryx Predictive Tools and Alteryx Intelligence Suite

- 1) For Predictive Tools and Intelligence Suite installations:
  - a. Download the admin versions.
  - b. Ensure these versions match your Alteryx Designer installation version.
- 2) (Optional) Install the Alteryx Predictive Tools
  - a. Run the Alteryx Predictive Tools installer (RInstaller\_XXXX.X.X.XX) with admin rights. (Right-click and select **Run as Administrator**.)
  - b. On the Welcome screen, select **Next**.
  - c. Check the I accept the License Agreement checkbox and select **Next**.
  - d. On the ready to install screen, select **Install**.
  - e. On the completion screen, deselect the Run Alteryx Now checkbox and select **Finish**.
  - f. After the installation, it is recommended that you permanently delete the Alteryx Predictive Tools installer to save on storage costs.
- 3) (Optional) Install Alteryx Intelligence Suite
  - a. Run the Alteryx Intelligence Suite installer (AlteryxAISInstall\_XXXX.X.X.XX) with admin rights. (Right-click and select **Run as Administrator**.)
  - b. On the Welcome screen, select **Next**.
  - c. On the ready to install screen, select **Install**.
  - d. On the completion screen, deselect the Run Alteryx Now checkbox and select **Finish**.
  - e. After the installation, it is recommended that you permanently delete the Alteryx Intelligence Suite installer to save on storage costs.

## Upgrading or Adding New Alteryx Tools and Alteryx Connectors

- 1) (Optional) Install Add-on Alteryx Tools and Connectors
  - a. Additional Tools and Connectors can be downloaded from the [Alteryx Marketplace](#).
  - b. Before installing any Alteryx Tools and Connectors, complete the steps to [Activate](#) Alteryx Designer. The preferred method of activation is to [Activate Using License Server](#).
  - c. **IMPORTANT:** To ensure the tools and Connectors are available to all users of the Azure environment, the tools must be installed for all users. To install them for all users, refer to the [Install Custom Tools](#) help documentation for Alteryx Server.

- d. After the installation, it is recommended that you permanently delete the Alteryx Tool and Connector installers to save on storage costs.

## Upgrading or Adding New Alteryx Data Packages

- 1) (Optional) Install Alteryx Data Packages
  - a. If you have licensed Alteryx Data Packages that will be available to users of Azure, follow the steps documented on the [Download and Install Alteryx Data Packages](#) help page to install the Alteryx Data Packages.
    - i. NOTE: Due to the disk space requirements for the Alteryx Data Packages, we recommend installing them to a network location. To install to a network location, follow the steps in the [Prepare a Network Install](#) and [Register to Use a Dataset Installed on a Network](#) sections of the Alteryx help documentation.
  - b. After the installation, it is recommended that you permanently delete the Alteryx Data Package installers if they were downloaded to the machine to save on storage costs. **IMPORTANT:** You should not delete installers from remote network drives as they will prevent future registration from the network location. Only delete Data Package installers if you downloaded them to the Azure machine.

## Upgrading or Adding New ODBC Drivers and System DSNs

- 1) (Optional) Install ODBC Drivers
  - a. Refer to Alteryx documentation [ODBC and OLEDB Database Connections](#).
  - b. If needed, refer to the ODBC Driver documentation for installation steps.
  - c. After installing all the ODBC Drivers, it is recommended that you permanently delete the installers to save on storage costs.
- 2) (Optional) Create required ODBC System DSNs
  - a. If needed, refer to the ODBC Driver documentation for configuring System DSNs.
  - b. If using System DSNs, unless required, we do not recommend saving passwords with the DSN configuration.
  - c. NOTE: Users can create User DSNs which will persist between sessions. Having users create their own user DSNs or using [Data Connection Manager \(DCM\)](#) in Alteryx Designer might be preferred to improve security and governance in the Azure environment.

# Post-installation Best Practices

## Data Connection Manager (DCM)

DCM connections within Designer are specific to the user aspect of the virtual desktop environment and not a system administrator issue. See Alteryx documentation [DCM – Designer](#).

DCM will persist connections and details across user sessions in both personal and pooled hosts, but you may need additional configuration depending on the type.

## Personal Host Pools

In personal hosts, DCM settings are stored in the user profile data on the OS disk of the VM because users only use one session host. DCM and database connections should persist between sessions.

## Pooled Host Pools

Pooled hosts connect to different session hosts within the pool. FSLogix is recommended because it stores the user profiles centrally in a container that is accessed by the session host. The user profiles include any application configuration such as DCM and database connections created in Designer. We recommend Microsoft documentation [User profile management for Azure Virtual Desktop with FSLogix profile containers](#).

For definitions on host pools and user data, go to Microsoft documentation at [Azure Virtual Desktop terminology](#).

## Syncing Connections through Alteryx Server UI

If you want the end users to have their DCM connections synced across machines, then Alteryx Server is required. For more details go to [DCM – Server | Server Synchronization](#).

## Potential Issues

### Data Connection Manager (DCM)

Vaults using certificate-based authentication methods were not verified in Azure and AWS. It may or may not work within your environment. See our [Help documentation for supported external vaults](#).

## FAQ

### Why does this guide not include configuration details for Azure Virtual Desktop?

Alteryx does not manage the setup of Azure Virtual Desktop. We assume a working AVD environment.

### Will Alteryx help us with deployment?

Contact your Alteryx account representative for options such as Professional Services or additional resources.

### How will my organization benefit from deploying Alteryx Designer on Azure Virtual Desktop?

You gain centralized administration, standardized updates, improved security and compliance, and possibly reduced costs by consolidating infrastructure in Azure.

### How do end users connect to their virtual desktops?

End users can access AVD sessions via a modern web browser, the [Windows App](#), or the [Microsoft Remote Desktop](#) client.

# Additional Alteryx Products

Here is a list of additional Alteryx products that were not mentioned above and have connections to Alteryx Designer. For a complete list, go to [Alteryx Products](#).

## Server

Alteryx Server is an enterprise-scale workflow orchestration and automation platform that enables centralized management of Alteryx workflows. It provides multi-node processing, scheduling capabilities, and REST API access for integration with external systems. Users can upload and download workflows and assets across multiple Servers. For more information go to [Alteryx Server](#).

## Designer Cloud

Browser-based analytics platform for creating and executing data workflows without local installation requirements. Integrates with cloud data sources and provides real-time collaboration capabilities. For more information go to [Alteryx Designer Cloud](#).

## Alteryx AI Platform for Enterprise Analytics

This cloud-native analytics suite combines Designer Cloud capabilities with enterprise governance and scalability features. It enables seamless integration with cloud data warehouses and provides built-in version control. Cloud administrators can create and manage workspaces that may be linked to Alteryx Designer. For more information go to [Alteryx AI Platform for Enterprise Analytics](#).

## Auto Insights

Auto Insights is an automated business intelligence tool that discovers and visualizes patterns in data without manual analysis. Generates natural language explanations of key findings and anomalies. For more information go to [Auto Insights](#).

## Location Intelligence

Location Intelligence is a spatial analytics solution that provides geocoding, spatial processing, and location-based insights. It integrates with mapping services and supports complex geographical analysis. For more information go to [Location Intelligence](#).

## Cloud Execution for Desktop

Cloud Execution for Desktop is a hybrid execution environment that allows Designer desktop workflows to leverage cloud computing resources. It enables scalable processing while maintaining local development experience. Users can upload and download workflows and assets to manage in the cloud. For more information go to [Cloud Execution for Desktop](#).

## Machine Learning

Automated machine learning platform for model development, deployment, and monitoring. Provides feature engineering, model selection, and MLOps capabilities for production environments. For more information go to [Alteryx Machine Learning](#).

## Connect

Alteryx Connect is a data catalog and metadata management system that enables discovery and governance of enterprise data assets. It provides lineage tracking and business glossary functionality. For more information go to [Alteryx Connect](#).

## Designer FIPS

FIPS 140-2 compliant version of Alteryx Designer for organizations requiring certified cryptographic modules. Meets U.S. federal government security standards. For more information go to [Designer FIPS](#).

## Server FIPS

FIPS 140-2 compliant version of Alteryx Server providing secure, enterprise-scale workflow automation. Ensures cryptographic compliance while maintaining core Server functionality. For more information go to [Server FIPS](#).