



ALL AROUND **AZURE**

Unlocked: Cloud Scale Analytics





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Tailwind Traders – Implementing Data Mesh

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Microsoft Cloud-scale analytics guidance

Cloud-scale analytics - Microsoft Cloud Adoption Framework for Azure

Overview

Build an initial strategy

Define your plan

> Prepare analytics estate

> Govern your analytics estate

> Secure your analytics estate

> Organize people and teams

> Manage your analytics estate

Well-architected considerations

> Architectures

> Best practices

> Featured Azure products

Cloud-scale analytics

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With larger, more sophisticated forms of cloud adoption, the journey to the cloud becomes more complex. The Azure Cloud Scale Analytics is a scalable, repeatable framework for building a modern data platform that meets your unique business needs.

Cloud-scale analytics covers technical and non-technical considerations for analytics and governance in the cloud. This guidance strives to be cloud agnostic to support hybrid and multicloud adoption, but the technical implementation examples focus on Azure products.

Key areas are:

- Serve data as a product rather than a byproduct.
- Provide an ecosystem of data products instead of a singular data warehouse that might not best fit the data scenario.
- Drive a default approach to enforce data governance and security.
- Drive teams to consistently prioritize business outcomes instead of focusing just on the underlying technology.

It builds upon Microsoft's cloud adoption framework and requires understanding of landing zones. [What is a landing zone?](#). If you don't have an implementation of Azure landing zones, then it's important to consult your cloud teams about how to meet prerequisites. For more information, see [Ensure the environment is prepared for the cloud adoption plan](#).

Reference architectures allow you to start with a small footprint and grow over time, adapting the scenario to your use cases.

Cloud-scale analytics includes repeatable templates to accelerate five core infrastructure and resource deployments.



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aka.ms/adopt/cloudscaleanalytics



Reference Implementation

Simple One-Click and DevOps Deployment Options



Deploy to Azure Button

Azure DevOps Pipelines and
GitHub Actions support

Secure End-to-End Setup and Services

Tested and Validated with Customers



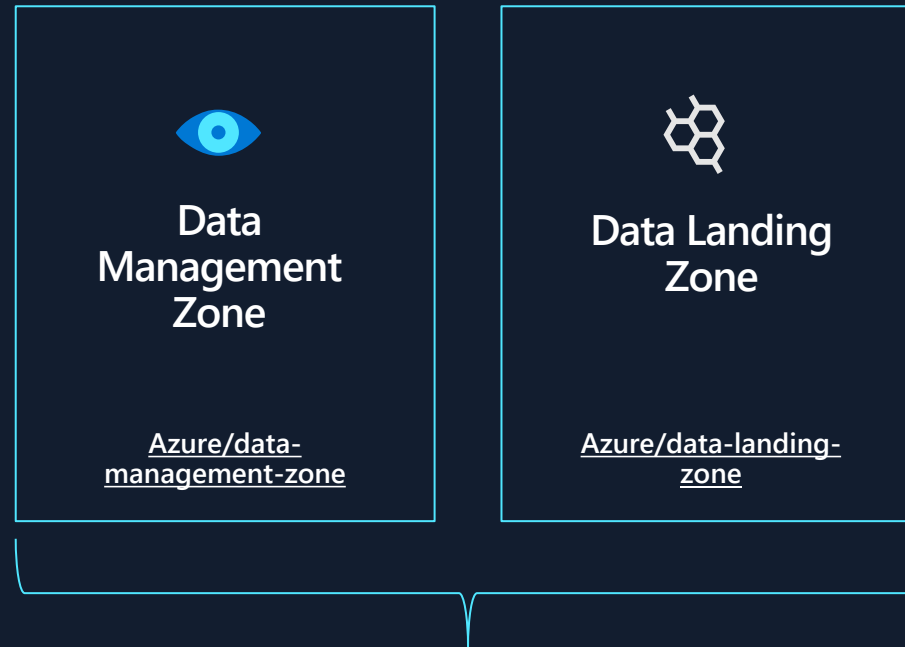
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Reference Implementation

Simple One-Click and DevOps Deployment Options



Open-Source Templates available at no cost



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Reference Implementation

Simple One-Click and DevOps Deployment Options



Data
Management
Zone

[Azure/data-management-zone](#)



Data Landing
Zone

[Azure/data-landing-zone](#)



Data
Application
Streaming

[Azure/data-product-streaming](#)



Data Application
Batch

[Azure/data-product-batch](#)



Data Application
Analytics

[Azure/data-product-analytics](#)



Open-Source Templates available at no cost



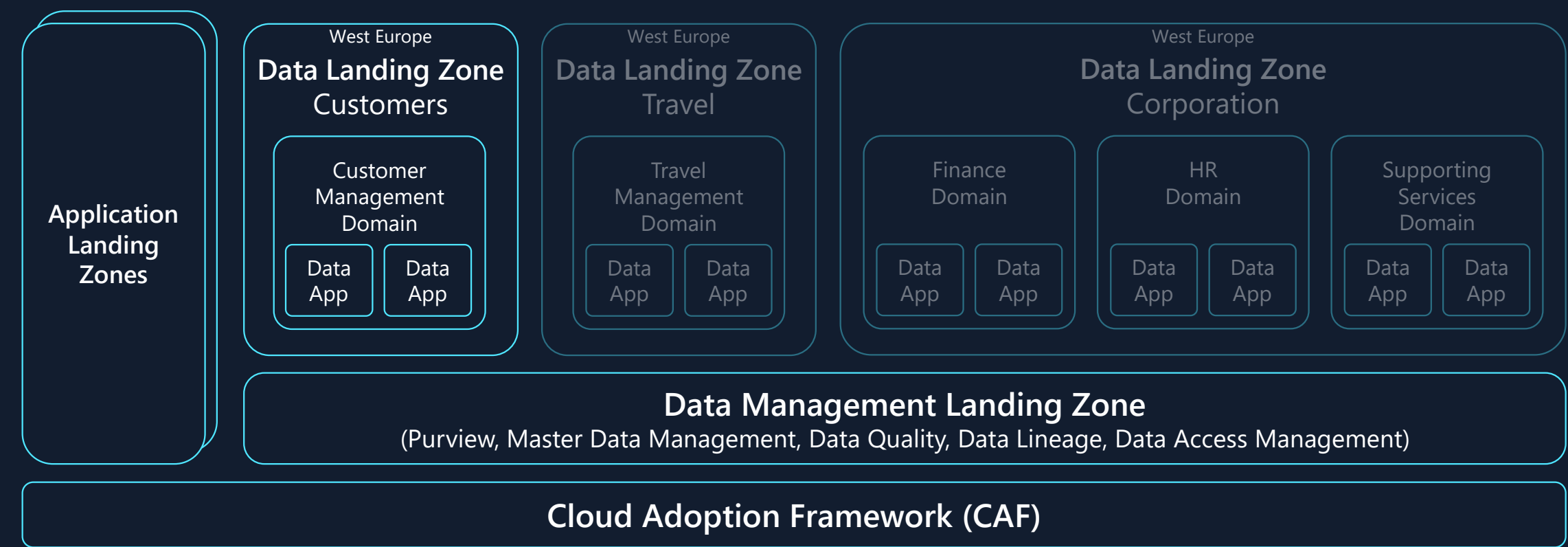
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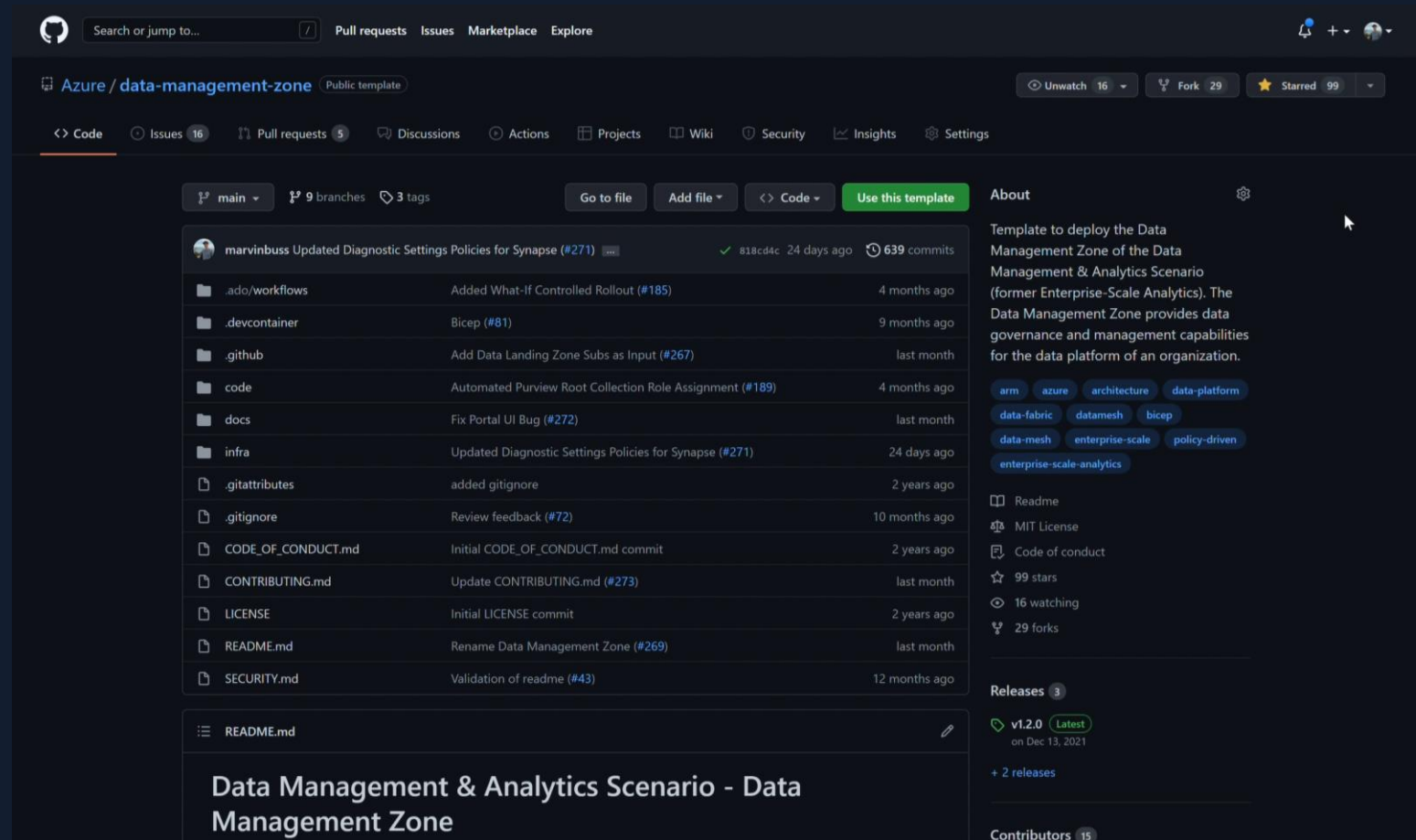
Data Mesh for Tailwind Traders

Functional and regionally aligned data landing zones



Deployment of Data Management & Landing Zone

Setup of Core Infrastructure



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Walkthrough of Data Management & Landing Zone

Walkthrough of Core Infrastructure

The screenshot shows the Microsoft Azure portal interface. The main content area displays the 'Resource groups' page for the 'esa-1' subscription. The page includes a search bar, a filter for 'Location == all', and a table of resource groups. The table has columns for 'Name', 'Subscription', and 'Location'. The resource groups listed are: 'base-rg', 'cloud-shell-storage-west europe', 'DefaultResourceGroup-NEU', 'dmz-dev-automation', 'dmz-dev-consumption', 'dmz-dev-container', 'dmz-dev-global-dns', 'dmz-dev-governance', 'dmz-dev-mgmt', 'dmz-dev-network', 'dmz-dev-purview001', 'dmz-fidalg-rg', 'managed-rg-mabuss-test', 'NetworkWatcherRG', and 'test-rg'. The left sidebar shows navigation options like 'Subscriptions', 'Resource groups', 'Resources', and 'Preview features'. The top navigation bar includes the Microsoft Azure logo and a search bar.

Name	Subscription	Location
base-rg	esa-1	East US
cloud-shell-storage-west europe	esa-1	West Europe
DefaultResourceGroup-NEU	esa-1	North Europe
dmz-dev-automation	esa-1	North Europe
dmz-dev-consumption	esa-1	North Europe
dmz-dev-container	esa-1	North Europe
dmz-dev-global-dns	esa-1	North Europe
dmz-dev-governance	esa-1	North Europe
dmz-dev-mgmt	esa-1	North Europe
dmz-dev-network	esa-1	North Europe
dmz-dev-purview001	esa-1	North Europe
dmz-fidalg-rg	esa-1	West Europe
managed-rg-mabuss-test	esa-1	West Europe
NetworkWatcherRG	esa-1	North Europe
test-rg	esa-1	East US



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Creating Value inside the Data Landing Zone

Building Data Applications inside the Data Landing Zones

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The left sidebar contains navigation links for Subscriptions, Resource groups, Resources, and other management tools. The main content area displays the 'esa-2' Resource groups page, which includes a search bar, a filter dropdown set to 'Location == all', and a table of resource groups. The table has columns for Name, Subscription, and Location. The 'dlz01-dev-runtimes' resource group is highlighted in the list.

Name	Subscription	Location
dh-consumption	esa-2	East US
dlz01-dev-bastion	esa-2	North Europe
dlz01-dev-di001	esa-2	North Europe
dlz01-dev-di002	esa-2	North Europe
dlz01-dev-dp001	esa-2	North Europe
dlz01-dev-dp002	esa-2	North Europe
dlz01-dev-events	esa-2	North Europe
dlz01-dev-externalstorage	esa-2	North Europe
dlz01-dev-integration-databricks001-rg	esa-2	North Europe
dlz01-dev-logging	esa-2	North Europe
dlz01-dev-metadata	esa-2	North Europe
dlz01-dev-mgmt	esa-2	North Europe
dlz01-dev-network	esa-2	North Europe
dlz01-dev-product-databricks001-rg	esa-2	North Europe
dlz01-dev-product-synapse001	esa-2	North Europe
dlz01-dev-runtimes	esa-2	North Europe
dlz01-dev-shared-integration	esa-2	North Europe
dlz01-dev-shared-product	esa-2	North Europe
dlz01-dev-storage	esa-2	North Europe



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