

Nyt fra Esri UC 2025 - Enterprise

Ved Morten Martinsen & Sebastian Mariendal Kristensen

Sessionens program

Nyheder i ArcGIS Enterprise 11.5

Hvad kommer i version 12 og derefter

Sikkerhed i ArcGIS Enterprise - Best Practice

Nyheder I ArcGIS Enterprise 11.5

- Ændring i user types
- Item klassifikation
- Bruger reporter
- About
- API-KEYS (brugerløs service integration)

Ending 1 license typer

2023 AND PRIOR

GIS Professional Advanced	Includes everything from GIS Professional Standard, plus ArcGIS Pro Advanced.
GIS Professional Standard	Includes everything from GIS Professional Basic, plus ArcGIS Pro Standard.
GIS Professional Basic	Includes everything from Creator, plus ArcGIS Pro Basic.
Creator	Includes view, edit, and create access to content and apps in ArcGIS Online or ArcGIS Enterprise.
Mobile Worker	View & edit features in ArcGIS Online or Enterprise, plus ArcGIS Field apps.
Editor	View & edit features in ArcGIS Online or ArcGIS Enterprise.
Viewer	View-only access to ArcGIS Online or ArcGIS Enterprise.

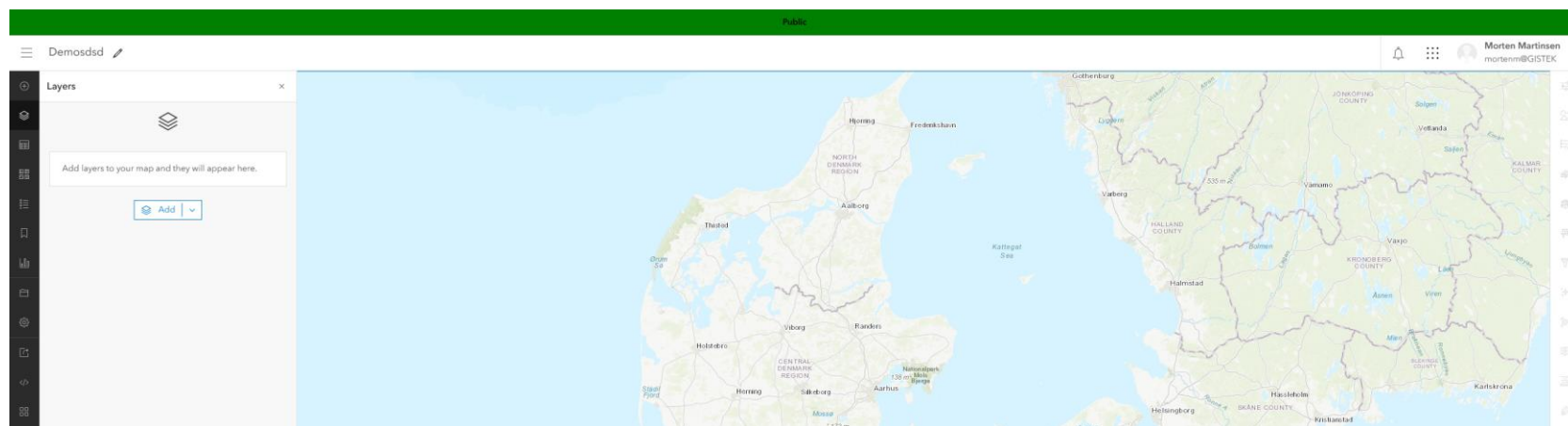
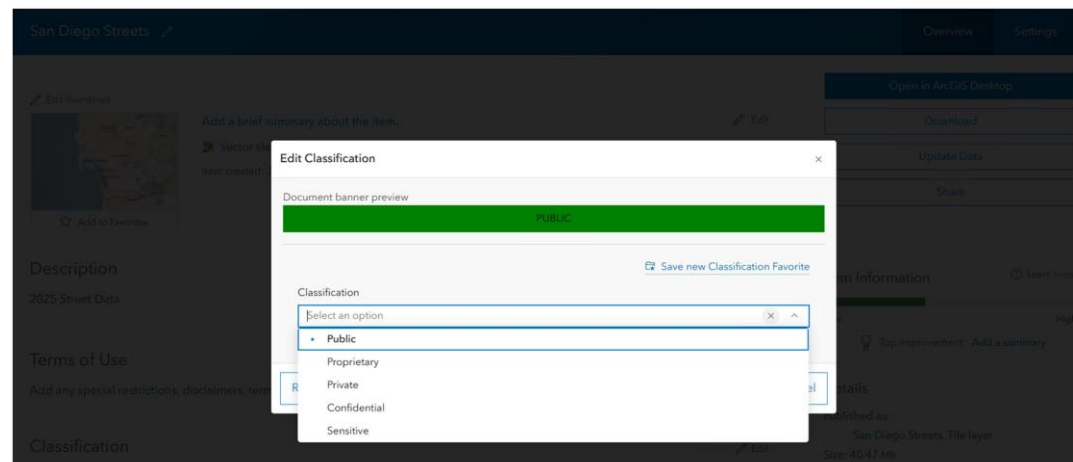
MIGRATE TO

2024 AND BEYOND

Professional Plus	Includes everything from Professional, and ArcGIS Pro Advanced and ArcGIS Pro extensions.
Professional	Includes everything from Creator, plus access to ArcGIS Pro Standard and advanced data management & editing.
Creator	Create maps, develop apps, conduct analyses, and manage data. Access ArcGIS Pro Basic.
Mobile Worker	Includes everything from Contributor, and focused field apps and location sharing.
Contributor	Review data and make simple edits, securely explore and collaborate in ArcGIS.
Viewer	Securely view maps, apps, and content. Monitor dashboards.

Nyheder I ArcGIS Enterprise 11.5

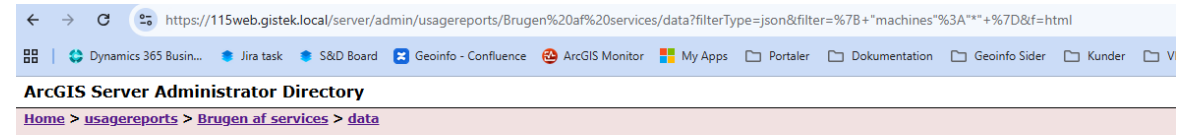
- Item klassifikation
- <https://github.com/Esri/classification>



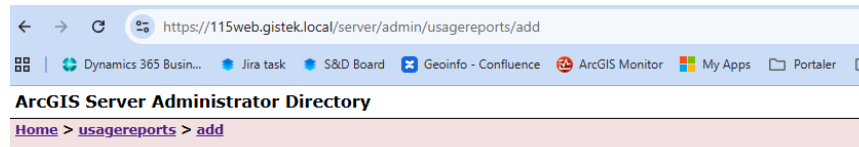
Nyheder I ArcGIS Enterprise 11.5

- Usage Reports

NÅR VIDEN SKAL SES



Timestamp	RequestCount of services/	ServiceUsageByUsers of services/
1755169200000	1028	System/PublishingTools.GPServer,annsophiegs@GISTEK,66 Hosted/Buildings_polygons.FeatureServer,ESRI_Anonymous,1 Hosted/Buildings_polygons.FeatureServer,anonymous,9 Hosted/Buildings_polygons.FeatureServer,annsophiegs@GISTEK,150 Hosted/Addresses_points.FeatureServer,ESRI_Anonymous,1 Hosted/Addresses_points.FeatureServer,anonymous,9 Hosted/Addresses_points.FeatureServer,annsophiegs@GISTEK,157 Hosted/service_1cef4f1ad20947c4b98a97fe91c574d3.FeatureServer,anonymous,3 Hosted/service_1cef4f1ad20947c4b98a97fe91c574d3.FeatureServer,annsophiegs@GISTEK,135
1755255600000	1733	System/PublishingTools.GPServer,sorenbg@gistek,106 System/PublishingTools.GPServer,naomic@gistek,13 Hosted/Afspaerringen.FeatureServer,anonymous,25 Hosted/Afspaerringen.FeatureServer,naomic@gistek,857 Utilities/PrintingTools.GPServer,anonymous,6 Utilities/PrintingTools.GPServer,naomic@gistek,26 Utilities.PrintingTools.GPServer,ESRI_Anonymous,1 Hosted/FindEjeren_Statistik_opsummering.FeatureServer,sorenbg@gistek,275 Hosted/FindEjeren_Statistik_opsummering.FeatureServer,anonymous,10 Hosted/FindEjeren_Statistik_opsummering.FeatureServer,sorenbg@gistek,395 Hosted/FindEjeren_Statistik_opsummering.FeatureServer,anonymous,11 NOTATA



Create Usage Report

Usage Report Properties

Usage Report
(in JSON format):*

```
{
  "reportname": "Brugen af services",
  "since": "LAST_MONTH",
  "queries": [
    {
      "resourceURIs": ["services/"],
      "metrics": ["RequestCount", "ServiceUsageByUsers"]
    }
  ],
  "metadata": "Brugen af service den sidste maaned."
}
```

Format: JSON

Create

Nyheder I ArcGIS Enterprise 11.5

- About

Portal Administrator Directory

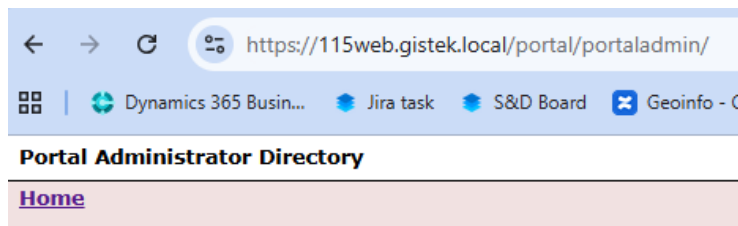
[Home](#) > [About](#)

About

Portal:

```
{
  "lastUpdated": 1757676105912,
  "organizationUrl": "https://REDACTED.example.com/portal",
  "currentBuild": "56755",
  "currentVersion": "11.5.0",
  "machines": [
    {
      "machineName": "REDACTED.example.com",
      "adminURL": "https://REDACTED.example.com:7443/arcgis",
      "role": "",
      "webServerCertificateAlias": "115web_27",
      "hardware": {
        "os": "Microsoft Windows Server 2025 (Datacenter) build 26100",
        "cpu": "INTEL(R) XEON(R) SILVER 4509Y\\n 1 physical CPU package(s)\\n 2 physical CPU core(s)\\n 4 logical CPU(s)\\nIdentif Stepping 8\\nProcessorID: 0000000000000000\\nMicroarchitecture: Sapphire Rapids",
        "systemMemoryMB": 32766,
        "systemMemoryAvailableMB": 5008,
        "numPhysicalProcessors": 4,
        "numLogicalProcessors": 2,
        "localDiskUsage": [
          {
            "mount": "C:\\\\",
            "diskTotalSpaceGB": 126,
            "diskUsableSpaceGB": 50,
            "exceededDiskSpaceThreshold": false,
            "directory": "INSTALL",

```



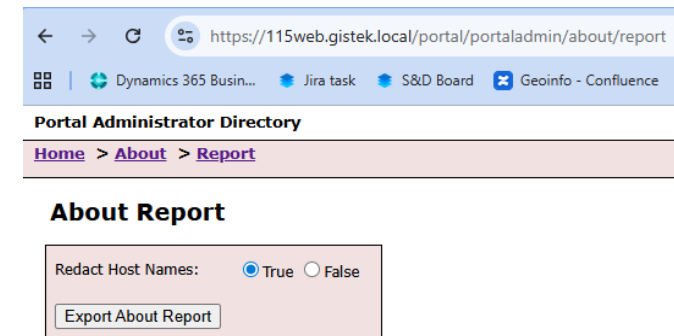
Site Root - /

Version: 11.5

Resources: [About](#) [System](#) [Security](#) [Federation](#) [Logs](#) [Machine](#)

Supported Operations: [Export Site](#) [Import Site](#)

Supported Interfaces: [REST](#)



Nyheder I ArcGIS Enterprise 11.5

API keys (brugerløse integrationer)

New item 



Drag and drop your file or choose an option

 Your device

 **Feature layer**
Create an editable layer with fields copied from a template or feature layer.

 **Developer credentials** →
Create API key and OAuth 2.0 credentials to build custom applications.

 **Tile layer**
Create a fast drawing vector tile layer, 3D tiles layer, or raster tile layer.

 **Locator**
Find places and addresses using your own geocode service.

 **Raster function template**
Create a raster function template that can be used with imagery layers and in raster analysis.

 **URL**
Link to an ArcGIS Server web service, CSV, OGC web service, KML, GeoJSON or a document.

 **Application**
Link to an application on the web or create a new application.

 **Scene layer**
Create a fast drawing scene layer using 3D content.

 **Data store**
Add a connection to a data store you manage.

Create developer credentials

Select credential type

Developer credentials are used to get an access token for custom applications. Access tokens are required to authenticate requests to secure items and services.

	 OAuth 2.0 credentials	 API key credentials	
	For user authentication Use for applications that require your users to sign in with an ArcGIS account. Learn more	For app authentication Use for public applications that do not require your users to sign in and generate access tokens server-side. Learn more	For API key authentication Use for public applications that do not require your users to sign in or for personal scripting apps. Learn more
Access token privileges	Defined by the signed-in user's account	Defined as a property of the credentials item	Defined as a property of the credentials item
Access token storage	Dynamically created when a user signs in	Dynamically created and stored server-side or in a standalone console script	Embedded in application
Access token duration	Up to 2 weeks and can be refreshed	2 weeks	Up to one year and can be rotated

Create developer credentials

Credential type: API key > Settings

Privileges

Grant privileges to allow your access token to perform specific operations.

General privileges

Enabled: 1/24

Members

Enabled: 0/1

Groups

Enabled: 0/3

Content

Enabled: 0/11

Sharing

Enabled: 0/5

Features

Enabled: 1/2

Edit

Allow application to edit features in editable layers that are not public, based on the edit options enabled on the layer.

Edit with full control

Allow application to add, delete, and update features in an editable, hosted feature layer, regardless of the editing options enabled on the layer.

Version management

Enabled: 0/1

Back

Cancel

Next

Create developer credentials

Credential type: API key > Settings > Privileges

Restrict item access

You have selected privileges which grant access to **all items for which you have permissions**. It is strongly recommended that you restrict access to view the **specific items and edit the specific feature layers** accessed by these credentials. You can select up to 100 items you own to override item-related privileges set in the previous step.

Applies to app and API key authentication only.

Selected: 1 1-47 of 47

Title

Modified

Owner

☒

Afsparingsarealer_test



Feature layer

Sep 3, 2025

initialadmin

[View details](#)

☐

web editor



Web mapping application

Sep 3, 2025

initialadmin

[View details](#)

☐

Untitled experience 1



Web experience

Jul 8, 2025

initialadmin

[View details](#)

☐

web editor



Web map

Jul 8, 2025

initialadmin

[View details](#)

☐

VertiGIS Studio User Preferences



Web mapping application

Jul 7, 2025

initialadmin

[View details](#)

☐

Many layouts app VertiGIS Support



Web mapping application

Jul 7, 2025

initialadmin

[View details](#)

☐

Afsparingsarealer_test



Service definition

Jul 3, 2025

initialadmin

[View details](#)

☐

buildings_test



Feature layer

Jul 3, 2025

initialadmin

[View details](#)

☐

buildings_test



Service definition

Jul 3, 2025

initialadmin

[View details](#)

Back

Cancel

Add items

Hvad kommer i version 12 og derefter!

Hvad kommer i version 12 og derefter?

AI genereret metadata

AI-powered metadata suggestions

Open in Map Viewer

Open in Scene Viewer

Share

Suggest

▼

Review suggested item information

AI generated content may be inaccurate. [Learn more](#)

Title: U.S. Counties from Natural Earth

Summary: A comprehensive representation of U.S. counties sourced from Natural Earth, ideal for geographic and demographic analysis.

Description: This Feature Service provides a comprehensive representation of the counties in the United States, sourced from Natural Earth. It includes a detailed polygon representation of each county's geographic boundaries, along with various attributes such as administrative codes, names, and geographic identifiers. The average area of the counties is approximately 2842.35 square kilometers, with the largest county reaching up to 382,459 square kilometers. This service is particularly valuable for demographic analysis, urban planning, and geographic research, making it an essential resource for GIS professionals and researchers. The geographic extent of this service covers the entire United States, allowing for in-depth analysis and visualization of county-level data.

Back Cancel Save

AI-powered metadata suggestions

Review suggested field properties

Review and edit the suggestions to ensure accuracy. Select from fields you want to view.

Field name	Display name	Description	Value type
fid	Feature ID	A unique identifier for each feature in the dataset.	Unique identifier
name	Feature Name	The identification of the feature, including its name.	Type or Category
admin	Admin Code	A numerical code indicating the administrative level of the feature.	Count or Amount
admin_code	Administrative Division Code	A unique code assigned to each administrative division.	Unique identifier
iso_3166_2	ISO 3166-2 Code	The ISO 3166-2 code representing the state or region.	Name or Title
iso_3166_3	ISO 3166-3 Code	The three-letter ISO code for the United States, which is...	Name or Title
iso_3166_1	ISO 3166-1 Code	A numerical value indicating the country's position in the world.	Count or Amount
name	Country Name	The name of the administrative division (country).	Name or Title

Back Cancel Save suggestions

Review generated field information

Generated by AI. Check for accuracy. [Learn more](#)

Field name	Field display name	Field value type	Field description
FID	Feature ID	uniqueIdentifier	Feature ID
OBJECTID	Object ID	uniqueIdentifier	Unique identifier for each object in the dataset.
LENGTH	Trail Length (m)	measurement	Length of the trail in meters.
ZON_TRAID	Trail ID	uniqueIdentifier	Unique identifier for trails in Zion National Park.
ZON_TRAID_1	Secondary Trail ID	uniqueIdentifier	Secondary unique identifier for trails in Zion National Park.
NAME	Trail Name	nameOrTitle	Name of the trail.
USE	Trail Use	typeOrCategory	Usage type or category for the trail.
TYPE	Trail Type	typeOrCategory	Type of trail or feature.
FEET	Trail Length (ft)	measurement	Length of the trail in feet.
MILES	Trail Length (mi)	measurement	Length of the trail in miles.
HORSE_USE	Horse Use	boolean	Indicates if horse use is allowed on the trail.
COMMENT	Trail Comments	description	Additional comments or notes about the trail.
SOURCE	Data Source	typeOrCategory	Source of the trail data.
SOURCE_ID	Source Edition	typeOrCategory	Source edition of the trail data.
EDIT_BY	Edited By	nameOrTitle	Person who edited the trail data.

Cancel Save

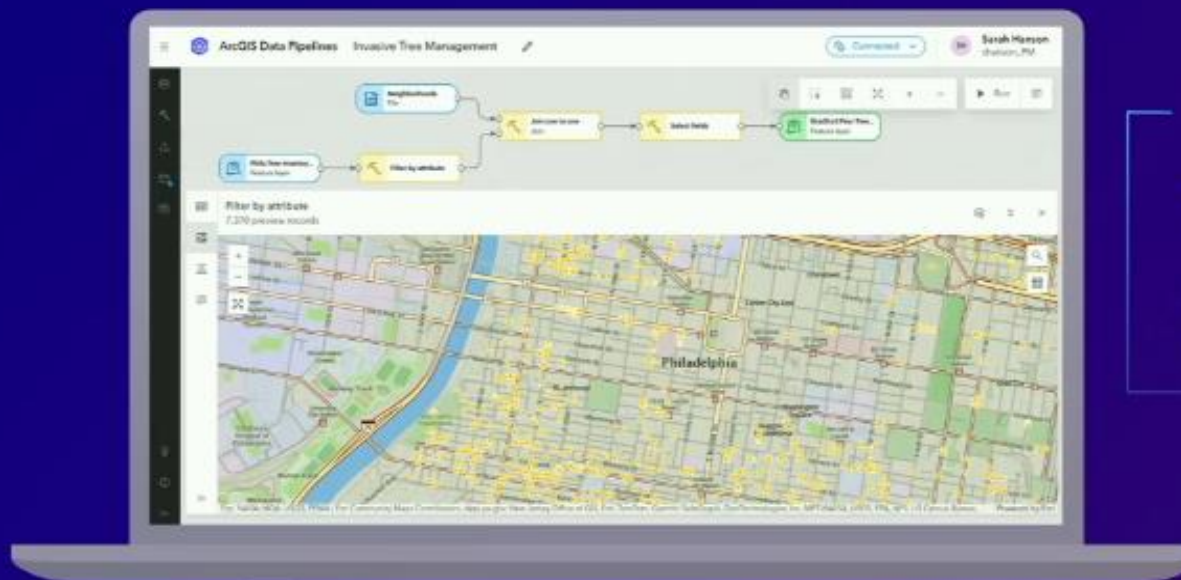
Hvad kommer i version 12 og derefter?

Data Pipelines

Modelbuilder lignende værktøj til
hente/opdatere eksterne data i
ArcGIS Enterprise

ArcGIS Data Pipelines in ArcGIS Enterprise

Planned for Windows, Linux, and Kubernetes



Experience

- No-Code Web App
- Drag & Drop UX
- Map & Table Previews
- Scheduling & Automation

Data Sources

- Files (CSV, JSON, Shapefiles..)
- Cloud storage (Amazon & Azure)
- Cloud data warehouses
- ... and more

Tools

- Filter, Select by Attributes
- Calculate, Update Fields
- Create Geometry & Time
- Join & Merge

Hvad kommer i version 12 og derefter?

Cloud integration

- Object Store (tidligere tileCache) kan gemmes i object stores som i Azure Blob storage eller Amazon S3.
- Support for Cloud based Relational database as Relation Datastore (Hosted features) for AGE på Windows eller Linux i skyen.
Dette kan allerede lade sig gøre for AGE on Kubernetes fra version 11.4
- Der arbejdes på at alt andet indhold også kan bruge Cloud services
Så som :
 - Portal content
 - ArcGIS Server Config store
 - Service cache,
 - Temp folders
 - System folders
 - Output folders

Hvad kommer i version 12 og derefter?

Backup

- Nyt API til WebGisDr
 - Forberet logging, til debug af fejl
 - Webhook integration
 - Email notifikationer
- Forbedret backup/restore tid fra Cloud storage
- Forbedret hastighed ved brug af Cloud storage
- Markant forbedret backup/restore ved normalt fil-sytem (on premise).
Da der ikke længere bruges compression

Hvad kommer i version 12 og derefter?

Databehandling

- Brug data fra Elasticsearch og Opensearch til at publicere services til Arcgis Enterprise
- Services kan læse fra GeoParquet filer fra fildrev eller cloud storage.
<https://geoparquet.org>
Parquet er et anerkendt format, som i høj grad bruges inden for Big data

Hvad kommer i version 12 og derefter?

2 NyenServertyper

- Reality Mapping server
 - Publicering af services til nye datatyper som:
 - True Ortho
 - 3D Mesh
 - DSM
 - Point Cloud
- ArcGIS Velocity server
 - En real-time ekstension, som giver mulighed for at tilgå data fra:
 - IOT sensorer
 - Message brokers
 - 3rd-party API's
 - Erstatning til GeoEvent Server

Hvad kommer i version 12 og derefter?

Hvad forsvinder?

ArcGIS Enterprise 11.5 prepares for 12.0

ArcGIS Enterprise 12.0 will not include Web AppBuilder, Configurable Apps, or Map Viewer Classic.

These are replaced by Experience Builder, Instant Apps, and Map Viewer.

Other features will be retired as well.

This includes retirement of ArcGIS Data Store tile cache data store and metadata editor classic.

Consider ArcGIS Enterprise 11.5 until ready to upgrade.

Blog for more information.



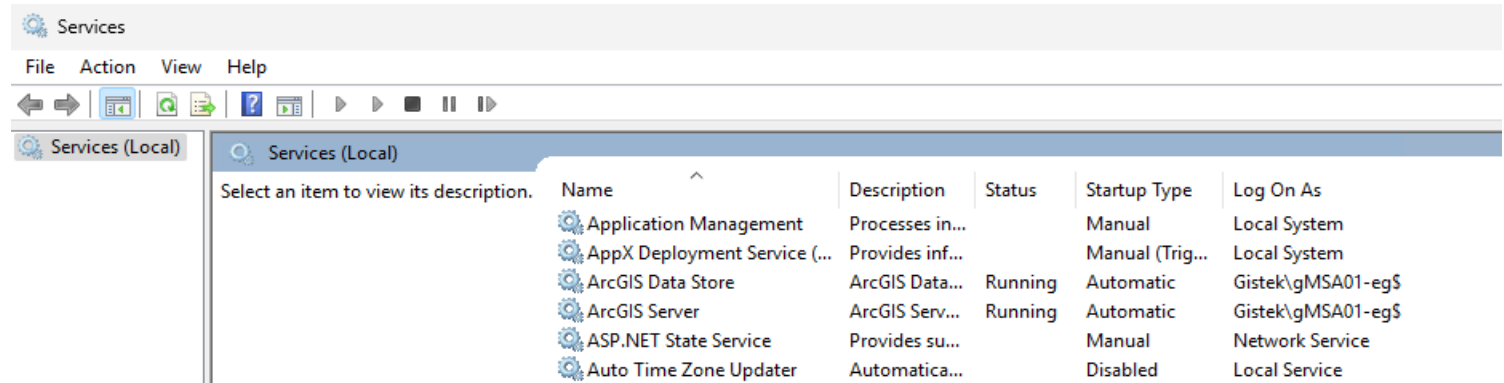
Sikkerhed i ArcGIS Enterprise - Best Practice

Sikkerhed I ArcGIS Enterprise - Best Practice

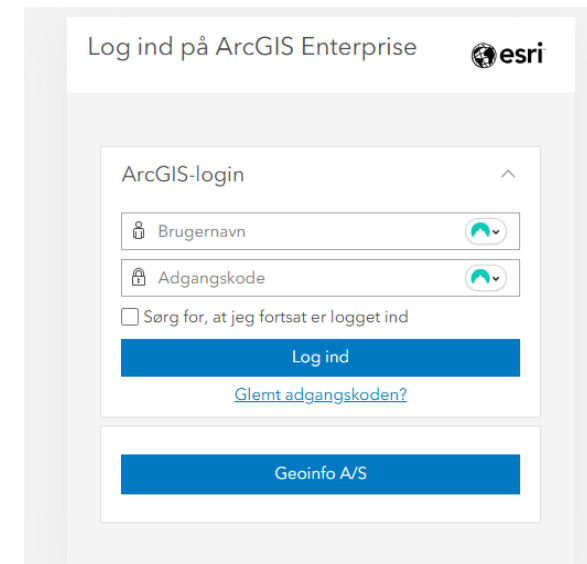
- gMSA – Group managed serviceaccount
- Brugerstyring - SAML og OpenID
- Proxy restriktioner
- Hosted feature layer view
- Delingsrestiktioner
- Forbedret logs - Audit logs

Sikkerhed I ArcGIS Enterprise - Best Practice

- gMSA – Group managed serviceaccount



- Brugerstyring - SAML og OpenID



Sikkerhed I ArcGIS Enterprise - Best Practice

- Proxy restriktioner

Portal for ArcGIS Security Scan Report - 06/30/25

uc2025.esri.com (11.5)

Potential security items to review

<u>Id</u>	<u>Severity</u>	<u>Property Tested</u>	<u>Scan Results</u>
PS01	Critical	Proxy restrictions	The portal proxy capability is unrestricted. This should be limited to trusted web addresses. More information Suggested "allowedProxyHosts" based on existing maps, services, and configuration settings: droughtmonitor.unl.edu, earthquake.usgs.gov, sampleserver6.arcgisonline.com
PS14	Important	Default print service status	The default print service distributed with your portal is currently enabled. Since the portal is already configured to use a print service from ArcGIS Server, it is recommended to disable the default print service. More information
PS03	Important	Portal services directory	The portal services directory is accessible through a web browser. This should be disabled to reduce the chances that your portal items, services, web maps, groups, and other resources can be browsed, found in a web search, or queried through HTML forms. More information
PS06	Recommended	Anonymous access	To prevent any user from accessing the Home application without first providing credentials to the portal, it is recommended that you configure your portal to disable anonymous access. More information
PS09	Recommended	Cross-domain requests	Cross-domain (CORS) requests are unrestricted. To reduce the possibility of an unknown application accessing a shared portal item, it is recommended to restrict cross-domain requests to applications hosted only in domains that you trust. More information
PS17	Recommended	KML service status	The KML service is used by the portal to communicate with KML endpoints. If no KML endpoints will be accessed through any web maps on the portal, it is recommended to disable this service. More information
PS16	Recommended	RSS service status	The RSS service is used by the portal to communicate with GeoRSS feeds. If no GeoRSS feeds will be accessed through any web maps on the portal, it is recommended to disable this service. More information

Sikkerhed I ArcGIS Enterprise - Best Practice

- Hosted Feature Service Views

UC_Demo

OverviewDataVisualizationSettings

Edit thumbnail



Add to Favorites

Add a brief summary about the item.

 Feature layer (hosted) by mortenm@GISTEK

Item created: Sep 15, 2025 Item updated: Sep 15, 2025 View count: 0

Description

Add an in-depth description of the item.

Create View Layer

1. Choose layers

Select the layers to be included.

2. Define view (optional)

Decide what data to show.

Layer definitions

UC_Demo

Add definitions

Create a filtered view of your layer using attributes, by drawing a shape, or by using a shape from another layer.

[More about view layers](#)

Add filter

Area of interest



Delete area to start over.

Fields

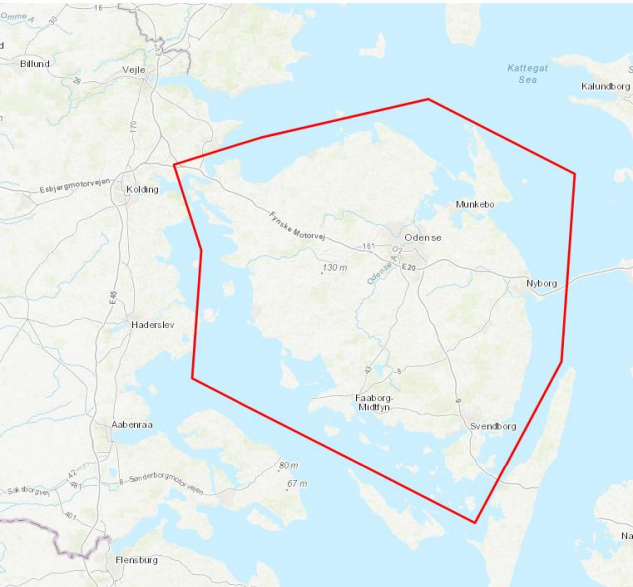
3/4

Select fields

OBJECTID

globalid

Name



Edit

Open in Map Viewer

Open in Scene Viewer

Open in ArcGIS Desktop

Publish

Create View Layer

Choose the method for creating the view layer.

 View layer

Create a view of this layer.

 Joined view layer

Create a view by joining data from another layer or table to this layer.

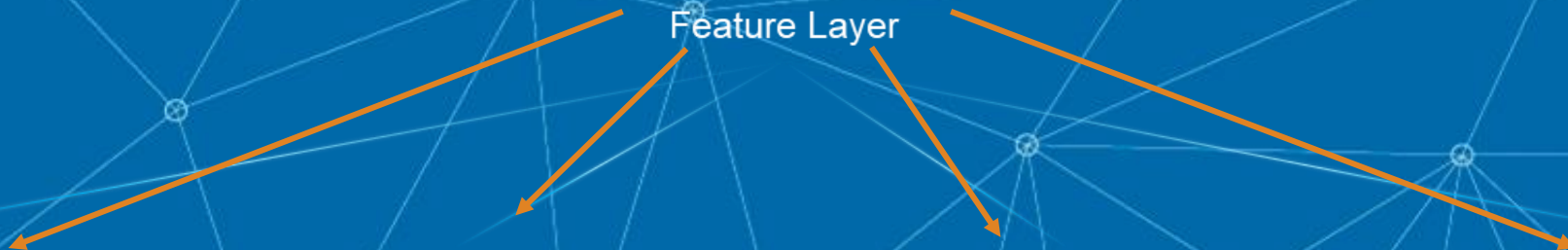
Edit

Low

High



Parent Hosted
Feature Layer



Public Submitters View

- Query disabled
- Add only
- Shared with public



Mobile Offline View

- Add only
- Enable sync
- Webmap offline areas
- Shared with mobile group



Approval View

- Query enabled
- Update only
- Shared with QA group



View Only View

- Configured with current user keyword - **New!**
- Filtered by Status and logged in user
- View only
- Shared with org

Sikkerhed I ArcGIS Enterprise - Best Practice

- Delingsrestriktioner

Security

Policies

HTTPS

Allow access to the portal through HTTPS only. ☒

Access and permissions

Allow anonymous access to your portal. ☒

Allow members to edit biographical information and who can see their profile. ☒

Allow users to create new built-in accounts. ☐

Sharing and searching

Members who are not administrators can make their content, groups, and profile public. ⓘ ☒

Show social media links on item and group pages. ☐

Sikkerhed I ArcGIS Enterprise - Best Practice

• Feature Layer Security and Editing

Data Source

Editing

☒ Enable editing

☐ Keep track of changes to the data (add, update, delete features).

☐ Keep track of who edited the data (editor name, date and time).

☐ Enable Sync (required for offline use and collaboration).

• Who can edit features?
Share the layer to specific groups of people, the organization or publicly via the Share

• What kind of editing is allowed?

☐ Add

☐ Delete

☐ Update

• What features can editors see?

☐ Editors can see all features

☐ Editors can only see their own features (requires editor tracking)

☒ Editors can't see any features, even those they add

• What features can editors edit?

☒ Editors can edit all features

☐ Editors can only edit their own features (requires editor tracking)

• Who can manage edits?

- You
- Administrators
- Data curators with the appropriate privileges

Supports Query with historic moment: false

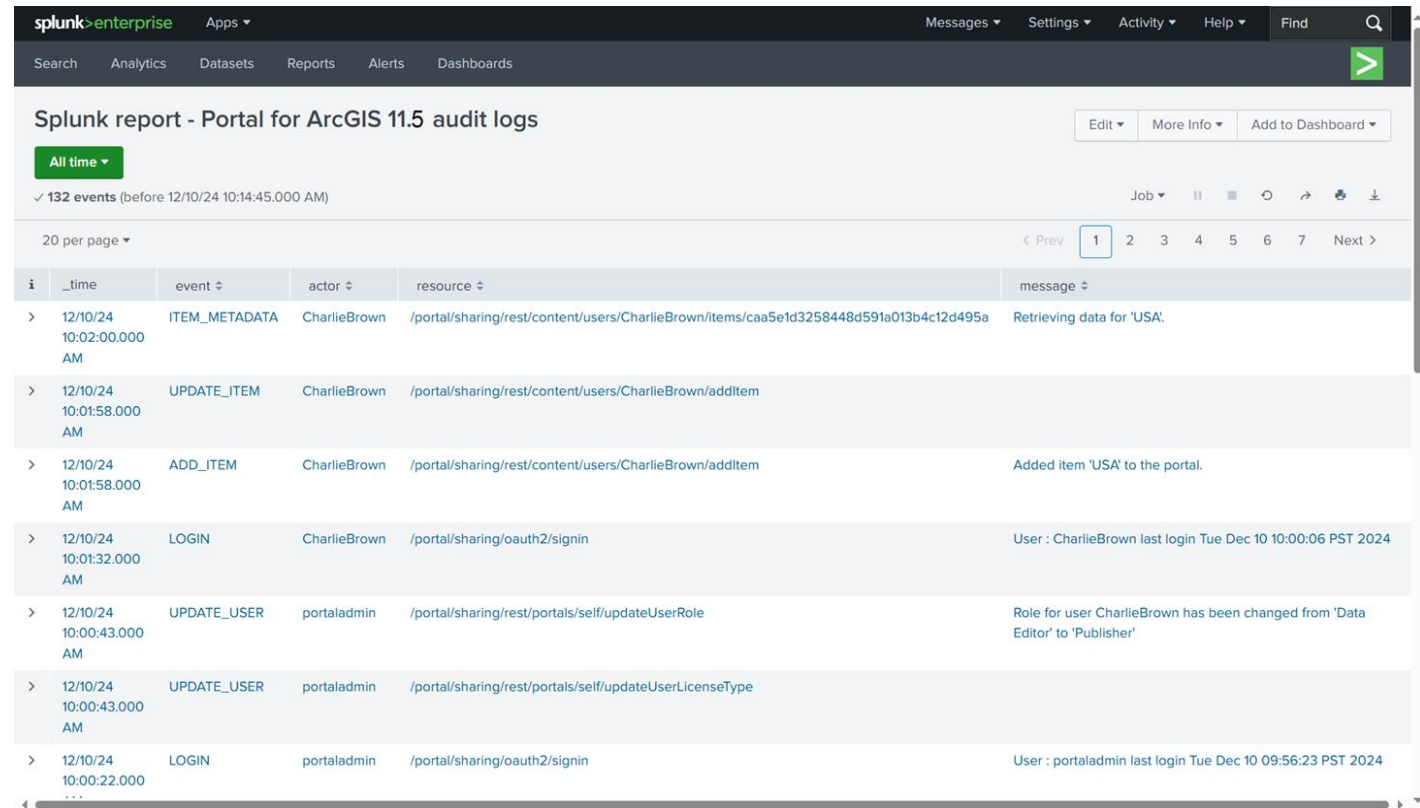
Supports Coordinates Quantization: true

Child Resources: [Field Groups](#) [Contingent Values](#)

Supported Operations: [Query](#) [Query Attachments](#) [Query Analy](#)
[Metadata](#) [Update Metadata](#)

Sikkerhed I ArcGIS Enterprise - Best Practice

- Forbedret log – Audit logs



Splunk report - Portal for ArcGIS 11.5 audit logs

✓ 132 events (before 12/10/24 10:14:45.000 AM)

20 per page

i	_time	event	actor	resource	message
>	12/10/24 10:02:00.000 AM	ITEM_METADATA	CharlieBrown	/portal/sharing/rest/content/users/CharlieBrown/items/caa5e1d3258448d591a013b4c12d495a	Retrieving data for 'USA'.
>	12/10/24 10:01:58.000 AM	UPDATE_ITEM	CharlieBrown	/portal/sharing/rest/content/users/CharlieBrown/addItem	
>	12/10/24 10:01:58.000 AM	ADD_ITEM	CharlieBrown	/portal/sharing/rest/content/users/CharlieBrown/addItem	Added item 'USA' to the portal.
>	12/10/24 10:01:32.000 AM	LOGIN	CharlieBrown	/portal/sharing/oauth2/signin	User : CharlieBrown last login Tue Dec 10 10:00:06 PST 2024
>	12/10/24 10:00:43.000 AM	UPDATE_USER	portaladmin	/portal/sharing/rest/portals/self/updateUserRole	Role for user CharlieBrown has been changed from 'Data Editor' to 'Publisher'
>	12/10/24 10:00:43.000 AM	UPDATE_USER	portaladmin	/portal/sharing/rest/portals/self/updateUserLicenseType	
>	12/10/24 10:00:22.000 ...	LOGIN	portaladmin	/portal/sharing/oauth2/signin	User : portaladmin last login Tue Dec 10 09:56:23 PST 2024

Spørgsmål?



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mortenm@geoinfo.dk