

Torsdags Tech Talks



Dialog om nyheder fra Esri, fif fra supporten og dine spørgsmål

Sidste torsdag i hver måned

Torsdags Tech Team

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1. Velkommen til Torsdags Tech

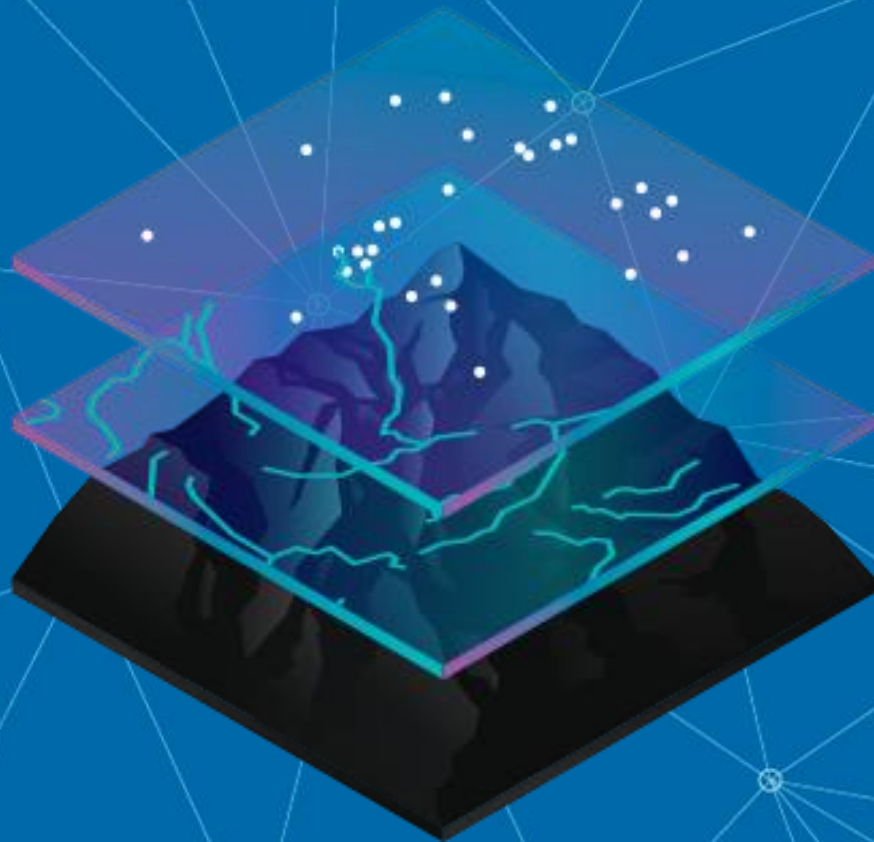
- Kommende MOOCS og Training Seminars fra Esri
- Esri User Conference d. 14.-18. Juli '25
- ArcGIS kurser hos Geoinfo

2. Nyt fra supporten:

- Patches og releases
- WMS og WMTS tjenester i ArcGIS
- API Key credentials
- Hosted Feature Layers med definition queries
- Support for ArcGIS Pro 2.9 udgør

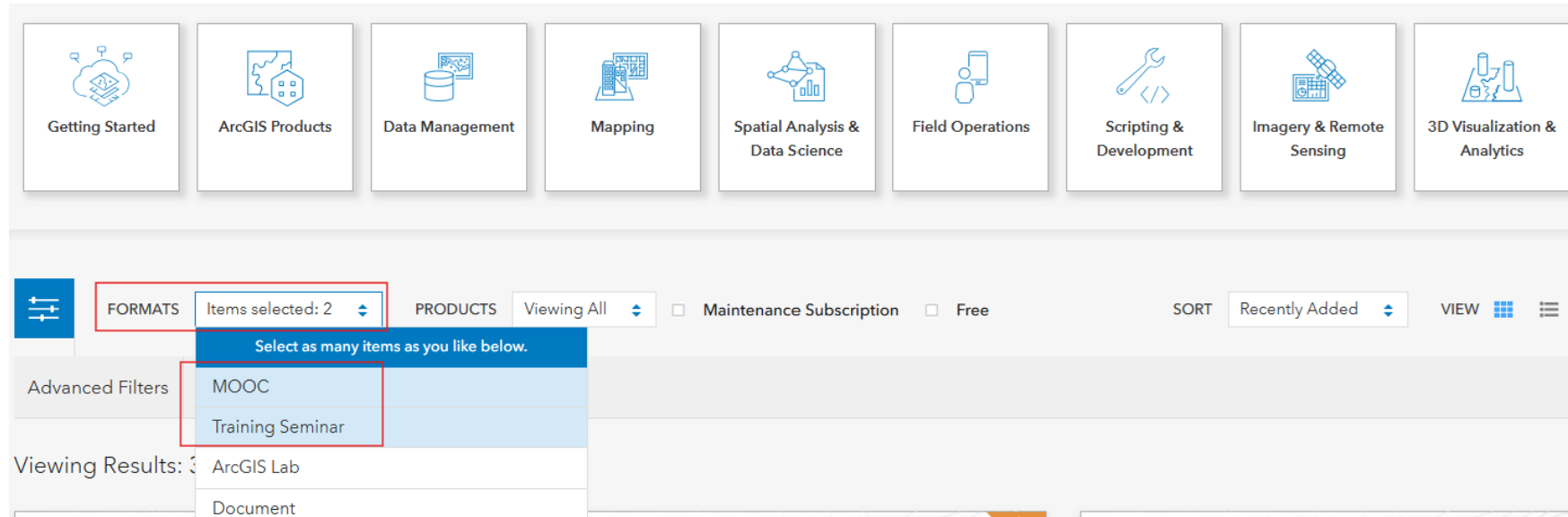
3. ArcGIS indlæg

- Opgradering til ArcGIS Enterprise 11.4/11.5 - godt at vide
- 3 vigtige sikkerhedstiltag i ArcGIS Enterprise



ArcGIS Kompetencer Esri Academy

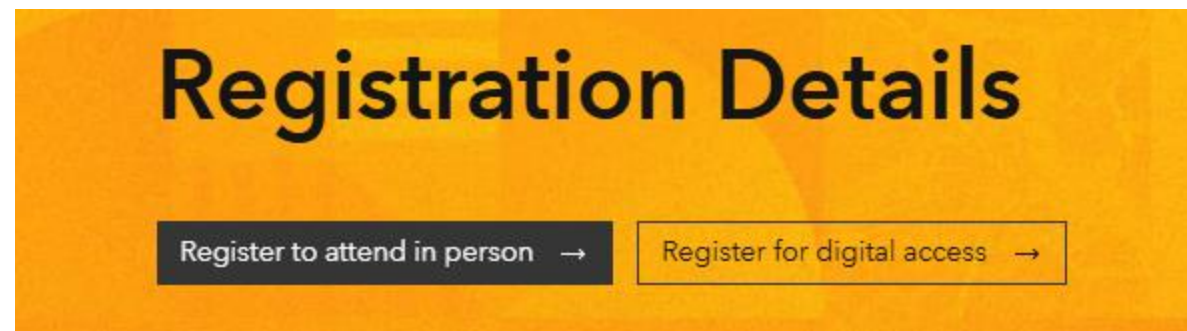
www.esri.com/training/catalog/search



- **MOOC – Massive Open Online Courses**
 - "Cartography" d. 27. Aug. 2025
 - "Spatial Data Science: The New Frontier in Analytics" d. 17. sept. 2025
 - "The ArcGIS Imagery MOOC: Foundations and Frontiers" d. 22. okt. 2025
- **Esri Training Seminars**
 - Esri webinarer: Softwares, funktionaliteter og workflows

Esri User Conference 14. - 18. juli San Diego

Læs mere på
[Esris hjemmeside](#)



Complimentary Digital Access

Registration for digital access to the conference is complimentary if you are current on your maintenance plan or subscription, including users with ArcGIS for Personal Use licenses, distributors, and partners. Digital access is included with all in-person registrations.

No Cost

Kursusoversigt 2025

KURSUS	Antal dage	Juli	August	September	Oktober	November	December
ArcGIS Pro, desktop - GIS-specialisten							
Introduktion til GIS med ArcGIS (GISA)	2			03. - 04.			
ArcGIS Pro: Essentielle Arbejdsgange (APEW)	3			09. - 11.	21. - 23.*		09. - 11.
Migrering fra ArcMap til ArcGIS Pro (PROM)	2						
Håndtering af Geografiske Data i ArcGIS (GDAT)	2			24. - 25. (Thorshavn)			
Opret og Rediger Data i ArcGIS Pro (EDAP)	2					03. - 04.	
Spatial Analysis med ArcGIS Pro (SNAP)	3		25. - 27.***				
Håndtering af Lidar Data med ArcGIS (LIDR)	1						
Image Analysis with ArcGIS Pro (IMAP)	2						
Kartografi og visualisering med ArcGIS (VISA)	2						
Working with Utility Networks in ArcGIS (UTIL)	2					19. - 20.*	
Data håndtering							
Deploying and Maintaining a Multiuser Geodatabase (MMGD)	2						
Configuring Branch Versioning in ArcGIS (BRAV)	2				30.*		
ArcGIS Online og web apps							
ArcGIS Online: Essentielle Arbejdsgange (AGON)	1						
Arbejd med ArcGIS Dashboards (DBRD)	2						
Opret og konfigurer applikationer i ArcGIS Online (FIDA)	2				28. - 29.		
Story Maps og Formidling med ArcGIS (STAR)	1						
Byg Web Applikationer med ArcGIS Experience Builder (XBLD)	2					05. - 06.	
ArcGIS Enterprise – Systemadministratoren							
Sharing Content to ArcGIS Enterprise (ESHA) (niveau 1)	2			16. - 17.			
ArcGIS Enterprise: Konfigurer et Base Deployment (EBAS) (niveau 2)	2						
ArcGIS Enterprise: Administrative Arbejdsgange (EADM) (niveau 3)	3						02. - 04.*
Scripting kurser							
Creating Python scripts for ArcGIS (PYTS)	3				07. - 09.		
Introduktion til Arcade (ArcGIS Online) (ARCA)	2						

Nyt fra supporten



Georgina Scholes

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ArcGIS Enterprise Patches

ArcGIS Enterprise 11.5

- <https://support.esri.com/en-us/patches-updates/2025/arcgis-enterprise-11-5-announcement>

ArcGIS Workflow Manager Server 11.2 Patch 2

- <https://support.esri.com/en-us/patches-updates/2025/arcgis-workflow-manager-server-11-2-patch-2>

Portal for ArcGIS Security 2025 Update 2

- 11.4, 11.3, 11.2, 11.1, og 10.9.1
- <https://support.esri.com/en-us/patches-updates/2025/portal-for-arcgis-security-2025-update-2-patch>

ArcGIS Server 11.5 Calculate Field Patch

- Haster ikke, med mindre I har gp-services som anvender Calculate Field I 11.5
- <https://support.esri.com/en-us/patches-updates/2025/arcgis-server-11-5-calculate-field-patch>

ArcGIS Server 11.3 Pipeline Referencing / Roads & highways Patch 2

- <https://support.esri.com/en-us/patches-updates/2025/arcgis-server-11-3-arcgis-pipeline-referencing-arcgis-roads-and-highways-patch-2>

ArcGIS Server 11.4 Pipeline Referencing / Roads & Highways Patch 1

- <https://support.esri.com/en-us/patches-updates/2025/arcgis-server-11-4-arcgis-pipeline-referencing-arcgis-roads-and-highways-patch-1>

ArcGIS releases

- [ArcGIS Online juni 2025](#)
 - 3 opdateringer om året
 - Fokus på nye bugs efter release
 - Nye features:
 - AI assistants (preview)
 - Drag and drop i Map Viewer
 - Gemme map image layers
- [ArcGIS Pro 3.5.2](#)
 - Calculate Field problem rettet
 - Opdatere fra programmet er tilgængelig igen

WMTS og WMS tjenester i ArcGIS

- **Forskel i sikkerhedsmetoder:**
 - Dataforsyning: token
 - Datafordeler: brugernavn og password
- **Indlæses på forskellige måder:**
 - Datafordeler tjenester (med DAF i URL): indlæses i ArcGIS Online / Portal med credentials i URL eller custom paramatere
 - Gælder også videreudstillinger via Dataforsyning
 - Dataforsynings tjenester: skal have token som custom parameter

	Dataforsyningen				Datafordeler DAF	
	WMS	WMTS	WMS - viderestilles fra DAF	WMTS - vidrestillet fra DAF	WMS	WMTS *
Arcgis PRO server connection	URL	URL	URL	URL	URL	URL
ArcGIS online	Custom parameter	Custom parameter	URL eller Custom	URL eller Custom	URL eller custom	Custom parameter

ArcGIS Pro 2.9 og 3.0

Support udgår

- ArcGIS Pro version 2.9 er ikke længere understøttet af support
 - Der bliver ikke fikset bugs i den version
 - Ikke flere patches
 - Supporten kan ikke hjælpe med problemer
- ArcGIS Pro 3.0 bliver retired per 1. juli 2025

Version	Release Date	General Availability	Mature	Retirement
2.9.14* 	November 21, 2024	Nov 21, 2024–Nov 20, 2024	Nov 21, 2024–May 31, 2025	June 01, 2025
3.0.6 	August 24, 2023	Aug 24, 2023–Dec 31, 2023	Jan 01, 2024–Jun 30, 2025	July 01, 2025

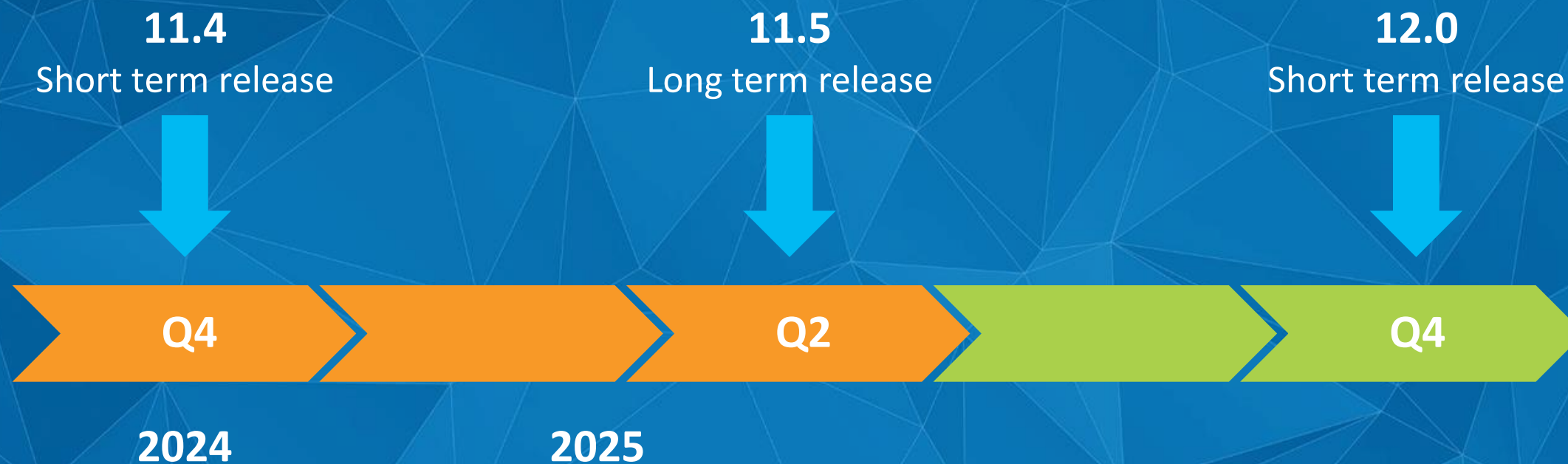
<https://support.esri.com/en-us/products/arcgis-pro/life-cycle>

Opgradering til ArcGIS Enterprise 11.4 og 11.5 - godt at vide



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Forberedelse til version 12.0



Vi siger farvel til

JavaScript 3



License Manager



Tile Cache
Data Store



Map Viewer
Classic



ArcGIS
Configurable Apps



ArcGIS
Web AppBuilder

11.4 og 11.5

12.0

License Manager erstattes af Portal for ArcGIS

- **Sidste version: 11.3**
 - ArcGIS Enterprise 11.4 og 11.5 bruger ikke længere License Manager under tildeling af Named User-licenser til ArcGIS Pro.
- **Hvad med sikkerhed?**
 - Licensen tildeles via almindelig krypteret https-kommunikation.
- **Hvordan migrerer I bedst?**
 - Ved opgradering til ArcGIS Enterprise 11.4 eller 11.5 vil der automatisk skiftes til den nye metode til at udstede licenser



**License
manager**



**Portal for
ArcGIS**

Licenser

- Licens Manager udgår i 11.4
- ArcGIS Pro Named User licensering igennem portal URL, ikke License Managerens MAC adresse
- Editering af URL i licens fil i myEsri muligt
- Ved forkert URL virker portalen stadig, men licensen kan ikke trækkes i ArcGIS Pro
- Licens Manager kan afinstalleres, medmindre man bruger den til concurrent licenser

1 Product and Licenses 2 User Types 3 Add-on ArcGIS Pro License and ArcGIS Pro Extensions 4 License Management 5 End User 6 Review

Use License File Configuration

License Management

Please enter your [ArcGIS Enterprise organization URL](#) below. The URL specified must match your deployment's ArcGIS Enterprise organization URL to provide members access to their assigned ArcGIS Pro, ArcGIS Drone2Map, and ArcGIS AllSource licenses.

Public URL for your ArcGIS Enterprise portal

Save Configuration Cancel < Previous Next >

```
7D7D54E5DD97691EC6FEE082F99BC5ACDC2A999D2EBBE0D8C7FEC3D9841292C00C6BA84F77CE121C8CBC169C608CFD17E
3A4"}]]}},"portalCapabilities":[],"licenseManagement":null,"portalURL":
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JhsVFgpRWwAHDARWNQtBZ20kfwUgFCgcCDZ5TyOWGhsPMYkiABkRAjhCZmg6EQhTVQ4jAWNvVWkDEhADJCEAHCFNM18HLE0BI
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"QHTXJM+SgGCcZ8nIyOe8HKfgaUjsHRO9797MUNwdkQ8AjmTyVcaQOz6YTLMFRH2zrvZJpuej10C0Ukn/PbTqvH1y0SnqR85r
qJ2VS1FRrgPmF1k="}
```

Tile cache data store erstattes af Object data store

Hvad ændres?

Hvad betyder
det for jer?

Hvad skal I
gøre nu?

- Tile cache data store udfases
- Ny scene layer-publicering kræver Object data store
- Eksisterende scene layers i tile cache data store bliver read only
- Object data store bliver krav i base deployment
- Færre datalagre → simplere infrastruktur
- Cloud ready: S3 / Azure Blob kan bruges
- Opsæt Object data store ved opgradering til 11.4 eller 11.5
- Brug værktøjer til at migrere scene layers
- Husk: 11.5 er sidste version med Tile cache data store support

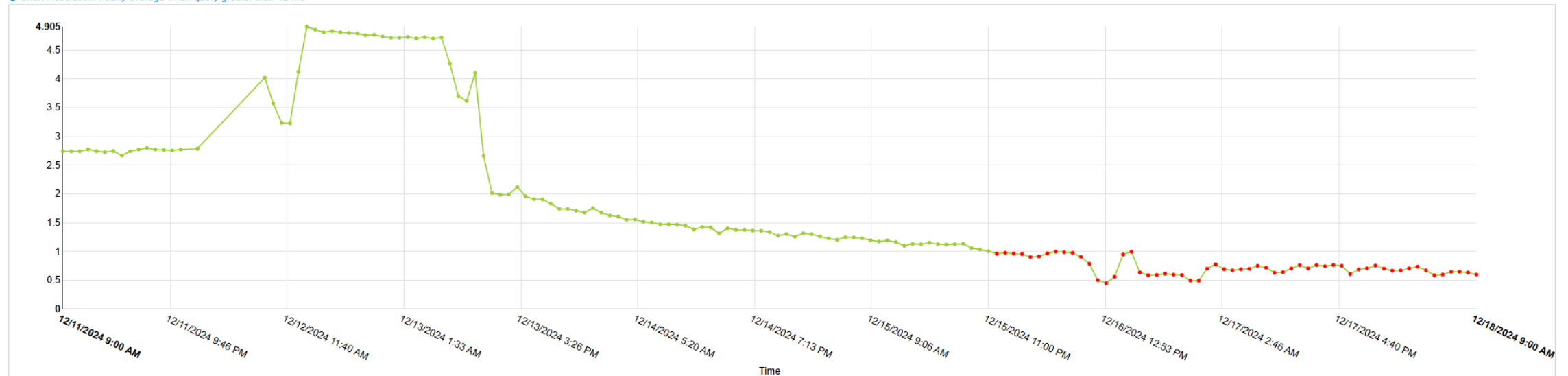


Object Data Store

- Object Data Store erstatter Tile Cache Data Store
- Husk ny port 29879
- Migreringstool i cmd tools
- Skal I bestille en ny server? [Ifølge dokumentationen; ja](#), men hvad er jeres behov?

Available Memory GB

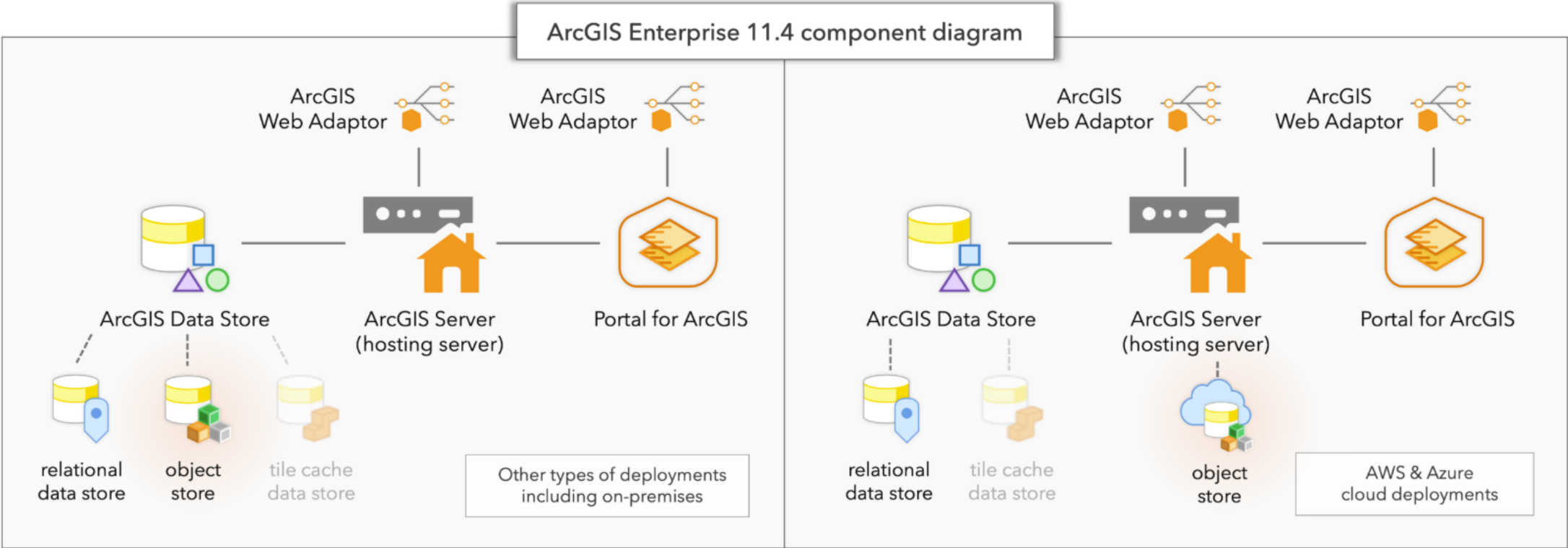
Chart Resolution: hourly average when query greater than 12 hrs



<https://www.esri.com/arcgis-blog/products/arcgis-enterprise/administration/arcgis-enterprise-migrating-to-the-object-store/>

Object store	Single instance	Cluster	Single instance mode supports a single machine. Cluster mode must be deployed with three or more machines.
You cannot change modes after deploying an object store.			

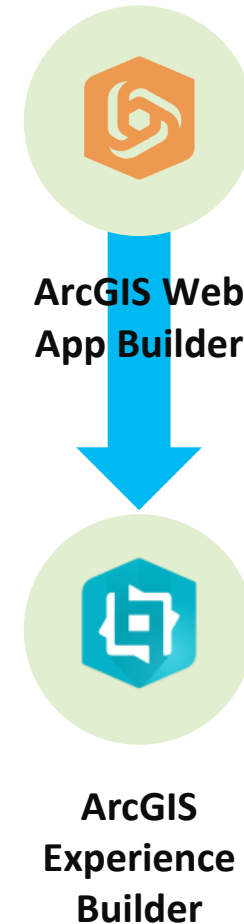
☐	Status	File Name	Type			
☐	?	ArcGIS_Data_Store	Relational			
☐	?	ArcGIS_Data_Store	Managed Object			
☐	?	ArcGIS_Data_Store	Tile Cache			



Deployments on AWS and Azure can use a cloud object store as an alternative to the ArcGIS Data Store object store.

ArcGIS Web App Builder erstattes af ArcGIS Experience Builder

- **Sidste version: 11.5**
 - Fra 12.0: Web AppBuilder vil ikke være tilgængelig, du kan ikke se, lave eller redigere WAB apps.
- **Hvad med sikkerhed og fejlrettelser?**
 - Web AppBuilder er i vedligeholdelsestilstand
 - Kun kritiske sikkerhedsopdateringer, ingen nye funktioner.
- **Hvordan migrerer I bedst?**
 - Brug [funktionalitets matrix](#) til planlægge migrering
 - Brug ny Experience Builder Express Mode (11.5)

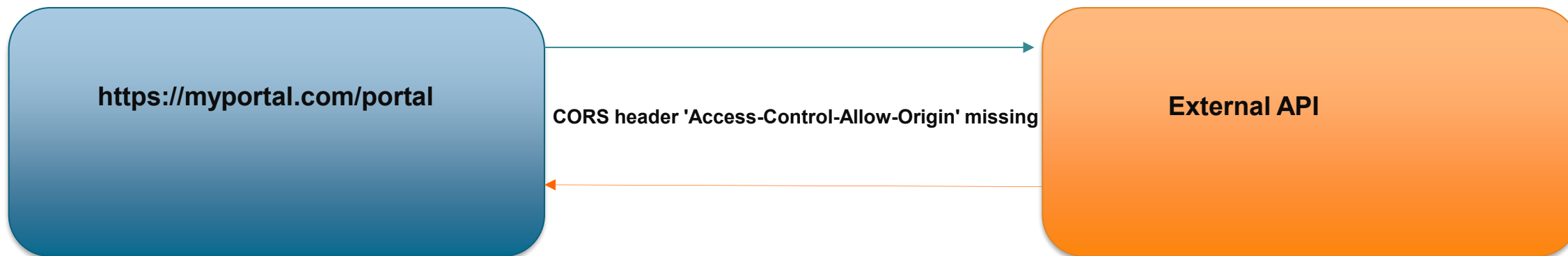


⚠️ 2025 Top 3 New Critical Security Recommendations ⚠️

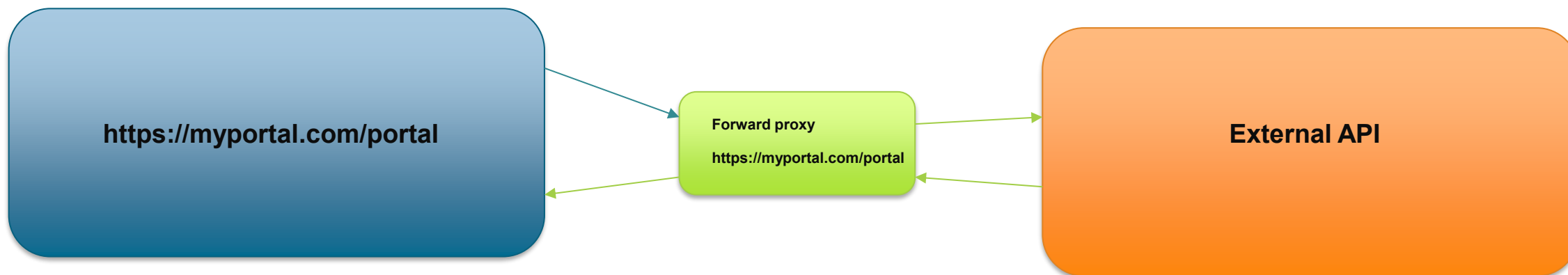


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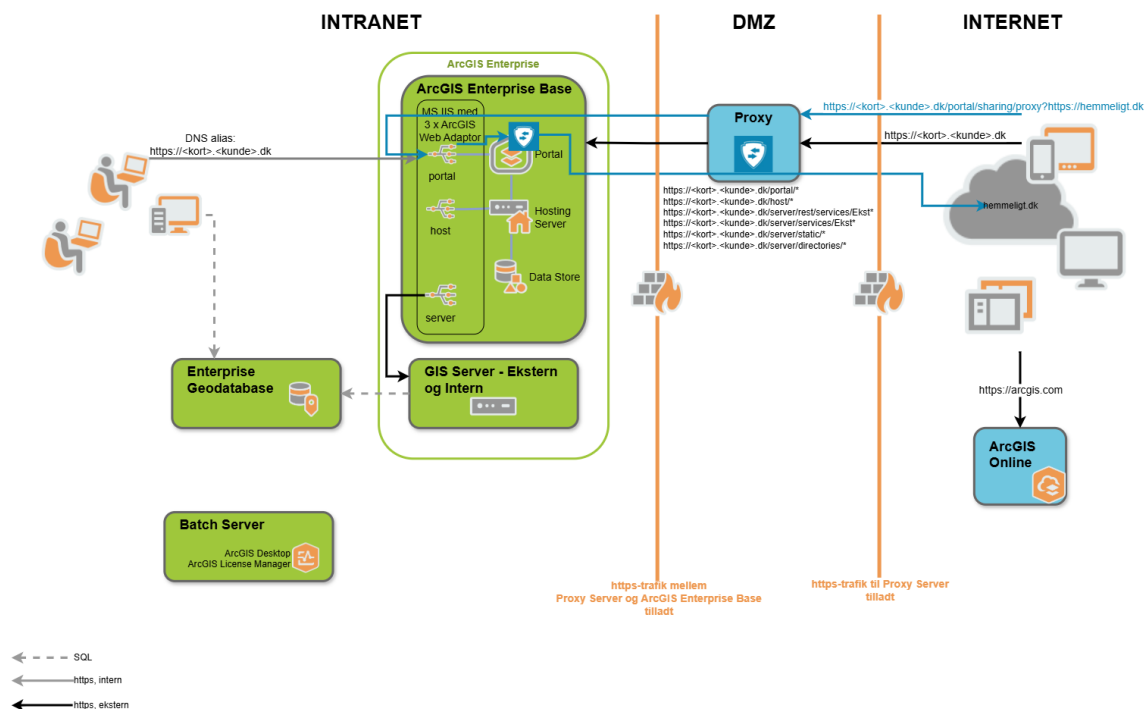
1. Configure Portal for ArcGIS Proxy Allow List (allowedProxyHosts)



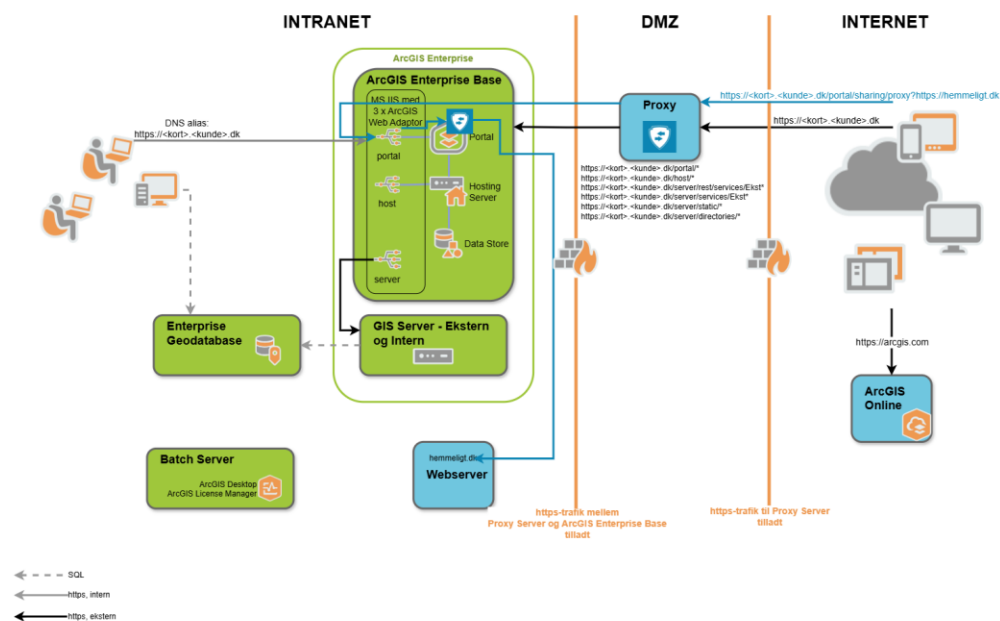
Access to fetch blocked by CORS policy



Systemlandskab - Brugerinitialiserede forespørgsler - 2 x ArcGIS Server med isolering af fortrolige data via proxy-regel



Systemlandskab - Brugerinitialiserede forespørgsler - 2 x ArcGIS Server med isolering af fortrolige data via proxy-regel



1. Configure Portal for ArcGIS Proxy Allow List (allowedProxyHosts)

- 1 Open a web browser and sign in to the [Portal Administrator Directory](#) as an Administrator of your organization. The URL is formatted as `https://webadaptorhost.domain.com/webadaptorname/portaladmin`.
- 2 Click **Security > Config > Update Security Configuration**.
- 3 In the **Configuration** field, add the `allowedProxyHosts` property and specify the list of approved addresses, for example:


```
{
  "disableServicesDirectory": false,
  "enableAutomaticAccountCreation": false,
  "allowedProxyHosts": "gisserver1.domain.com,gisserver2.domain.com"
}
```

Note:
Use the format `(.*)domain.com` to allow proxy requests to all machines within a specified domain. Use wildcards (*) with caution; unauthorized users may inadvertently be granted access to restricted machines.
- 4 Click **Update Configuration**.

- **CORS** = “Who can talk to my Portal from the browser?”
- **allowedProxyHosts** = “Who can my Portal talk to on behalf of the user?”

Portal Administrator Directory

[Home](#) > [Security](#) > [Config](#)

Security Configuration

Properties: `{"disableServicesDirectory":false,"enableAutomaticAccountCreation":true,"contentSecurityPolicy":{"home":{"frame-ancestors 'self';","apps":"","webgisServerTrustKey":"Uj7Km94Knf4Kz97GITpno5uY7KRAtIoroHSEjbJGXSI=","allowedProxyHosts":"www.dr.dk,(.*)geoinfo.dk,demo.geoinfo.dk"}}`

A map of Denmark showing major cities and transportation routes. The map includes labels for cities such as Skagen, Frederikshavn, Hjørring, Aalborg, Randers, Herning, Vejle, Kolding, Esbjerg, Silkeborg, Horsens, Fredericia, Kalundborg, Slagelse, Odense, Svendborg, Næstved, Nakskov, Schleswig, and Flensburg. The map also shows the Baltic Sea to the east and the North Sea to the west. A search bar and navigation controls are visible in the bottom right corner.

The screenshot displays the Chrome DevTools interface, specifically the Network and Console panels. The Network panel is at the top, showing a list of requests. The first five requests are all proxy requests to 'labapps.geodataonline.no/wmts/top...'. The Console panel is at the bottom, showing a 'Violation' for 'Forced reflow while executing JavaScript' and an 'Access to fetch at' error for 'https://www.arcegis.com/sharing/rest/content/...'.

Network Panel:

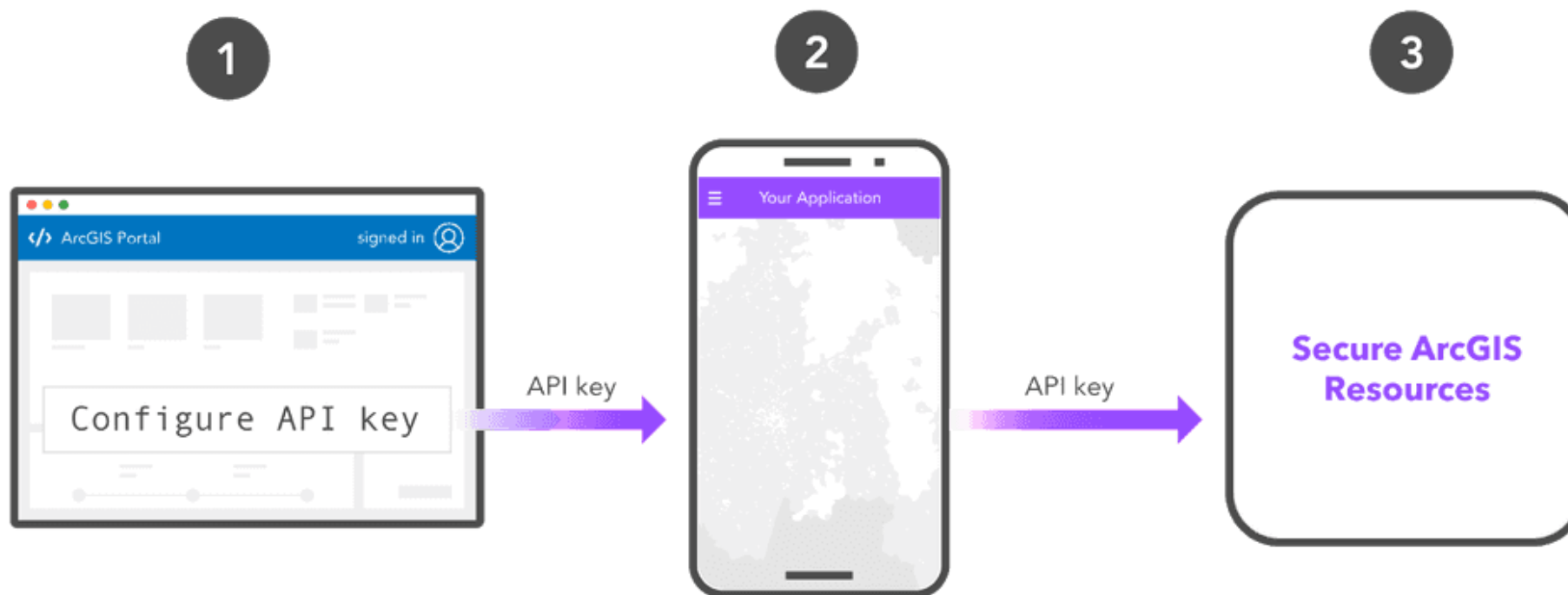
- Filter: proxy
- More filters: All, Fetch/XHR, Doc, CSS, JS, Font, Img, Media
- Big request rows, Overview, Group by frame, Screenshots
- Name column: proxy?https://openwms.statkart.no/skwmst1/wmts.t..., proxy?https://labapps.geodataonline.no/wmts/to..., proxy?http://labapps.geodataonline.no/wmts/top..., proxy?http://labapps.geodataonline.no/wmts/top..., proxy?http://labapps.geodataonline.no/wmts/top..., proxy?http://labapps.geodataonline.no/wmts/top...

Console Panel:

- 6 / 862 requests | 0.3 kB / 8,112 kB transferred | 0.0
- Console, AI assistance, What's new
- Filter: top
- All levels | 24 Issues | 5 | 19
- Violation: [Violation] Forced reflow while executing JavaScript took 31ms
- Error: Access to fetch at 'https://www.arcegis.com/sharing/rest/content/...' from origin 'https://114web.gistek.local' has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested resource.
- Error: GET https://www.arcegis.com/sharing/rest/content/... net::ERR_FAILED 504 (Gateway Timeout)

2. Remove legacy API Keys

- [Legacy API Keys](#) are inherently insecure as they are not scoped and never expire.



	API key credentials	API key (legacy)
Max number of keys (ArcGIS Location Platform account)	No limit	100 keys
Max number of keys (ArcGIS Online , cumulative across all organization members)	No limit	100 keys
Supported ArcGIS services	ArcGIS Location Services , Spatial analysis services , Portal service	ArcGIS Location Services
Item access privileges	Supported for all account types	Supported for ArcGIS Location Platform only
Max number of item access privileges	100 items per credential	100 items per key
API key expiration date	Configurable (Duration of up to one year)	Not configurable
API key rotation (?)	Supported	Not supported
ArcGIS Enterprise support	Supported in ArcGIS Enterprise >= 11.4	Not supported

- Check the scope
- Create new API key credentials
- Set the expiration date and referrers
- Select privileges
- Select Items
- Save the item
- Delete (legacy)

<https://developers.arcgis.com/documentation/security-and-authentication/api-key-authentication/tutorials/update-to-api-key-credentials/>

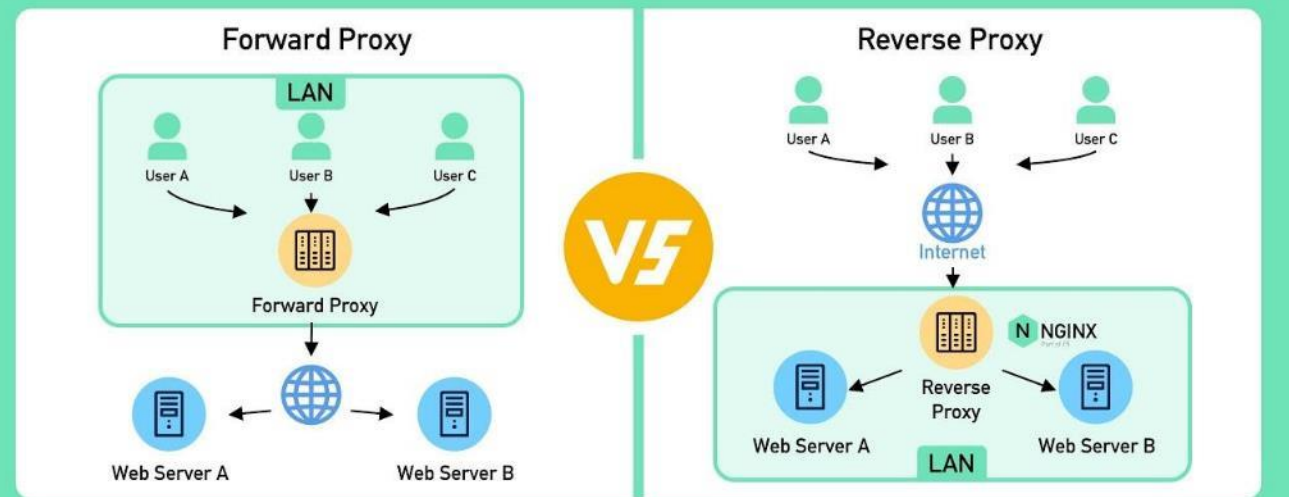
3. Avoid Forward Proxy Authentication

- Credentials exposed
- ArcGIS Enterprise skal ikke logge ind i Proxy med basic auth, men:
 - Identifier Enterprise maskiner med IP
 - Konfigurere firewall at tillade de IP adresser

```
portal.proxy.host=proxy.company.local  
portal.proxy.port=8080  
portal.proxy.username=myArcGISproxyUser  
portal.proxy.password=mySecretPassword
```



Forward Proxy vs. Reverse Proxy



Spørgsmål

Feedback på
Survey123: <https://arcg.is/1abv8j>

Tak for opmærksomheden

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