Upgrading your Deployment

Miles Phillips

2019 Esri Gulf Coast User Conference

esri

Session Agenda

- What and Why
- Before you upgrade
- Upgrading by Components
- Validation after Upgrading
- ArcGIS Enterprise Builder

What are Upgrades?

- Definition
- Maintains configuration
- Includes Server Roles and Apps

Why Upgrade?

- New features and functionality
- Supported life cycle
- Security vulnerability fixes
- Bug fixes
- Performance enhancements
- 3rd party dependencies

Why not Upgrade?

- 3rd party application dependencies
- Unsure of what will break
- Lack of resources
- No business need

Common Terms and Definitions

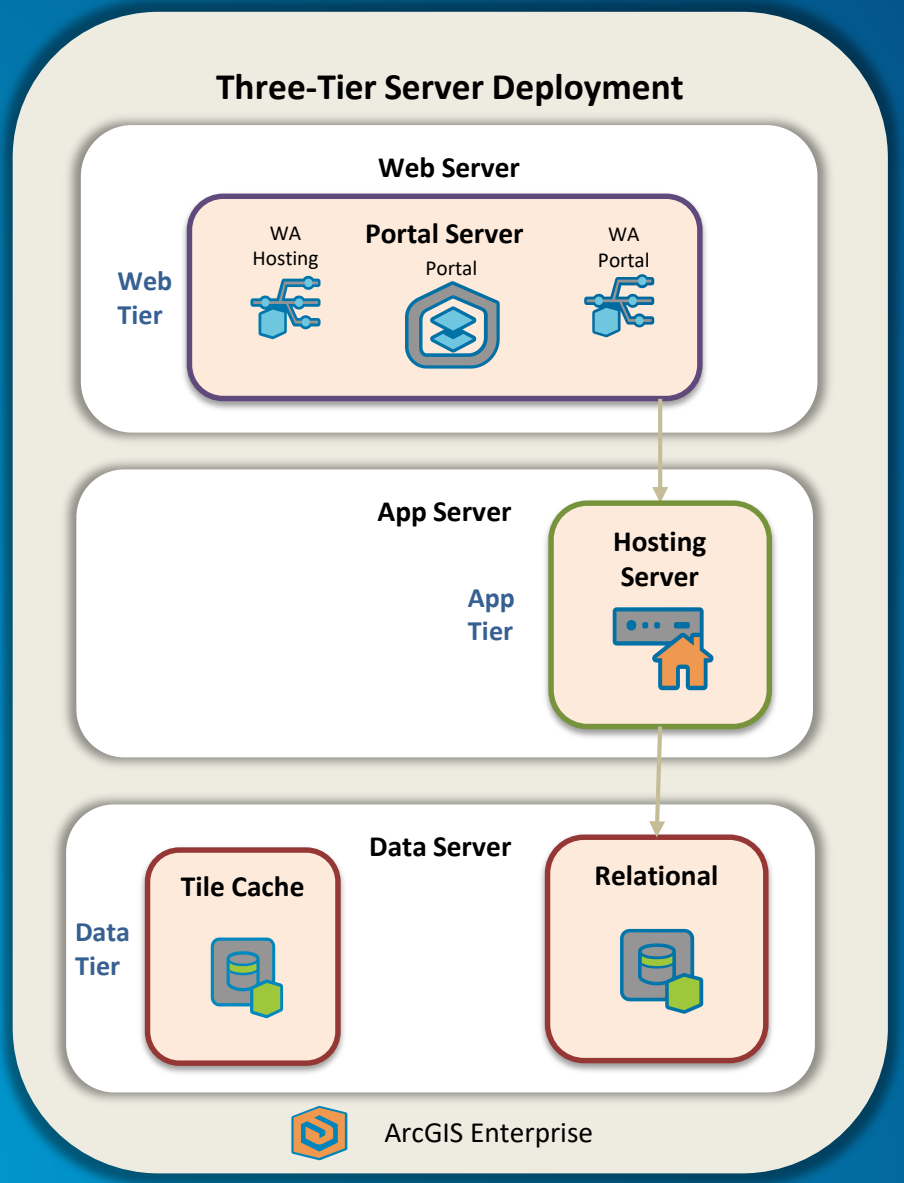
- In-Place Upgrade
- Uninstall / Install Upgrade
- Direct Upgrade
- Indirect Upgrade
- Post-Upgrade

Supported Versions

Upgrading To Upgrading From	10.2	10.2.1	10.2.2	10.3	10.3.1	10.4	10.4.1	10.5	10.5.1	10.6	10.6.1	10.7	10.7.1
10.1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
10.2		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
10.2.1			YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
10.2.2				YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
10.3					YES	YES	YES	YES	YES	YES	YES	YES	YES
10.3.1						YES	YES	YES	YES	YES	YES	YES	YES
10.4							YES	YES	YES	YES	YES	YES	YES
10.4.1								YES	YES	YES	YES	YES	YES
10.5									YES	YES	YES	YES	YES
10.5.1										YES	YES	YES	YES
10.6											YES	YES	YES
10.6.1												YES	YES
10.7													YES

*** 10.7.x - last release series to support direct upgrades from 10.2.x**

ArcGIS Enterprise Components



- Portal for ArcGIS
- Portal ArcGIS Web Adaptor
- ArcGIS Server
- ArcGIS Server Web Adaptor
- ArcGIS Data Store

Before You Upgrade…

- Read the documentation
- Download setups from MyEsri
- Download license JSON file from MyEsri
- Check application compatibility
- Record the Web Adaptor names
- And ….

Before You Upgrade…

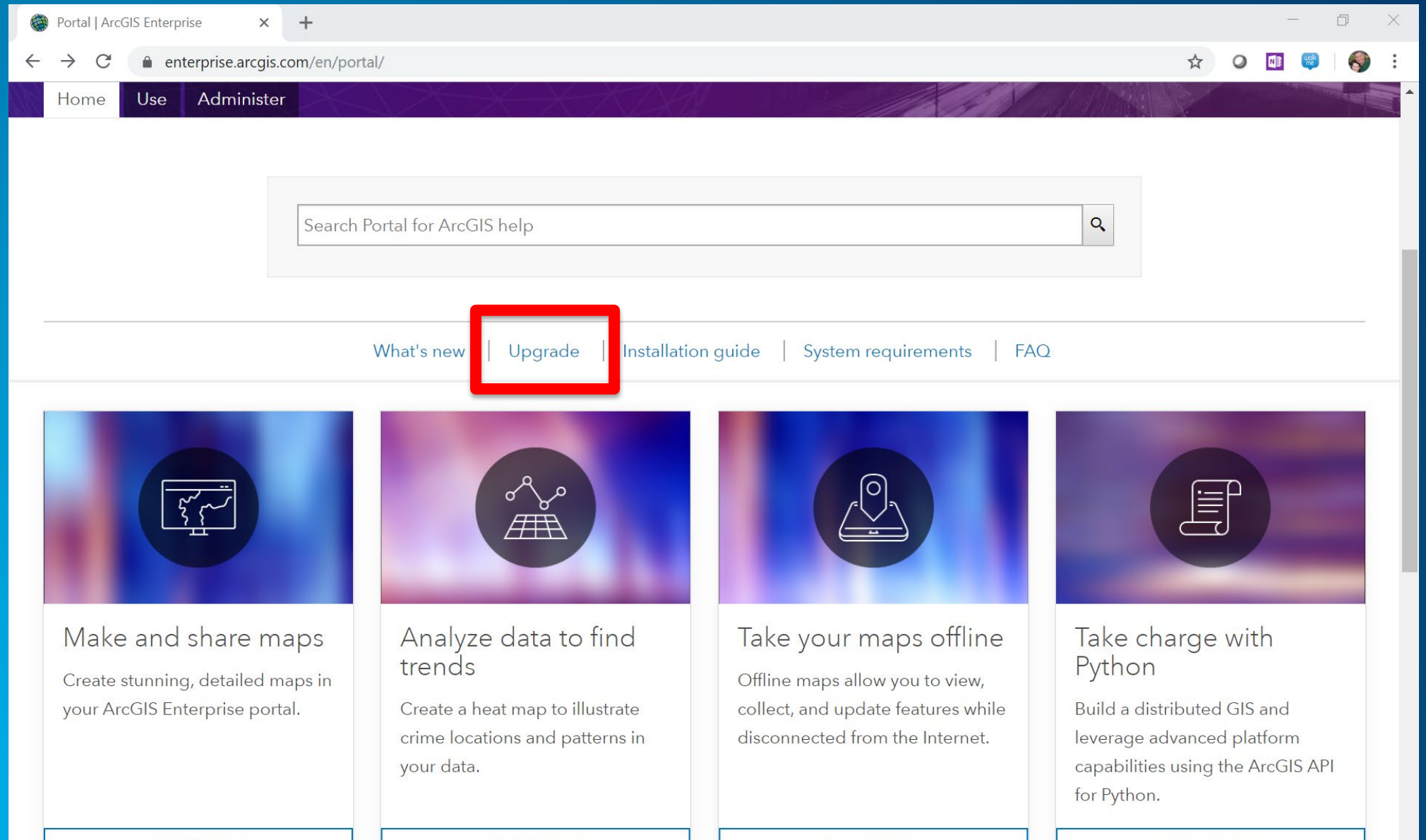
Backup!

Options

- Use WebGISDR tool to create a backup if available
- Tool by component
  - Portal -> WebGISDR
  - Server -> Backup utility
  - Data Store -> backupdatastore utility
- Backup of the content stores (*stop services first*)
  - C:\arcgisportal, C:\arcgisserver, C:\arcgisdatastore
- Take a snapshot of all environments for virtual machines

DO NOT UNFEDERATE!

Documentation - enterprise.arcgis.com

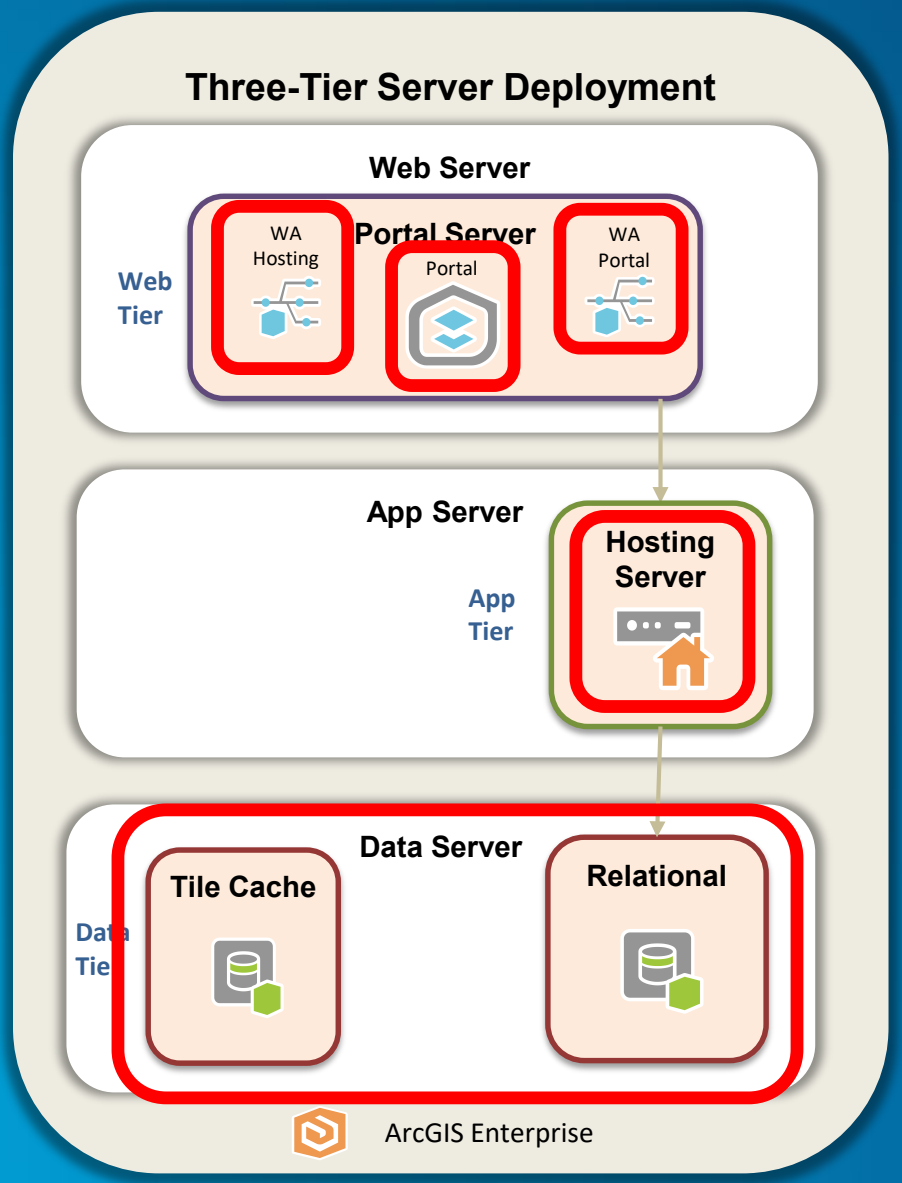


Recommended Order of Upgrades

1. Upgrade Portal for ArcGIS
2. Upgrade ArcGIS Web Adaptor (for Portal)
3. Upgrade the ArcGIS Server site serving as the portal's hosting server
4. Upgrade ArcGIS Web Adaptor (for Server)
5. ArcGIS Data Store (upgrade primary first, then stand-by)
6. Upgrade ArcGIS Server (any additional sites in the deployment)

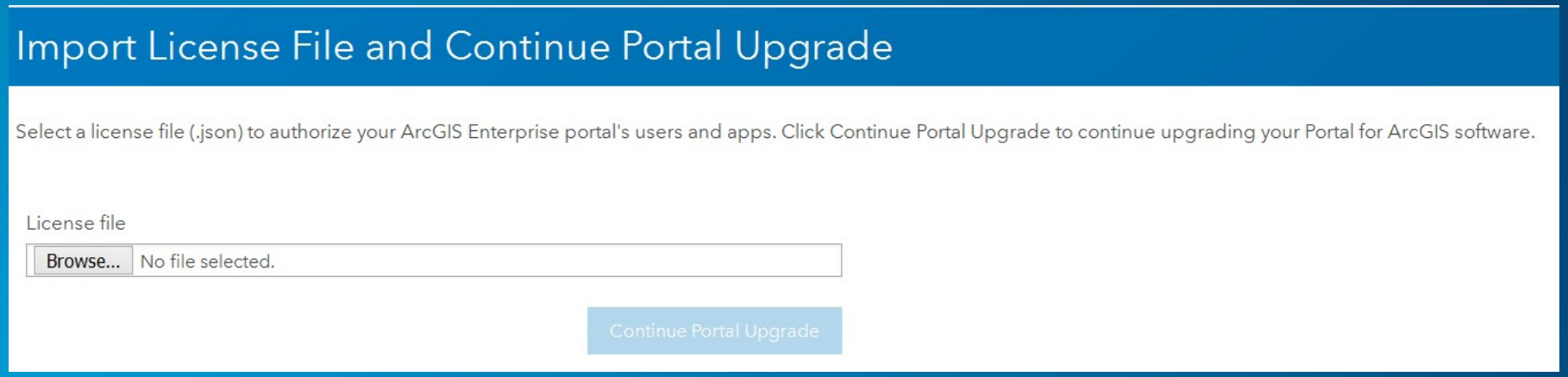
Upgrading through all releases is not necessary

ArcGIS Enterprise Components



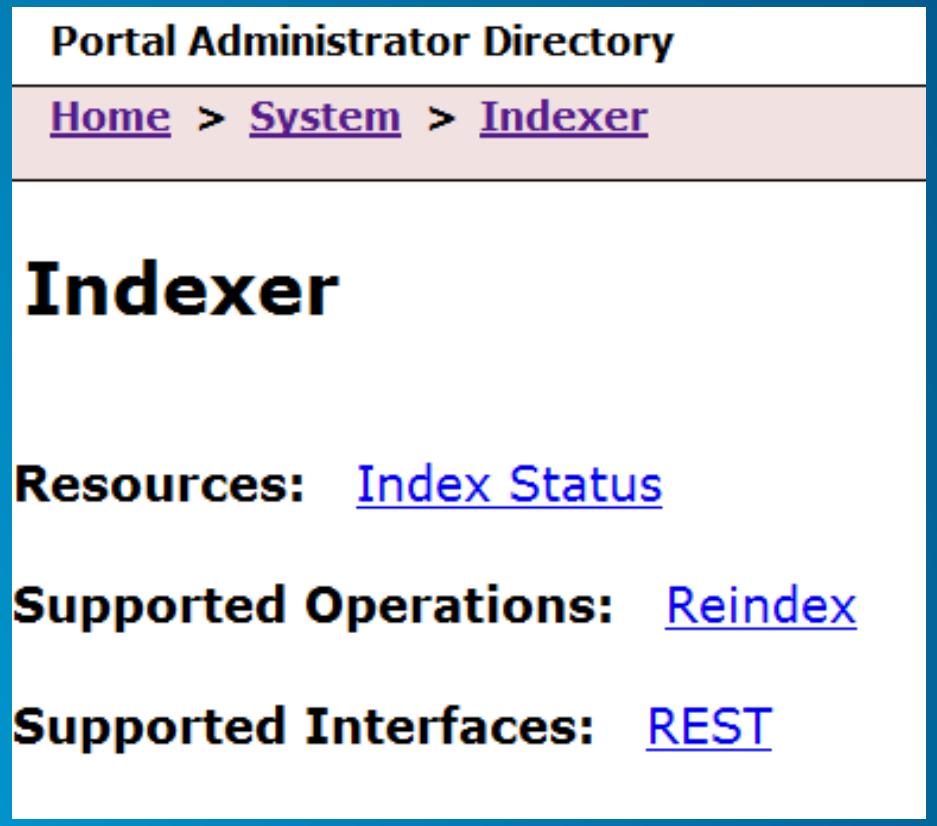
1. Portal for ArcGIS
2. Portal ArcGIS Web Adaptor
3. ArcGIS Server
4. ArcGIS Server Web Adaptor
5. ArcGIS Data Store

Upgrading Portal for ArcGIS



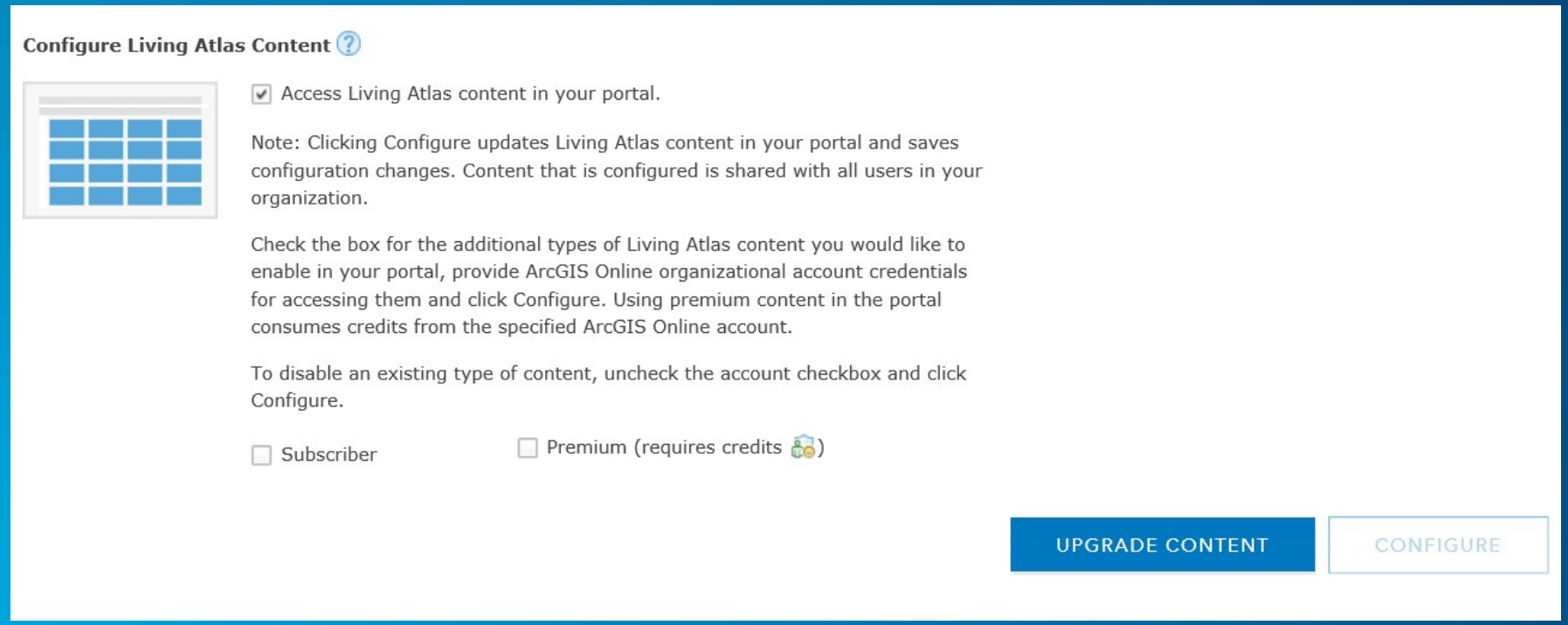
Upgrading Portal for ArcGIS

- If upgrading to a version earlier than 10.7, reindex



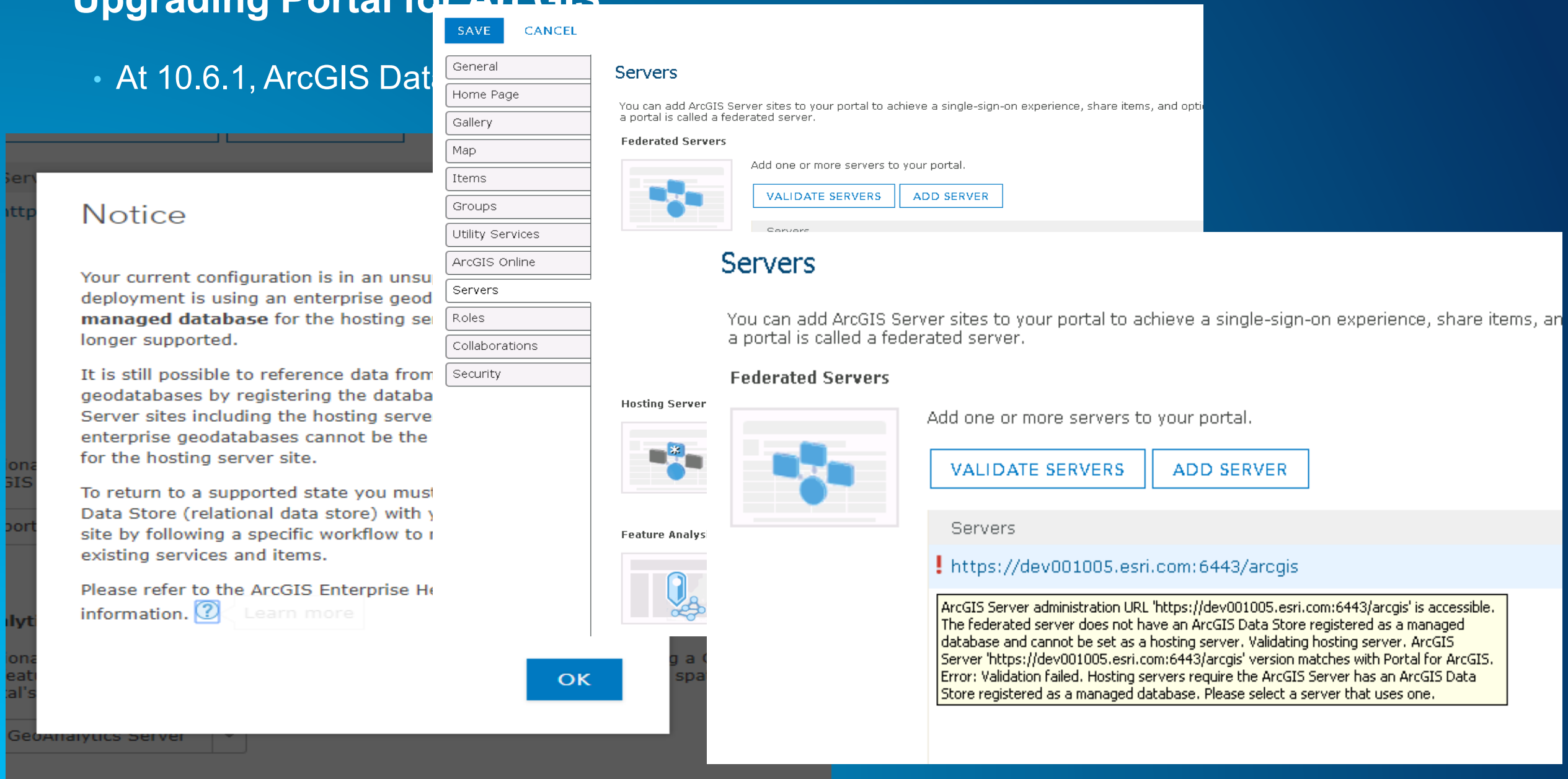
Upgrading Portal for ArcGIS

- For Living Atlas premium or subscriber content
  - At 10.7 Living Atlas content is upgraded during post-upgrade
  - Otherwise run the Living Atlas upgrade



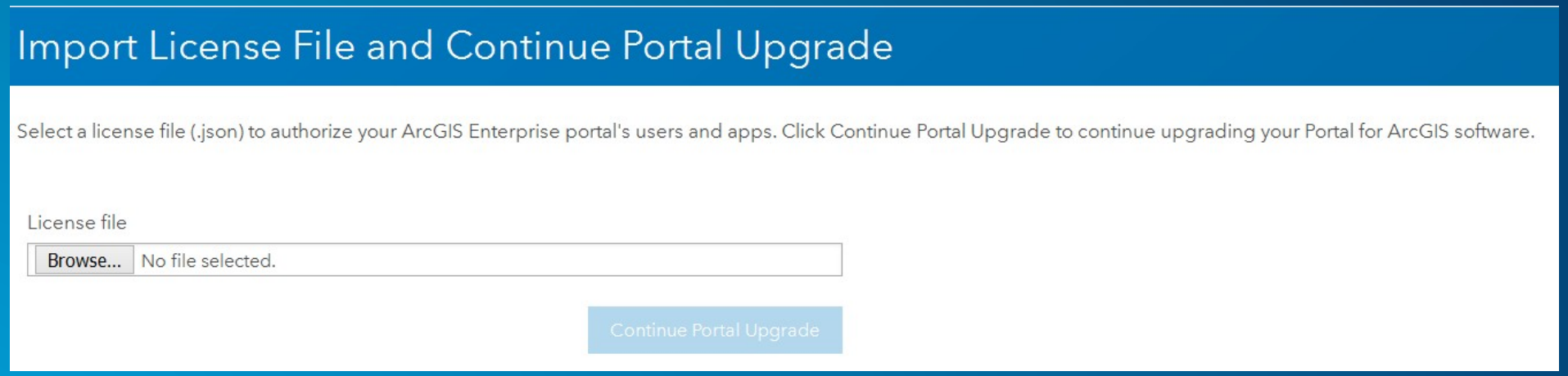
Upgrading Portal for ArcGIS

- At 10.6.1, ArcGIS Dat



Upgrading Portal for ArcGIS - Licensing

- Acquire Portal JSON license file before upgrade Portal



```
C:\Program Files\ArcGIS\Portal\tools\upgradeportal>upgradeportal.bat -h
Description: The upgradeportal utility allows you to upgrade the portal.

usage: upgradeportal [-lf <arg>] [-s]

 -lf,--licenseFile <arg>   This is the path to the portal license file.
 -s,--silent               Upgrade the portal silently.
 -h,--help                 Display this tool help message and exit.

C:\Program Files\ArcGIS\Portal\tools\upgradeportal>_
```

Licensing

Standard (Temporary)

210 assigned — -210 available | 0 total

Compatible add-on licenses ⌄ Compatible roles ⌄

⚠ Expired

Lite (Temporary)

3 assigned — -3 available | 0 total

Compatible add-on licenses ⌄ Compatible roles ⌄

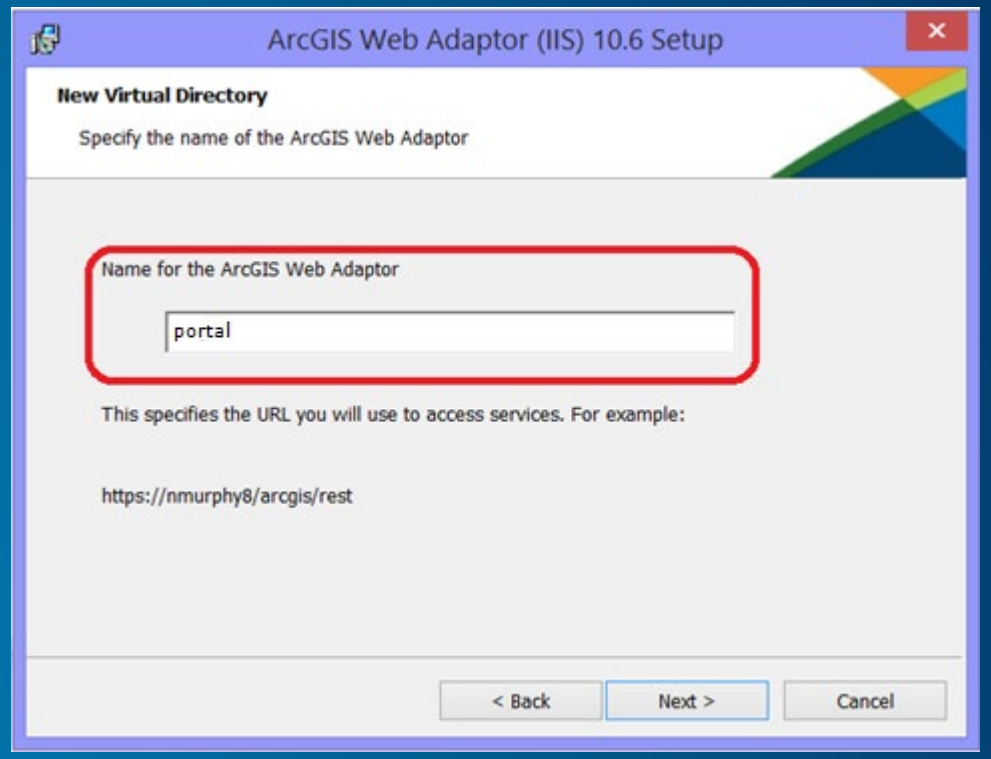
⚠ Expired

“Upgrading” Web Adaptor for Portal

- Record Web Adaptor name (i.e. *arcgis, portal)*

ArcGIS Web Adaptor (IIS) 10.6 - arcgis (443)	Environmental Systems Research Insti...	1/8/2018

- Uninstall the previous version
- Install the 10.7.1 ArcGIS Web Adaptor
  - Use the same name as previous version!!!
- Reconfigure Web Adaptor



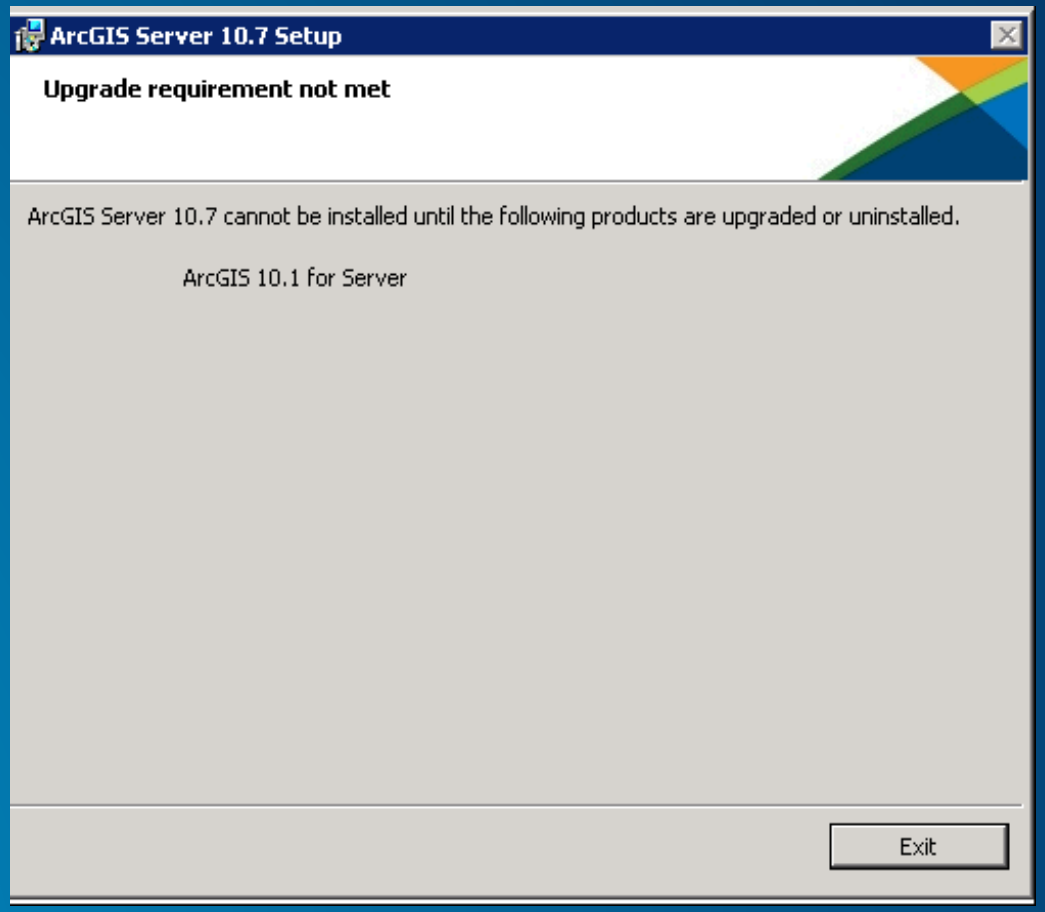
Upgrading ArcGIS Server

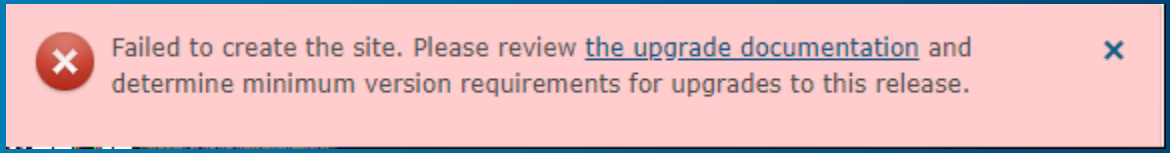
- Before 10.5, upgrade finished when setup completed
- At 10.5, post-install require
  - Press ***Continue***
  - Other federated servers can be upgraded later

Remember: Hosting Server = same version as Portal

No Direct Upgrade from 10.1.*

10.1 -> 10.7.1





- Upgrade to an intermediate version

“Upgrading” Web Adaptor for ArcGIS Server

- Record Web Adaptor name (i.e. *arcgis, server)*

ArcGIS Web Adaptor (IIS) 10.6 - arcgis (443)	Environmental Systems Research Insti...	1/8/2018

- Uninstall the previous version
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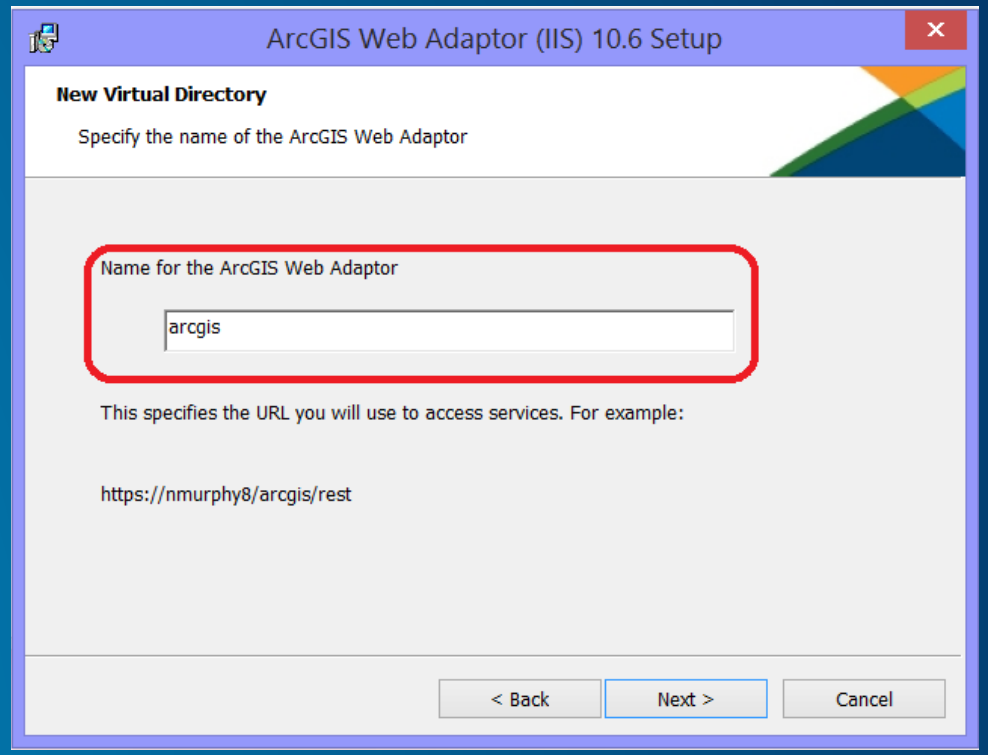
  - Use the same name as previous version!!!
- Reconfigure both Web Adaptors



Upgrading ArcGIS Data Store

- Prior to 10.7, upgrade Primary Data Store first, then Standby
- At 10.7, upgrade in any order
- At 10.6, in-place upgrades required (no uninstall / install method)

Validating after Upgrade

- Login to Portal and validate all servers (Portal Settings)
- Index status (portaladmin) – can you find your content?
- Check your TLS settings
- Publish to Portal
- Publish to Server (Server Manager, ArcGIS Pro)
- Reassign Portal members as needed (10.7 or 10.7.1)
  - Change any ‘Standard (Temporary)’ or ‘Lite (Temporary)’

ArcGIS Enterprise Builder

- Introduced at 10.5.1
- Upgrades first supported at 10.6
- Only use if installed with Enterprise Builder
  - Upgrades Portal, Hosting Server, Hosting Data Store, WebAdaptors
- Option: silently run upgradebasedeployment utility

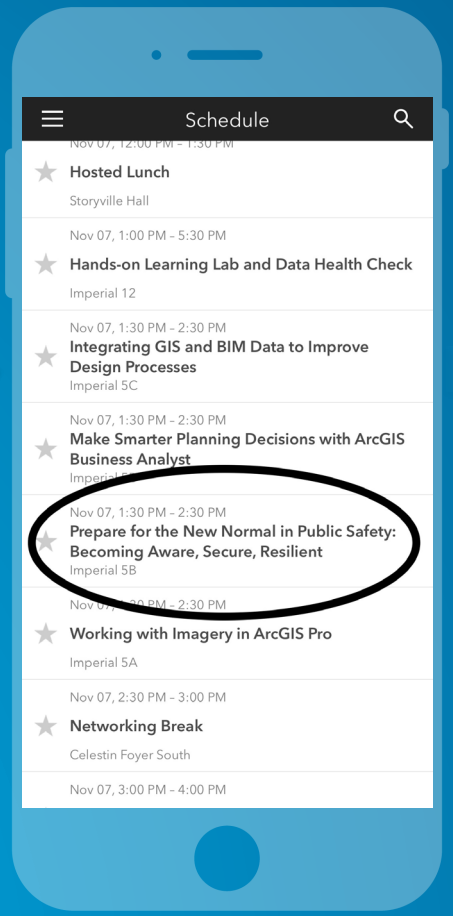
2019 Esri International User Conference Presentation

YouTube: “ArcGIS Enterprise: Upgrading Your Deployment”

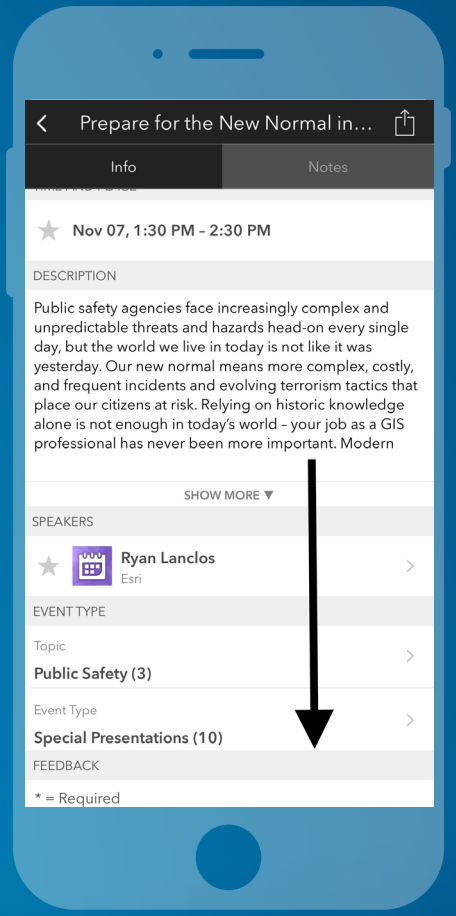
Give Us Your Feedback

Download the Esri Events app and find Gulf Coast UC

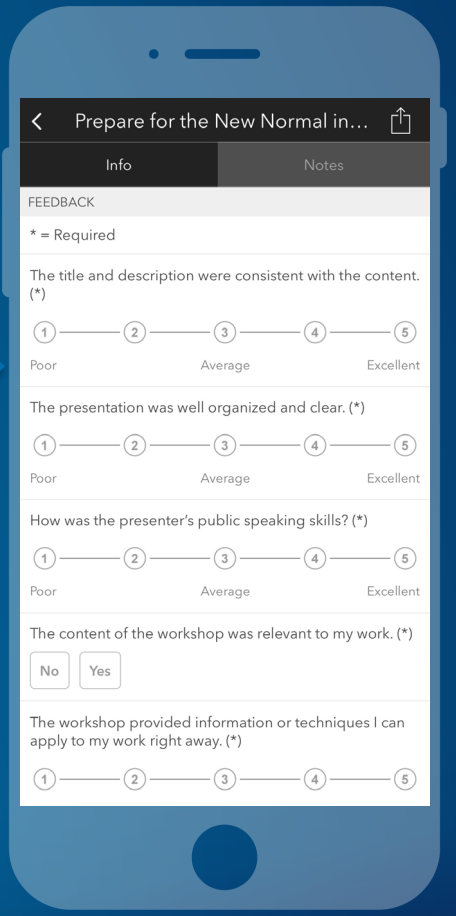
From the schedule, select the session you attended



Scroll down below the description to find the feedback section



Complete answers and select "Submit"



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