



Arc**GIS** Online

Introduction to ArcGIS Online

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GIS systems

Desktop GIS

- Run on PC
- Advanced analysis
- Examples:
 - Commercial: ArcMap
 - Open source: QGIS

Web GIS

- Run on web servers
- Data visualisation and sharing
- Examples:
 - Commercial: ArcGIS online, Map Box
 - Open source: Google maps, Open Street map

ArcGIS Online - Benefits

- Does not require programming skills
- Many templates available for different map interfaces
- Supported across multiple devices (desktop, mobile etc.)
- Powerful visualization
- Can create and share maps within minutes
- Can be shared with public for free
- Can be used as a crowdsourcing platform
- Smartphone application integration



ArcGIS Online



ArcGIS Online

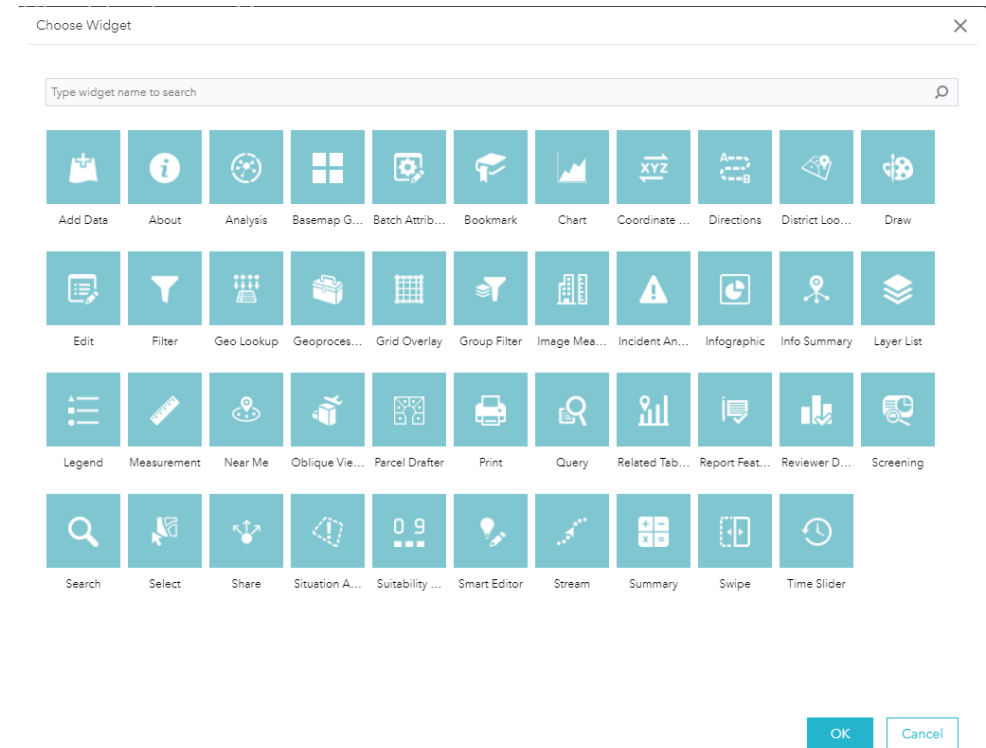
A cloud based mapping platform provided by ESRI

“An online collaborative web GIS that allows you to use, create, and share maps, scenes, apps, layers, analytics, and data.”



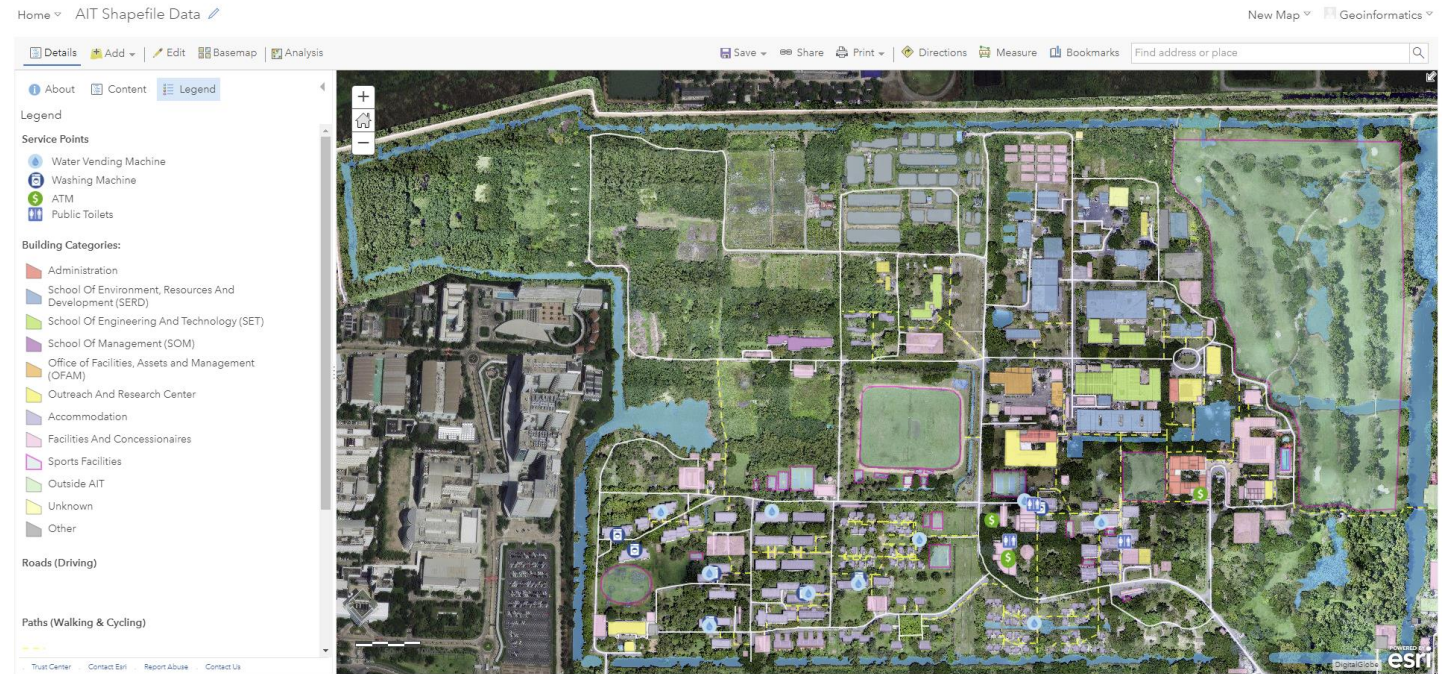
ArcGIS Online - Functions

- Visualize different GIS datasets
- Visualize time series data (e.g. rainfall)
- Tools to control the layer order, transparency, etc.
- Ability to choose between different basemaps (e.g. open street map, ESRI maps, Bing maps, etc.)
- Different charts to summarize the data
- Tools to allow users to add their own data (e.g. shapefiles, CSV, GPS files, etc)
- Ability to draw mark-ups on the map and print option
- Provide summary of the data for a user specified region on the map.
- Show attributes of features



Web Maps

- Interactive display of geographic information
- Web Maps tell stories and answer questions
- Contain:
 - A basemap
 - An extent
 - Navigation tools to pan and zoom
 - Set of data layers (many of which include interactive pop-up windows with information about the data)





Web Applications

Many different types of web applications available.

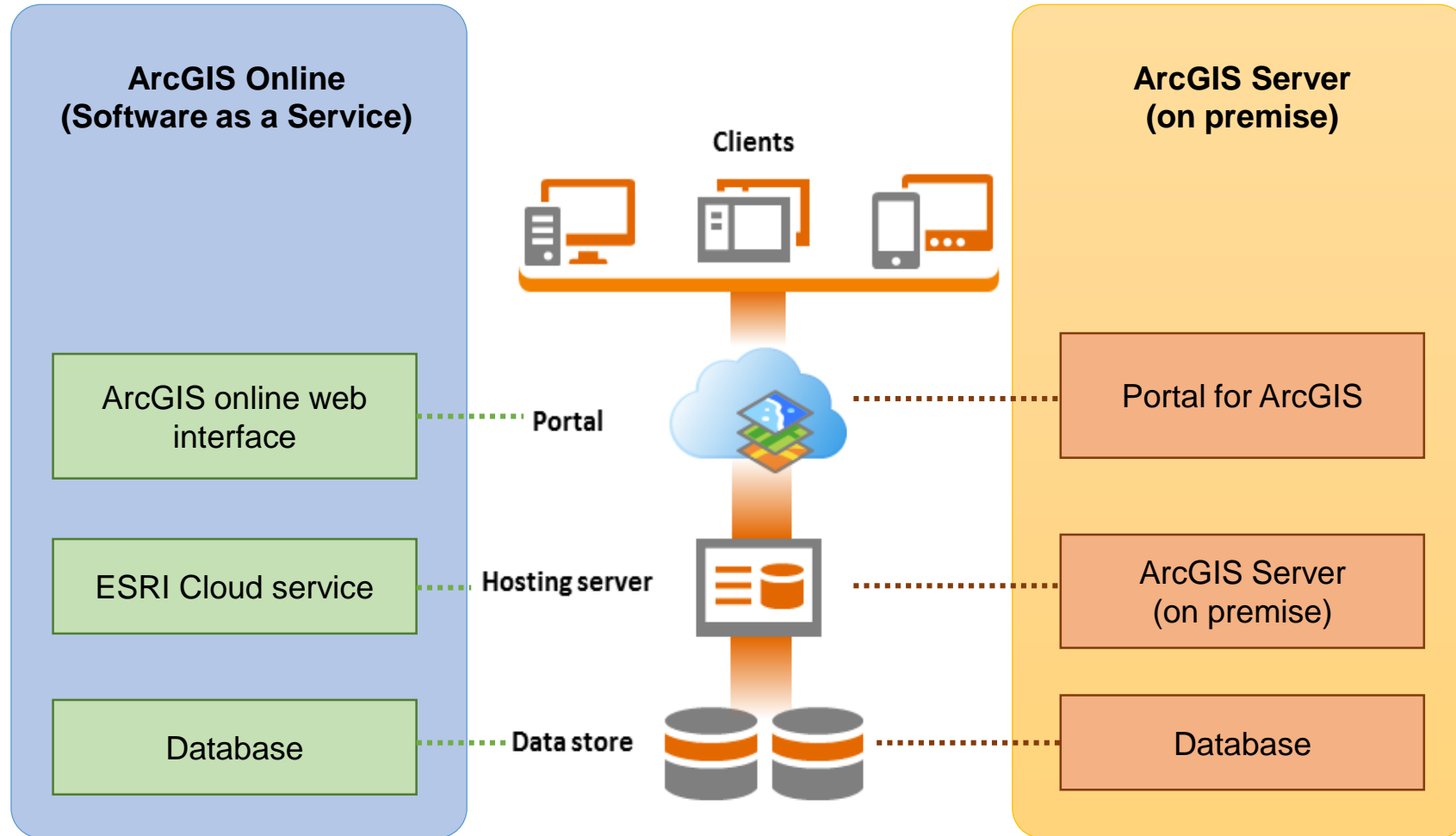
Ranging from interactive with analysis tools to scrolling story maps.

Main applications include:

1. Web maps (disaster response)
2. Advanced customised web apps
3. Story maps



ArcGIS Online - Structure



ArcGIS Online and ArcGIS Server

ArcGIS online

all components run on an ESRI managed cloud infrastructure system.

ArcGIS Server

Runs on one's own infrastructure (server).

When you require full control over data and hardware.

Pricing

ArcGIS online

Usually comes free with
ArcGIS desktop license

Approx. 10,000 USD

Payment is based on use of
storage in cloud as well as
computing resources used for
analysis.

ArcGIS Server

Price varies between different
server editions (e.g. Basic,
Standard, Advanced)

Approx. over 20,000 USD
Maintenance: 5000 USD/year

Creating a Web Application using ArcGIS Online

- Go to the ArcGIS Online Login Site

The screenshot shows a Google search for "arcgis online". The search results include "ArcGIS Online: Account Login" with the URL "https://www.arcgis.com" and a link to "Sign in to your ArcGIS Online account". Below the search results, there are sections for "ArcGIS organizational account", "What is ArcGIS Online?", "Map", and "ArcGIS Online | Cloud-Based GIS Mapping Software - Esri". The main content area displays the ArcGIS Online homepage, which features the ArcGIS logo, the Esri logo, and several featured maps: "Mountains of Fire", "12 เดือน 22 เดือนตลอดไป ที่ สบพิตร ปทุมธานี", and "NOSTRA Map". At the bottom of the homepage, there are four action buttons: "Sign-up now", "Make a Map", "ArcGIS for Developers", and "Discover Lessons".

The screenshot shows the ArcGIS Online login interface. It features a "Sign in with" header with the Esri logo. Below this, there is a section for "ArcGIS login" with a search icon and a "Sign In" button. The login form includes a username field with the text "LAOS_SAMIS1" and a password field with masked characters. There is a checkbox for "Keep me signed in" and a "Sign In" button. Below the login form, there are links for "Forgot username?" and "Forgot password?". There is also a section for "Enterprise login" with a search icon and a "Sign In" button. At the bottom, there are social media login options for Facebook and Google, and a link for "No account? Create an account". A "Privacy" link is located at the bottom right.

Login Credentials

- Username:Password

LAOS_SAMIS1:LAOSSAMIS1

LAOS_SAMIS2:LAOSSAMIS2

LAOS_SAMIS3:LAOSSAMIS3

LAOS_SAMIS4:LAOSSAMIS4

LAOS_SAMIS5:LAOSSAMIS5

