

THE "EASY BUTTON" FOR PUBLISHING/SERVING GEOSPATIAL DATA AND
CREATING SECURE PRIVATE WEB APPS AND MAPS, STORYMAPS,
DASHBOARDS AND ANALYSIS
INTEGRATE IN EXISTING GIS DATA,
MOVEMENT DATA, SENSOR DATA AND LIVE CAMERA FEEDS

CONVERT & RAPIDLY SERVE GIS, CAD, BIM DATA

3D Maps
Digital Twin

Easy to deploy
Map Dashboard self-hosted
StoryMaps

Web App and API's
Microservices

Powerful 2D Editor

COMMON OPERATING PICTURE
SITUATIONAL AWARENESS

AFFORDABLE
NO PER USER PRICING
SELF-HOSTED
SECURE

GEOSPATIAL CLOUD SERV

Edge Team Collaboration

Messages

Tasks

Statuses

Geofences

Locations

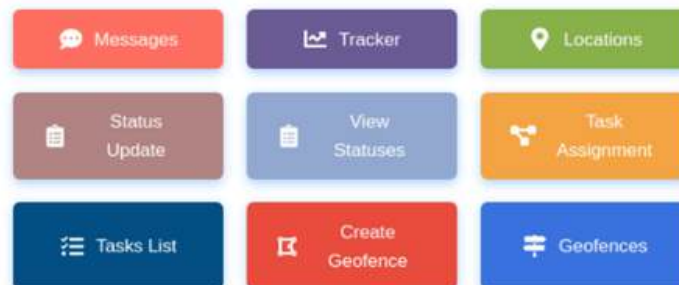
Welcome, User

Logout

Easily track all resources
and team members
keep track of assets
secure chat message
real-time data sharing
setup geofences

TEAM COLLABORATION

Make Tasks and get
status updates
Fill out custom forms



Load Floor Plans for
Indoor Mapping

Connect to
ESRI StreamServer
(ArcGIS Velocity and
GeoEvent Server)

QGIS Desktop Plugin



Supports Cloud
Native/Optimized and Static
Files too

https://plugins.qgis.org/plugins/ts_manager/



754-333-1650



<https://geospatialcloudserv.com>
<https://techmaven.net>

PUBLISH UAS DRONE DERIVED DATA PRODUCTS:

- COG GEOTIFF ORTHOPHOTO-AERIAL MOSAIC
- COG GEOTIFF DEM/DSM
- MBTILES & GPKG CACHED MAP TILES (VECTOR TILES, RASTER TILES, TERRAIN-ELEVATION TILES)
- GIS DATA, CAD DATA INTO POSTGIS DATABASE TABLES
- STATIC GIS FILES

COMPATIBILITY

**CONNECT TO DESKTOP GIS, MOBILE APPS,
WEB APPS, BI TOOLS, DASHBOARDS**

MAPPING SERVICES & TILE LAYERS:

- OGC API FEATURES W/ CQL FILTERING & CACHING
- OGC API TILES/XYZ VECTOR TILES & RASTER TILES W/ CQL FILTERING & CACHING
- OGC WMS
- CACHED MAP TILES AS XYZ, TMS, & WMTS
- CLOUD OPTIMIZED/NATIVE DATA AS HTTP URL WITH RANGE REQUESTS

ESRI SHP, FILEGDB, PERSONALGDB
GPKG GEOPACKAGE
MAPINFO
KML, GPX, GEOJSON, CSV/TSV,
EXCEL
SPATIALITE/SQlite
GEOPARQUET/PARQUET, AVRO,
ARROW
FLATGEOBUF
CAD - DXF, DWG, DGN
GEO TIFF
LIDAR POINT CLOUD - LAS, LAZ, ASCII
MAP TILES - MBTILES AND GPKG, PMTILES
3DTILES, SLPK, 3D MODELS

Delivers OGC API Features and Tiles (vector tiles & raster tiles)
Serve Static Files and Cloud Native/Optimized & Cached Map Tiles



GEOSPATIAL CLOUD SERV

Ready to go Self hosted Virtual Machine

Import Anything

Connect to existing geospatial data
mapping services, tiles

& files or import (conversion as required)

Drive Strategic Decisions with Comprehensive
Data Analytics Services and advanced data
visualization



✓ **Supports 3D Data**

✓ **CAD, BIM Data**

✓ **GIS Data & Photogrammetry**

✓ **UAS/Drone Data**

Guassian Splat and NERF
Reality Capture, LiDAR, imagery

**CONVERT DATA INTO
POSTGIS TABLES**

POWERFUL 3D/4D VISUALIZATION
QGIS DESKTOP PLUGIN & MOBILE APPS



Our Phone
754-333-1650



Our Website
geospatialcloudserv.com



3D Digital Twin

NERFS & GAUSSIAN SPATTILING, LIDAR, PHOTOGRAMMETRY



Geospatial Cloud Serv



REAL-TIME DATA

iOT Feeds
Movement Data
Event Drive Data
Live Updating Geospatial
Data
Live Video Feeds
2D & 3D Map Viewer

Team Collaboration Module
Location Tracking, Geofencing
Messaging and Data Sharing
Assignments, Status Updates
Forms and Form Builder



GIS MAPPING

 PostGIS Database
 Mapping Services
 Vector Tiles & Raster Tiles
 Microservices and APIs
Easy Integration into Mapping Apps



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Self hosted Rocky Linux
Virtual Machine OVF & HyperV
<https://geospatialcloudserv.com>

GEOSPATIAL DATA

GAME ENGINE

BACK-END

AR/VR/XR/MR

Developer friendly API's and Microservices.

Team Collaboration Features

with real-time API & Chat

Fully Compatible with Cesium, ArcGIS, MapBox and Others

Build Immersive Experiences

Deliver 3D Geospatial Data:

- SceneServer from SLPK
- 3DTILES
- GLB 3D Models
- 3D KML
- 3D CZML and GeoJSON

Raster Tiles

Terrain-Elevation Tiles

OGC API Features

Search API

(returns JSON,
html, GeoJSON and KML)

**PostGIS Tables
& Local GIS Files
as dynamic
Vector Tiles
Raster Tiles**

Geospatial Cloud Serv



Call Us

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<https://geospatialcloudserv.com>

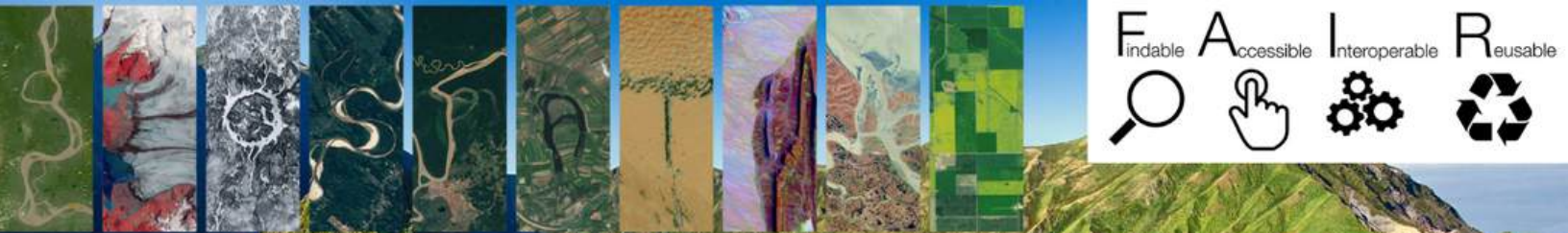
<https://techmaven.net>



SELF HOSTED

ROCKY LINUX VIRTUAL MACHINE





EXPLORE & ANALYZE

Earth Observation Raster Data

GEOSPATIAL CLOUD SERV

Cloud Optimized GeoTIFF

Connect to Local or Remote Internet Hosted Cloud Optimized GeoTIFF and Spatial Temporal Asset Catalog (STAC) and Query Pixel Values, Elevation Values and Metadata



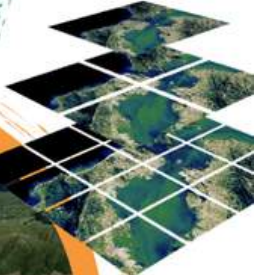
ESRI ImageServer & MapServer



Connect to any OGC (WMS, WCS) and ESRI Mapping Service Support for ESRI ImageServer with pre-configured rendering rules.
Perform Imagery Analysis
Perform Deep Learning, Segment Anything, AI and Machine Learning



LeafMap
Python Env



Integration with
Earth Explorer 3D Map
with Augmented Reality



Cached
Map Tiles



SERVE DATA
TO TAK



Apache Sedona



GeoTrellis

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<https://geospatialcloudserv.com>
<https://techmaven.net>

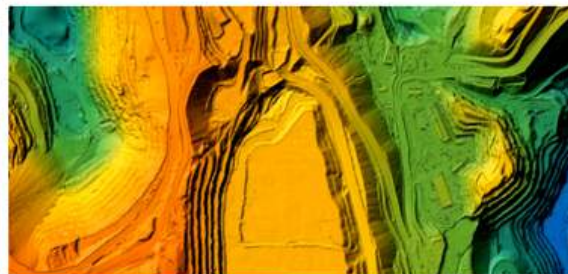
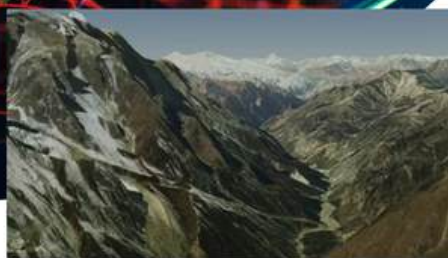
GEOSPATIAL ETL

DATA PROCESSING

SELF HOSTED SOLUTION



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Geospatial
Consortium

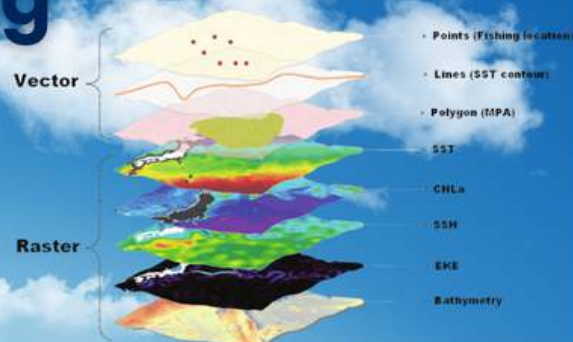


GEOSPATIAL CLOUD SERV

DATA PIPELINES

Advanced Geoprocessing

- Jupyter Notebook Environment with LeafMap
- Advanced Microservices and API's
- DuckDB and PG_DuckDB
- Many FOSS4G Tools (GDAL, OTB, SAGA, GRASS, PKTOOLS, LASTOOLS, PDAL, MDAL, Whitebox Tools, and much more)



kestra.



**SAVE ON
AGOL CREDITS**



PostgreSQL
Foreign
Data Wrapper

dltHub



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TECHMAVEN
GEOSPATIAL



Big Data Rendering Fast Efficient Visualization

**GEOSPATIAL
CLOUD
SERV**



OGC®
Making location count.

WMS

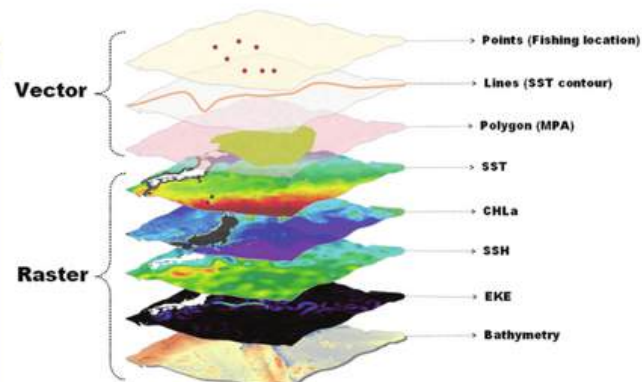
**ABILITY TO CACHE
AREA OF INTEREST**

**DYNAMIC AND CACHED VECTOR TILES AND RASTER TILES
MERGED INTO AN OGC WMS URL**

**DYNAMIC CONVERSION OF GIS FILES AND POSTGIS TABLES
INTO MVT/PBF VECTOR TILES**

Compatibility

- ✓ **BI Tools & Dashboards**
- ✓ **ATAK & WinTAK**
- ✓ **Cesium WebGL & Game Engine**
- ✓ **Other Mapping apps
Desktop GIS Software**



Tech Maven Geospatial
<https://techmaven.net>

<https://geospatialcloudserv.com>





COG

CLOUD OPTIMIZED
GEOTIFF



COPC.io

Cloud Optimized Point Cloud



FlatGeobuf

GEOSPATIAL CLOUD SERV

Self-Hosted Rocky Linux Virtual Machine - Real-Time Digital Twin
or Windows Tile Server

CLOUD OPTIMIZED /NATIVE READY

PMTILES & COMTILES

Cloud Optimized

GeoTIFF (COG)

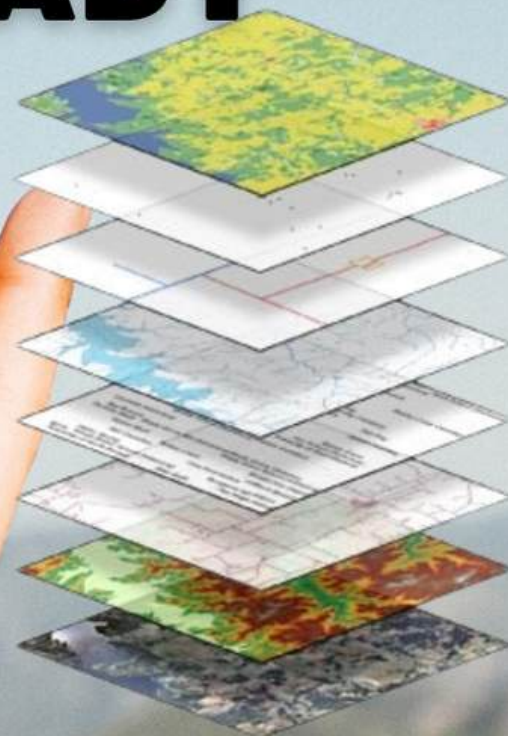
Cloud Optimized Point

Cloud

ZARR

NetCDF

FlatGeoBuf



STAC

SpatioTemporal
Asset Catalog

STAC

OGC API RECORDS/CSW

EDR

<https://geospatialcloudserv.com> <https://tileserver.techmaven.net>



GEOSPATIAL CLOUD SERV

IMPROVING AEC, CAD, GIS, BIM, DOCUMENT WORKFLOWS & Data Access

WebDav Connection and Mobile and Windows Apps
for always accessing your content

Mobile App has PDF Viewer, EPUB, Office File Vlewer,
File Manager

Securely share large client deliverables
Create published private maps (no per user licensing)

Developer Friendly API's and Microservices and Capable Platform for Integration

- EAM - Asset and Work Management
- CRM
- ERP
- Document Management Systems
- Ticket Systems
- Other Enterprise Systems
- Data Lakes, Data Warehouses, Database



Our Website:
<https://geospatialcloudserv.com>
<https://techmaven.net>

Best Services:

System
Integration
Services

Custom Software
Solutions

Data
Synchronization
Tools



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**TECHMAVEN
GEOSPATIAL**

Data Catalogs

Cloud Native /Optimized
Querying
Optimized Data Serving

Open Data Portal
GIS Metadata



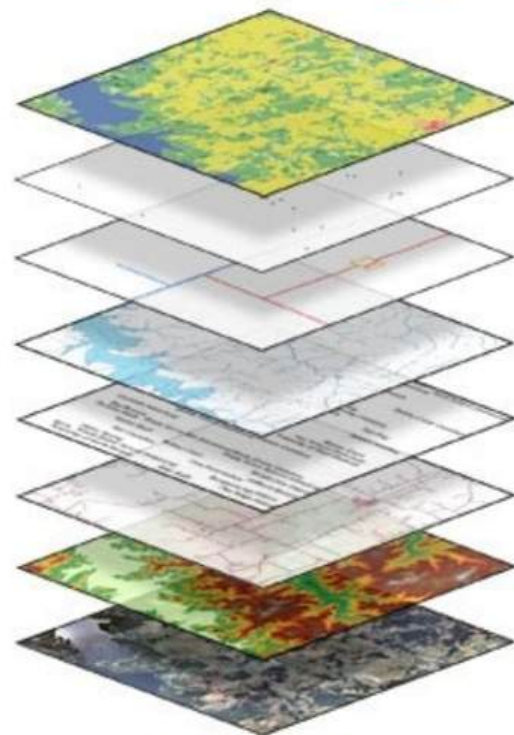
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Geospatial
Consortium

RAPIDLY CONNECT TO DATA AND
ADVANCED MAPPING AND DATA
VISUALIZATION AND ANALYSIS

Geospatial Cloud Serv

We help you break silos and
Discover Data, Publish Data
and Metadata and take action

- 🕒 **Time series & Movement Data**
- 🌱 **Environmental & Climate Data**
- 🌍 **Earth Observation Data**



Land Cover

Structures

Boundaries

Hydrography

Geographic Names

Transportation

Elevation

Orthoimagery

F indable

A ccessible

I nteroperable

R eusable



STAC

CSW & OGC API Records



Our Phone
754-333-1650



Our Website
<https://geospatialcloudserv.com>

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Robust Microservices API Landing Page

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Data Visualization and Mapping

REAL-TIME COMMON OPERATING PICTURE

Streamline Your
Operations with Team
Collaboration Module

Our Services:

- ✓ ADS-B, AIS, AVL, GFTS Moving Features
 - ✓ Movement Data
 - ✓ Event Driven Data
 - ✓ IoT & Sensor Data Feeds
 - ✓ Live Updating Geospatial Data
-
ESRI FeatureServer ESRI StreamServer
OGC WFS & OGC API Features

Live Video Feeds
BFT Team Location Tracking
& Geofencing
Messaging & Data Sharing

Custom Forms
Data Editing



Connect to any Geospatial
Data
ESRI and OGC & Cloud Native
Files
and Static GIS Files

APR6/MILSEPC2525C & Marker Symbols
Range Rings & Bullseye
Image Overlay
GRG Grid Reference Graphics
Distance and Bearing

MGRS & GARS
Advanced Tools
& Widgets
3D Visualization



ARTIFICIAL INTELLIGENCE **AI** GEOSPATIAL AGENTS

AI AGENT THAT READS OGC API
PROCESSES/WPS WORKFLOWS AND
GEOPROCESSING, DOWNLOADING, AND SPATIAL
SEARCHING FUNCTIONS

MAPPING
ANALYTICS

COMING
SOON



TECHMAVEN
GEOSPATIAL



<https://geospatialcloudserv.com>

<https://techmaven.net>



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maps+ai@techmaven.net

Run Geoprocessing tasks
without credit model.
Data Enrichment
GeoCoding
Map Joining

Store a Materialized View
of your FeatureServer in PostGIS
Support CDC Change Data
Capture Workflows
FAST - OPTIMIZED

Equivalent ArcGIS Notebooks -
Python Jupyter Notebook and
Leafmap - Geoprocessing tasks
without credit model.
3D/4D Digital Twin

GEOSPATIAL CLOUD SERV TO SUPPLEMENT ESRI ARCGIS ONLINE

Enable compatibility with other non-ESRI Solutions/apps:

- TAK Compatible Endpoints with Tile.xml (ATAK, WINTAK, iTAK, other TAK Apps)
- Compatible with All Business Intelligence, Dashboard Solutions and Reporting applications that can connect to postgresql/postgis database and standard REST API.

Team Collaboration Module

- Location Sharing and Team Tracking, and Geofencing
 - Chat Messages with attachments
 - Data Sharing | Real-Time API and ODIC OAUTH2 Integration
 - Assignments/Tasks and Status Updates
 - Forms with Form Builder
- One-Time Fee**
No Per User License
Optional Annual Maintenance

SAVE COSTS - AVOID CREDIT MODEL & AVOID VIEWER LICENSE

From ESRI ArcGIS Online Hosted FeatureServer Layer deliver data dynamically as:

- OGC API Tiles/XYZ, TMS, WMTS- Dynamic Raster Tiles
- OGC API Tiles/XYZ - Dynamic Vector Tiles with CQL filtering & Caching (with ability to merge multiple into one URL)
- OGC API Features with CQL Filtering & Caching
- OGC API Maps/OGC WMS
- OGC API Coverages/OGC WCS
- NOCODB REST API and WebHooks and Attribute Table and Forms
- Create Views and Materialized Views combining AGOL hosted featureserver with other business data (Databases, Data warehouses, Data Lakes, Data Lake houses, API's and other GIS Data)

Companion Mobile Apps
and QGIS Desktop Plugin

geospatialclouds

Store Big Data outside of AGOL.

- Store and serve **Cached Map Tiles** - MBTILES and GPKG as OGC API Tiles/XYZ, TMS, WMTS
- Store and serve Cloud Optimized GeoTIFF (COG)
- Store and serve other cloud native files with range request headers - COPC, PMTILES, GeoParquet/Parquet, FlatGeoBuf
- Store and serve SLPK as SceneServer URL
- Store and serve VTPK (converted to GPKG or MBTILES) and deliver OGC API Tiles/XYZ vector tiles
- Store Static GIS Files without using credit model and offer open data portal. (Zipped FileGDB, Zipped PersonalGDB, Zipped Shapefile, Mobile Geodatabase, GPKG, KML/KMZ, GeoJSON, GPX, GeoParquet, FlatGeoBuf)