

Web Service using GeoPackage (II)

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Introduction

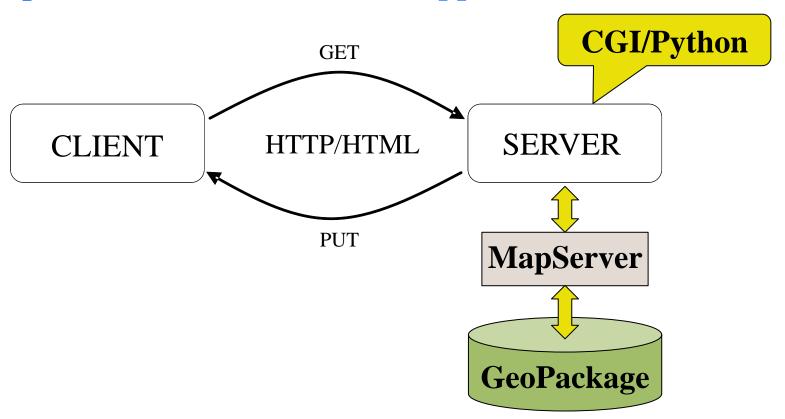
• This presentation is about...

 Serving the mapping content of GeoPackage using geospatial web services (WMS)

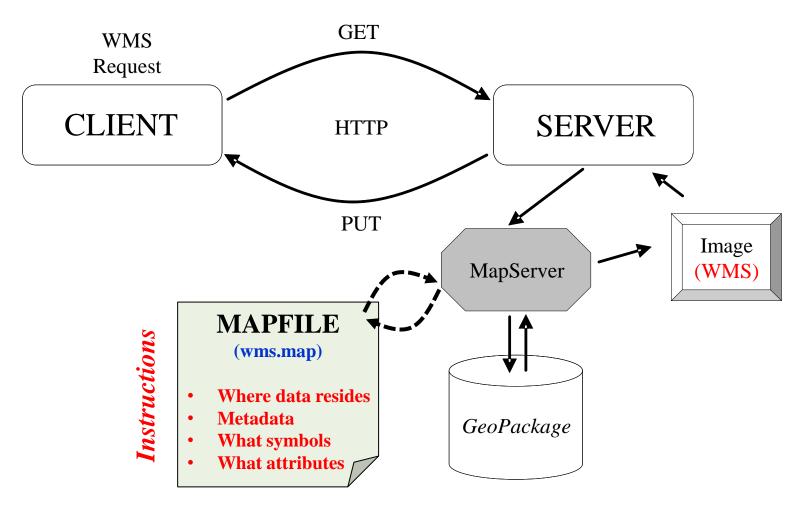
Development of a Web Map Service using MapServer

Web Service for Mapping...

 GeoPackage in the role of the data repository and MapServer in the role of CGI application...



WMS with MapServer & Mapfile



• Mapfile: (1/2)

http://gaia.gge.unb.ca:8080/gge5403/labs/5/Fredericton_wms_GPKG.map

```
Fredericton_wms_GPKG - Notepad
                                                                                               File Edit Format View Help
MAP
NAME Fredericton wms
STATUS ON
SIZE 800 800
EXTENT -66.76 45.84 -66.55 46.05
UNITS DD
IMAGECOLOR 250 250 250
PROJECTION
         "init=epsg:4617"
END
WEB
         IMAGEPATH "C:\ms4w\Apache\htdocs\tmp"
         IMAGEURL "/tmp/"
         METADATA
                  "wms title" "WMS Server (GeoPackage Example)"
                  "wms onlineresource" "http://gaia.gge.unb.ca:8080/cgi-bin/mapserv.exe?
map=/ms4w/Apache/htdocs/gge5403/labs/5/Fredericton wms GPKG.map&SERVICE=WMS&VERSION=1.3.0
&REQUEST=GetCapabilities"
                  "wms srs" "EPSG:4617 EPSG:3857"
                  "ows enable request" "*"
                  END
END
                                                                  Ln 1, Col 1
                                                                             100% Unix (LF)
                                                                                            UTF-8
```

• Mapfile: (2/2)

http://gaia.gge.unb.ca:8080/gge5403/labs/5/Fredericton_wms_GPKG.map

```
Fredericton_wms_GPKG - Notepad
File Edit Format View Help
   LAYER
    NAME "street"
    TYPE LINE
    CONNECTIONTYPE OGR
    CONNECTION "C:/ms4w/Apache/htdocs/gge5403/labs/5/canvec 210412 258053.gpkg"
    DATA "road segment 1"
    METADATA
       'wms_title' 'Street Centerline'
     END
    STATUS ON
     PROJECTION
         'init=epsg:4617'
    END
  CLASS
        NAME 'Trails'
        STYLE
          SYMBOL 0
          SIZE 3
         COLOR 146 146 146
        END
    END
  END
END
                                                                      Ln 1, Col 1
                                                                                  100% Unix (LF)
                                                                                                 UTF-8
```

• Example Requests:

http://gaia.gge.unb.ca:8080/gge5403/labs/5/Requests.txt

```
http://gaia.gge.unb.ca:8080/cgi-bin/mapserv.exe?
map=/ms4w/Apache/htdocs/gge5403/labs/5/Fredericton wms GPKG.map&
SERVICE=WMS&VERSION=1.3.0&
REQUEST=GetCapabilities
http://gaia.gge.unb.ca:8080/cgi-bin/mapserv.exe?
map=/ms4w/Apache/htdocs/gge5403/labs/5/Fredericton_wms_GPKG.map&
SERVICE=WMS&VERSION=1.1.1&
REQUEST=GetMap&LAYERS=street&
BBOX=-66.76,45.84,-66.55,46.05&
STYLES=&SRS=EPSG:4617&
WIDTH=800&HEIGHT=800&
FORMAT=image/png
```

