PolarGrid Virtual GIS Server

Software Release page: http://polargrid.org/polargrid/software-release

Contents

Virtual server

1. The virtual machine is designed for PolarGrid developers to explore the potentials to integrate GIS services into their data processing toolbox.
2. The virtual machine is built on GIS virtual machine (Ubuntu 11.04) from GISVM processor, and configured with 1 virtual CPU and 512 M memory.
3. The virtual machine runs with VMware Player and VirutalBox, and fully tested with VMware player.
4. The virtual machine is compressed with 7Zip, it takes 5GB harddisk space once unpacked.
5. The virtual machine is intended for the internal testing only; please don't use it directly as the public server without consulting IT support.

How to run GIS Server

1. Install VMware player
2. Download compressed image file, unzip with 7-zip (http://www.7-zip.org/download.html)
3. Double click gisvm.vmx or use "Open" from VMware player
4. In your machine (not the virtual server), open (http://gisvm)

User/Passwords

Ubuntu OS passwords:

- User login : user
- User password: user
- Root password: user

PostgreSQL password:
- Login : postgres
- Password: postgres

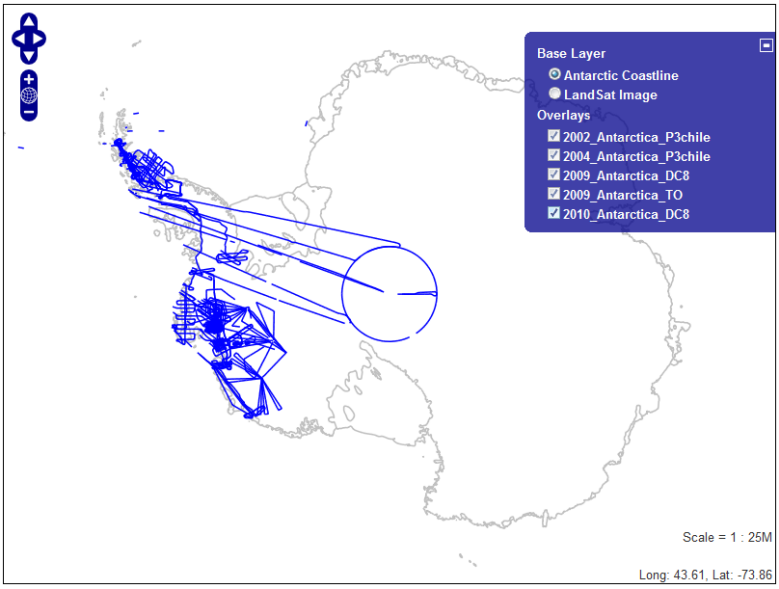
TOMCAT password:
- Manager login: admin
- Password : admin

Samba server: Share = gisdata {/home/user/data} as {\\gisvm\gisdata}

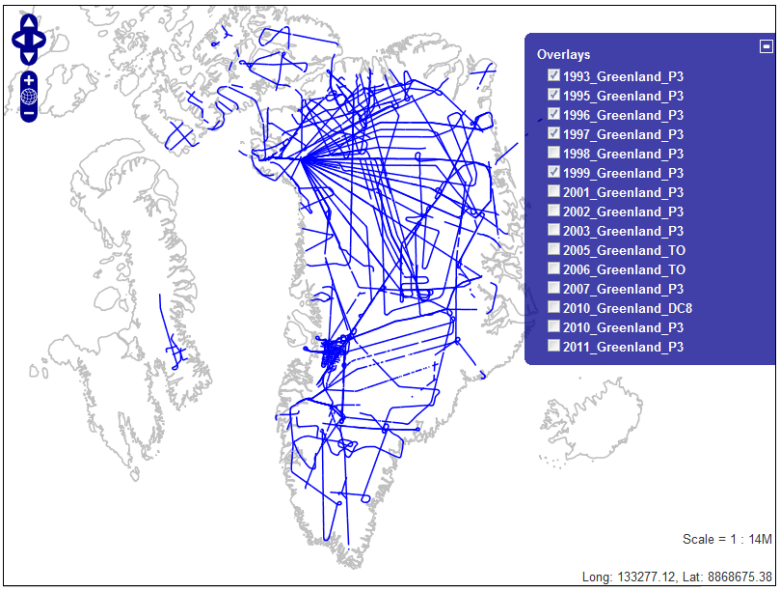
Sample datasets

GeoServer:

1. Antarctica (5 missions): 2002_Antarctica_P3chile, 2004_Antarctica_P3chile, 2009_Antarctica_DC8, 2009_Antarctica_TO, 2010_Antarctica_DC8



2. Greenland (15 missions): 1993_Greenland_P3, 1995_Greenland_P3, 1996_Greenland_P3, 1997_Greenland_P3, 1998_Greenland_P3, 1999_Greenland_P3, 2001_Greenland_P3, 2002_Greenland_P3, 2003_Greenland_P3, 2005_Greenland_TO, 2006_Greenland_TO, 2007_Greenland_P3, 2010_Greenland_DC8, 2010_Greenland_P3, 2011_Greenland_P3

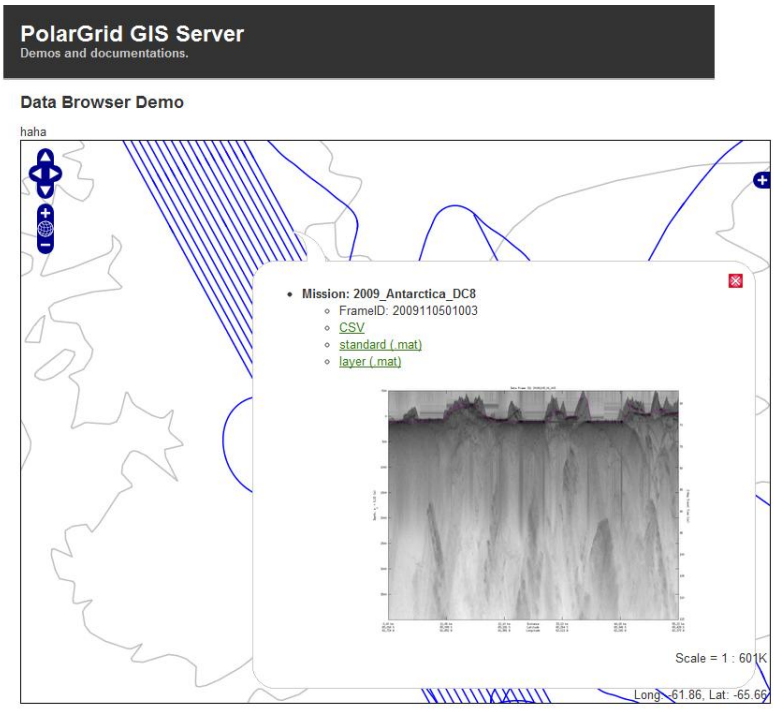


PostgreSQL:

CSV file are stored as point type, currently loaded with all the csv files from Antarctica missions.

How to test server

In your machine (not the virtual server), open (http://gisvm)

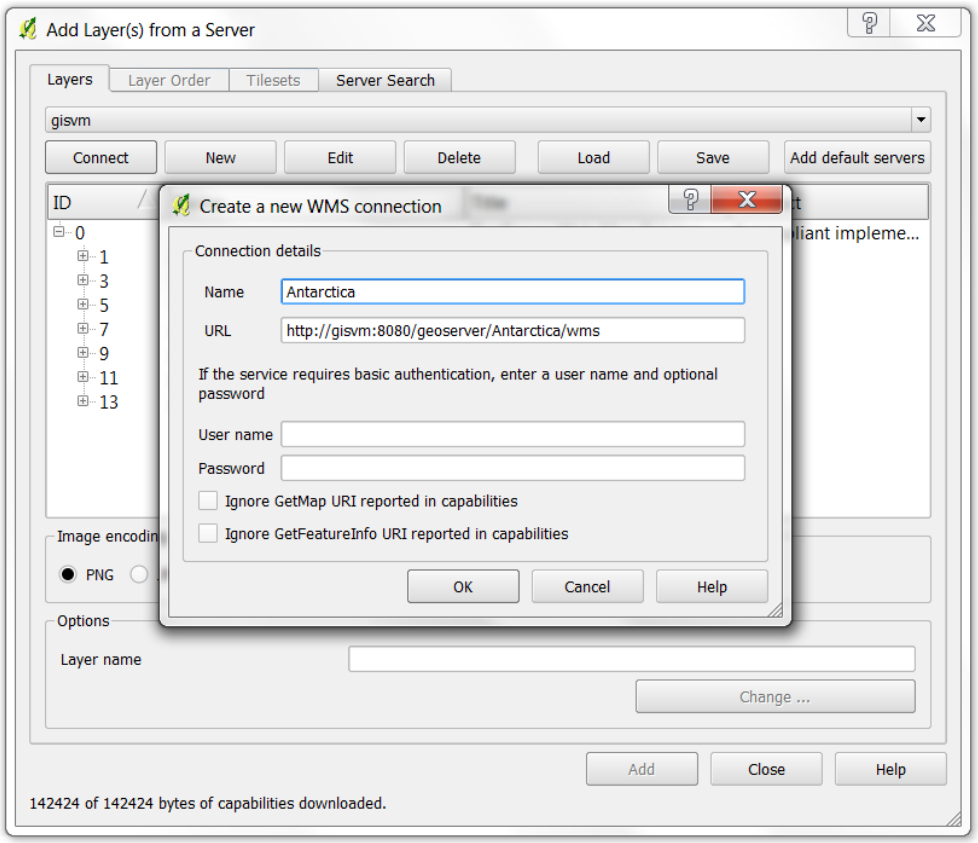


Work with server (QGIS)

QGIS (http://qgis.org/)

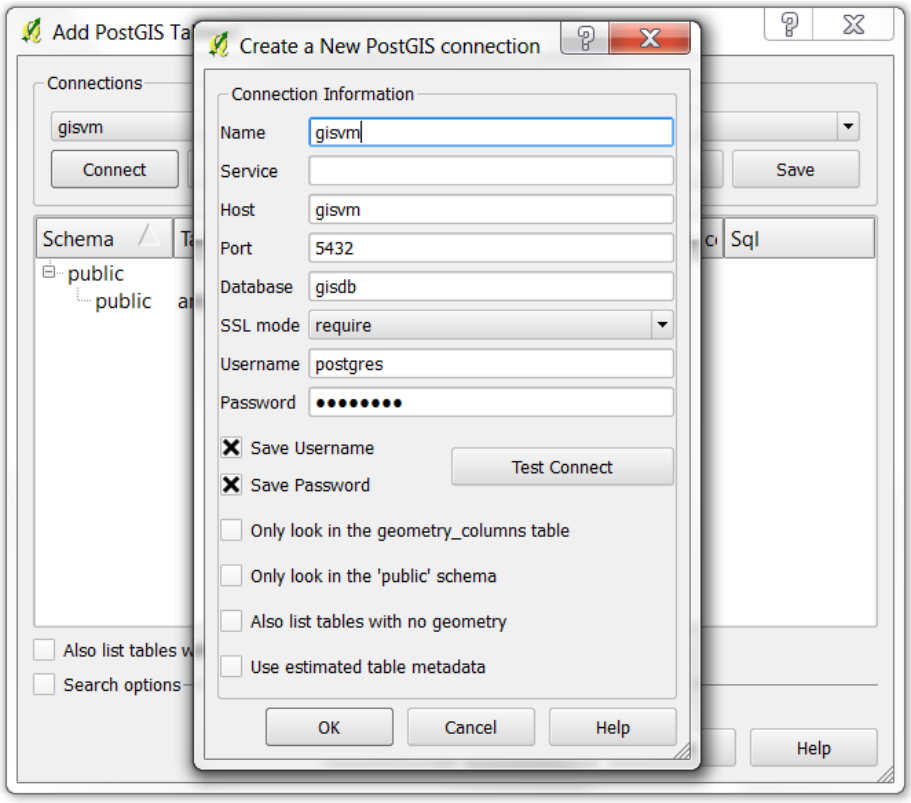
GeoServer WMS service:

Antarctica http://gisvm:8080/geoserver/Antarctica/wms
Greenland http://gisvm:8080/geoserver/Greenland/wms



PostgreSQL

Connection parameters: Host: gisvm, Port: 5432, Database: gisdb, Username: postgres, Password: postgres



Work with server (Matlab)

Please refer to the Matlab Mapping Toolbox and Database Toolbox for the details.
Sample codes will be included in the next release.