



HydroloGIS
Environmental Engineering

A Friendly Survey of Popular Geospatial Services





This is Hands On

- 1) Look at your neighbour
Introduce yourself!
- 2) Compare machine
specifications
- 3) Take the fastest machine
and put it on the desk
- 4) Insert Live DVD and
Restart!
- 5) Wait ..
- 6) If you succeed you will get
a workbook!



+



=





Starting up!

GNU/Linux 3.6.3 Debian 2008 07-15 Copyright (C) 1994-2008 H. Peter Anvin
Arranagong GISUM Live 2.0

For the default live system, press ENTER or enter 'live'.

To start in safe graphics mode, enter 'xforcevesa'.

To start the installer directly, enter 'install'.

To verify the CD for errors, enter 'check'.

To run nentest86+, enter 'nentest'

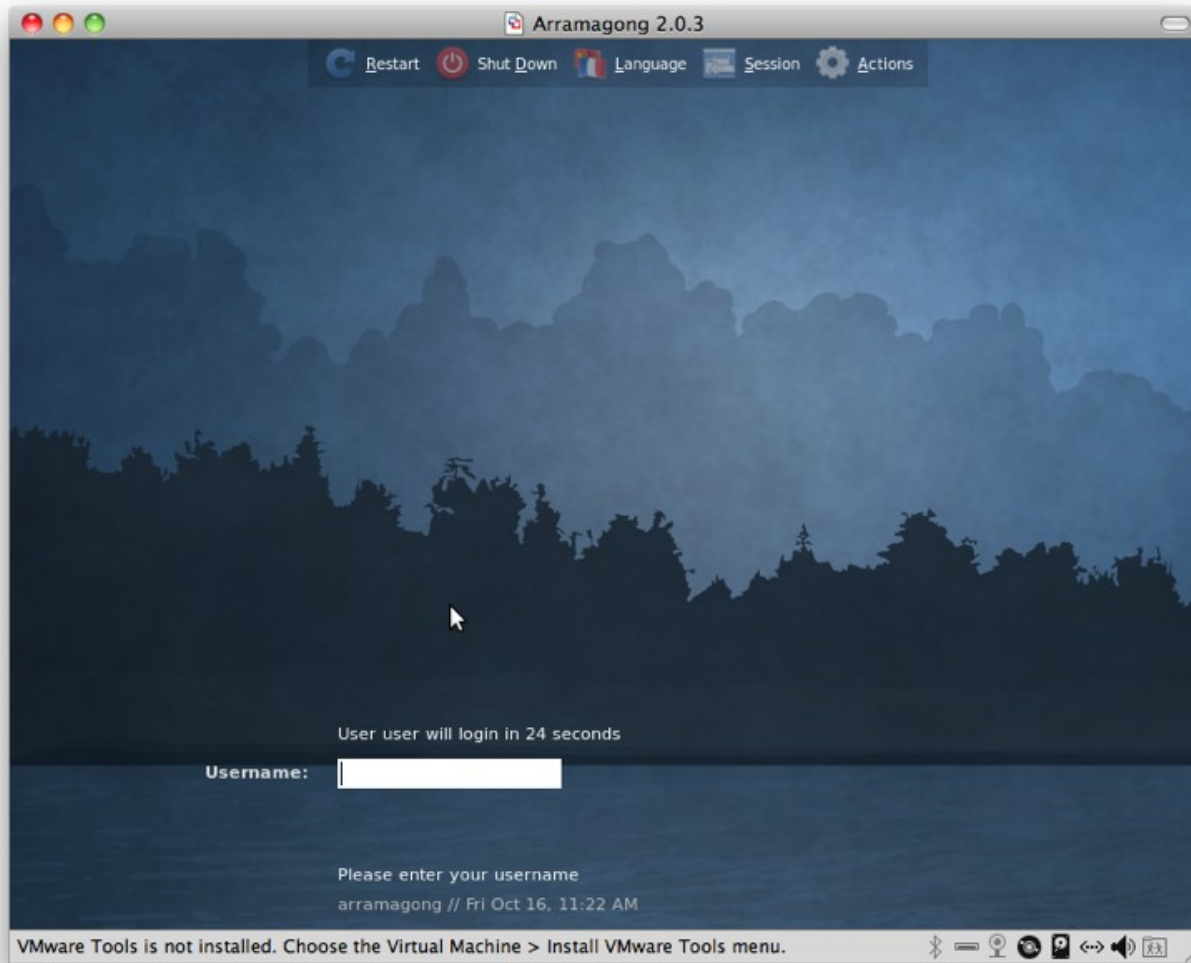
To boot from the first hard disk, enter 'hd'

boot:

Loading /casper/vmlinuz.....



Starting Up





Introductions



- Australia
- Founded 1994
- Integration
- End to end
 - Solutions
 - Services
 - Support
- Italy
- Hydrology
- JGrass
- BeeGIS



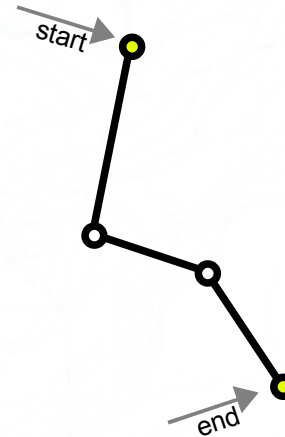
Ground Rules

- Yes that is a pun
- Feature is something in the real world
- When we draw it on Map it is still called a Feature
- The shape it forms on a map is called a Geometry
- The positions we measure are written down using a Coordinate Reference System.
 - like how you write down a distance in meters

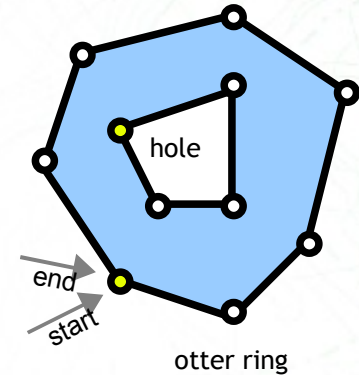
Point



LineString



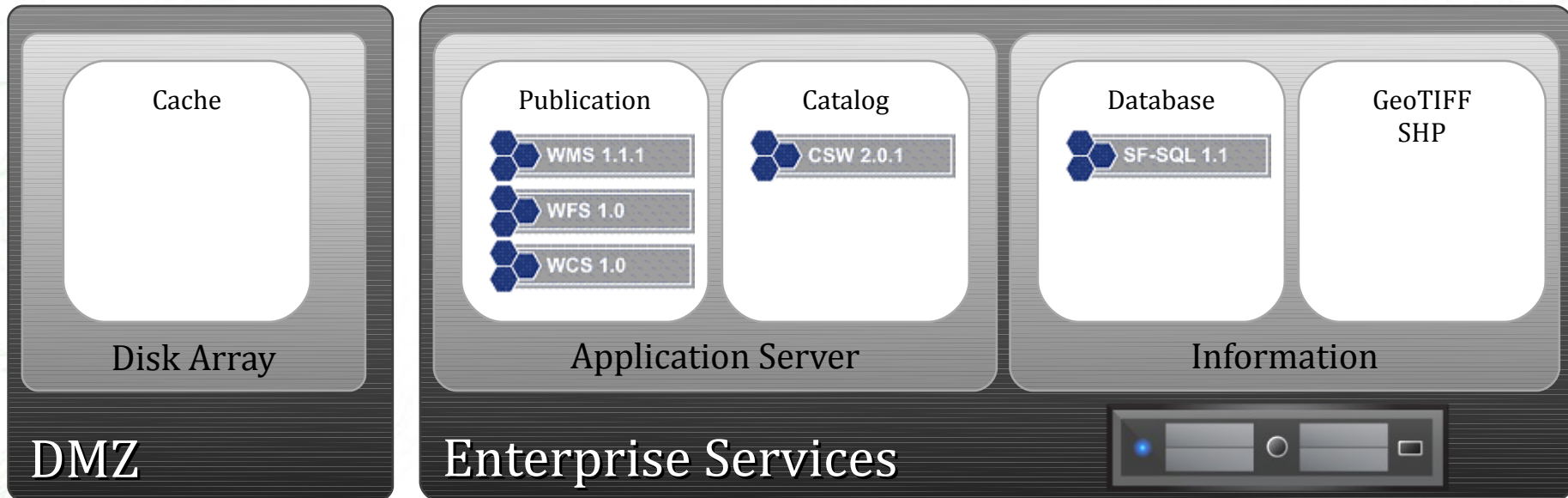
Polygon





Standards

- Allow us to work together!
- We tend to follow OGC Standards
- Because we do not have to pay for them
- And Raj is a nice guy





Open Source Implementations

- Choosing is hard!
- And having a choice is great



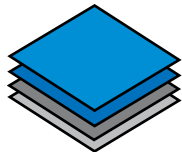


Open Source Stack



Browser

OpenLayers



Map Bender

Map**b**ender



Data Products

OSM



Mobile

gvSig Mobile



Desktop

Grass GIS



JUMP



QuantumGIS



uDig



gvSig



TileCache



Disk Array

DMZ

MapServer

MAPSERVER

GeoServer



deegree

deegree

GeoNetwork

GeoNetwork
opensource

Application Server

Enterprise Services

PostGIS



Information



Workbook 1 - Introduction

- If your Live DVD did not start up raise your hand
- Workbook will take 20 minutes!
- Bring a friend
(It is faster!)
- One workbook per pair!



Desktop



Application Server



Information