Collaborative Development Tools
(Savannah installation on gridportal.fzk.de)

- What is Savannah?
- Example Problem
- Example Solution (Live Demo)
- Outlook
What is Savannah?

• EU-Project CrossGrid needed a collaboration tool
  => Installation funded by EU

• Savannah is a “Portal System”
  • Runs on a webserver
  • User Interfaces via Browser

• Basic System: LAMP
  = Linux + Apache + MySQL + PHP
  + Perl and Bash scripts for taping everything together

• Hardware:
<table>
<thead>
<tr>
<th>Device</th>
<th>Received</th>
<th>Sent</th>
<th>Err/Drop</th>
</tr>
</thead>
<tbody>
<tr>
<td>lo</td>
<td>606.79 MB</td>
<td>606.79 MB</td>
<td>0/0</td>
</tr>
<tr>
<td>eth0</td>
<td>2.81 GB</td>
<td>2.08 GB</td>
<td>0/0</td>
</tr>
<tr>
<td>tap0</td>
<td>1.89 GB</td>
<td>2.73 GB</td>
<td>0/941</td>
</tr>
</tbody>
</table>

**System Vital**
- Canonical Hostname: gridportal.fzk.de
- Listening IP: 141.52.160.6
- Uptime: 200 days 23 hours 51 minutes
- Current Users: 1
- Load Averages: 0.47 0.60 0.55

**Hardware Information**
- Processors: 2
- Model: Pentium III (Coppermine)
- Chip MHz: 999.76 MHz
- Cache Size: 256 KB
- System: 3982.99
- Bogomips: 3982.99
- PCI Devices: ATI Technologies Inc Rage XL
- Intel Corp. 82557/8/9 [Ethernet Pro 100]
- ServerWorks OSB4 IDE Controller
- 3ware Inc 3ware 7000-series ATA-RAID (#2)
- 3ware Inc 3ware 7000-series ATA-RAID
- IDE Devices: None
- SCSI Devices: 3ware 3w-xxxx (Direct-Access)
- 3ware 3w-xxxx (Direct-Access)

**Memory Usage**
- Physical Memory: 20%
- Disk Swap: 2%

<table>
<thead>
<tr>
<th>Type</th>
<th>Percent Capacity</th>
<th>Free</th>
<th>Used</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Memory</td>
<td>20%</td>
<td>803.96 MB</td>
<td>202.44 MB</td>
<td>1006.40 MB</td>
</tr>
<tr>
<td>Disk Swap</td>
<td>2%</td>
<td>1.96 GB</td>
<td>48.77 MB</td>
<td>2.01 GB</td>
</tr>
</tbody>
</table>

**Mounted Filesystems**
- Percent Capacity: 51%

<table>
<thead>
<tr>
<th></th>
<th>Percent Capacity</th>
<th>Free</th>
<th>Used</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Totals:</td>
<td>51%</td>
<td>238.93 GB</td>
<td>272.98 GB</td>
<td>539.31 GB</td>
</tr>
</tbody>
</table>
What is Savannah?

• “Collaborative communication platform”???

• Problem:
  
  • Many people work in one project
  • Outsiders want to discuss with network people

    => Communication must be well organized

  • Project offers a service

    => Users want to complain if it does not work

    => To whom?

  • Different people have different responsibilities

  • Group wants to develop software

• Solution:

  • Just listen for 27mins...
Structure of Savannah

- Savannah is project oriented
  - project content is completely independent for each project
  - Visitor must find the project he is looking for
  - provide access to tools

- Access to tools
  - Based on Role inside a project
  - Anybody <-> User <-> Member <-> Admin <-> me <-> ...
Example Problem

- **Campus Networking Team:**
  - 10 people at 7 locations run the campus network
    - Different tasks are managed by different people
    - Team Members need good coordination
  - 1000 people use this service
    - They need to find somebody to complain to
  - Several scripts need to be maintained...
    - ...by a couple of developers per script
  - Documentation needs to be published
    - Webserver is needed
    - A homepage with frequently updated information required
Example Solution

- **Group leader starts a project at** gridportal.fzk.de
  - Request the project
  - Set up the project
- **Demonstration will show**
  - Tour through prepared example project
    => https://gridportal.fzk.de/projects/net-demo
  - Requesting a project
Outlook

- Homepage will be enhanced by >WIKI< functionality
  - Savannah Team (Jaime)
- Bug trackers will be enhanced
  - Savannah Team (Mathieu) and CERN (Yves)
- Authentication methods will move towards Grid
  - CERN (Yves, Derek)
- Continuous Development of autobuild
  - EDG (Yannick Patois)
Invitation

• Interested in these tools:
  => You're welcome to create your project on gridportal.fzk.de

• You already have these tools:
  => Thank you for listening

• Questions - Suggestions - Complaints?
Backup Slides
Roles

What can I do if I am ...

- **Anybody:**
  - Look at *some* projects (read news, cvs, forum, ...), Submit bugs

- **User:**
  - Read access in *some* parts (e.g. above) of *some* projects
  - Subscribe to forums, write to some forums; look at some CVS
  - can become member in a project

- **Member:**
  - Read/Write access to all features in *his* projects including CVS, webspace, ftpspace, forums
  - (Limited) shell account

- **Admin:**
  - Can modify *his* project: Modify bug-tracker, change roles of members, approve users, delete mail/disapprove news, change License
Buzzword Compliance

• We do NOT use
  • OGSA
  • OGSI
  • Globus-2/Globus-3
  • Webservices

• However, seems to make sense to mention the buzzwords here!