
T3 Site Security



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What I will talk about in 15 mins

- 4 security habits that will keep your site out of trouble
- The real risks against your site
- Any questions/issues you have



4 Security actions that take care of many security troubles

- 1) Designate a security contact, if possible find a back up person. Register their contact info in OSG Information DB (OIM)
- 2) Pay attention to the security announcements sent from OSG Security team.
 - ❑ Any security issues affecting VDT software
 - ❑ Severe issues affecting other software, OS, commonly used tools, etc. A **courtesy effort** and only for the **severe cases**



4 Security Actions

3) Make sure you are up-to-date with security patches

- Severe patches are announced by OSG
- You can check Pakiti results
- Check OSG security blog for news

<http://osgsec.blogspot.com/>

4) Make sure you know who is your universities security officer and what the local incident response policy

■ What is Pakiti:

- A security status monitor, checks installed packages against announced vulnerabilities, marks missing updates, shows the severity of the



Real Risks against your site

- Grid does NOT add significant risk to your site
 - More secure than many commonly used services such as ssh or Windows services
 - Lots of attacks happen because of random port scans and/or weak passwords
- Residual risks: Insider threat
 - Remote VO users, you do not know face-face.
 - Non-interactive batch access only
 - Apply all OS-patches; no user can escalate to root
 - Apply all OSG-Atlas patches



Real Risks against your site

- ❑ Least amount of privilege sufficient for users jobs
- ❑ Know how to quickly turn off a VO user's account
- Every software has vulnerabilities. So does grid software
 - ❑ Read patch announcements
 - ❑ Follow recommendations from the developers
 - ❑ e.g. If you have a CE, do not allow fork jobs on the CE; or use glexec with pilot jobs; etc
 - ❑ If you cannot follow the recommendation, ask the developers/Atlas/OSG. Usually there is an alternative



Real Risks against your site

- What is the worst-case scenario?
 - Lose the SE, delete all the data
 - Tape backups, archives?
 - Attacker escalates to root, lose the system
 - University security officer must be informed first
 - Inform Atlas and OSG security teams
 - So far only happened during ssh attacks

Q&A on Tier3 issues

- Open discussion on questions, issues, worries, ... that Tier 3 site administrators have
- Bring your questions!

