



Security Best Practices Preview

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OSG All Hands Meeting – March 2009

OSG Security Team

- Mine Altunay (FNAL)
 - OSG Security Officer
- Doug Olson (LBNL)
 - OSG Deputy Security Officer
- Jim Basney (NCSA)
 - OSG Security Policy Officer
- Ron Cudzewicz (FNAL)
- Igor Sfiligoi (FNAL)
- Anand Padmanabhan (NCSA)
- Aashish Sharma (NCSA)

AHM Security Sessions

- Monday:
 - Site Admin Track III: Security Best Practices (11-12:30, 1:30-3)
- Tuesday:
 - Application Deployment Foundations Workshop: Application Security (9:35-9:55)
 - Data Management Foundations Workshop: Data Security (11:30-11:50)
 - VO Managers and Security Contacts Workshop (4-5:30)

Site Admin Track III: Security Best Practices

- This will be a hands-on session
- You will learn:
 - How to respond to a security incident
 - How to ban a user DN from your site
 - How to track down jobs submitted by a DN
 - How to locate relevant log files
 - Basic forensics steps for incident response
- Will include an open discussion on security best practices used by sites



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VO Managers and Security Contacts Workshop (Tuesday 4-5:30)

- We will discuss:
 - Our Security Philosophy
 - Our Security Architecture
 - Roles and Responsibilities
 - Incident Response Procedures

Security Best Practices: Quick Overview

- Report security incidents
- Keep CRLs up-to-date
- Keep synchronized with VO membership lists
- Protect against SSH attacks
- See also:
<https://twiki.grid.iu.edu/bin/view/Security/BestPractices>

Security Best Practices

- In case of a security incident involving OSG resources:
 - Contact your local/home organization's incident response team
 - Contact OSG security team:
 - security@opensciencegrid.org
 - <https://twiki.grid.iu.edu/bin/view/Security/IncidentDiscoveryReporting>

Security Best Practices

- Keep your Certificate Revocation Lists up-to-date
 - Run `fetch-crl` via cron every 6 hours

Critical for limiting exposure to compromised credentials

Security Best Practices

- Keep your site's VO list updated
 - Check if GUMS is contacting the VOMS server periodically and the gums-host-cron service is enabled on the CE
 - If using edg-mkgridmap ensure that the edg-mkgridmap service is enabled

Critical for limiting exposure when VO members are removed

Security Best Practices

- Protect against SSH attacks
 - Protect SSH private keys with good passphrases
 - Use firewalls to restrict SSH access so that SSH connections are allowed only from trusted hosts
 - Promptly apply security updates from software vendors, including operating system kernel updates



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Thanks!