

Working Group on Logging

TCB Action 06/04
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- Very easy when:
 - Dealing with monolithic systems
 - Only one programming language is used
 - Only one platform is used
- Not so easy when
 - Systems are distributed
 - Many different languages & libraries are used
 - Many different platforms are used
 - Developers are fairly autonomous

- Many non-matching logging levels
- Many different ways to configure logging
- Many different log message formats
 - Message metadata, i.e. timestamp, level, target
- Many different logging infrastructures
 - UN*x Syslog, Java platform, ...
- Admins must know the union of all!



Logging for infrastructure management

- Records a system's health and state
- Is required for system audits
- Needs to be configurable for changing environments or incidents
- Needs to integrate with existing logging persistence infrastructures

- Examine infrastructure management aspects
- Define a commonly used logging ontology
 - Logging levels
 - Logging domains (e.g. security, access, management, debug)
 - Message metadata
 - Persistence infrastructure
- Examine uniform configuration approaches
 - Configuration file formats?
 - Integrated with fabric management solutions?
 - Sensible default values (policy?)

- Short term topics
 - Define ontologies
 - Any issues that can be handled as GGUS tickets (based on the ontologies)
- Medium/Long term topics
 - Harmonised configuration files vs. default configuration (by policy)
 - Harmonised configuration interface
 - Integration with fabric management solutions
 - Will results in TCB level requirements
- Mandate proposal
 - Define scope
 - Lifetime 6 months
 - Outputs
 - Reach short term goals
 - Reach harmonisation in configuration files and interface
 - Develop requirements to be submitted to the TCB
 - Reports to the TCB on activities, executive for each TCB meeting