Administering Inca with incat

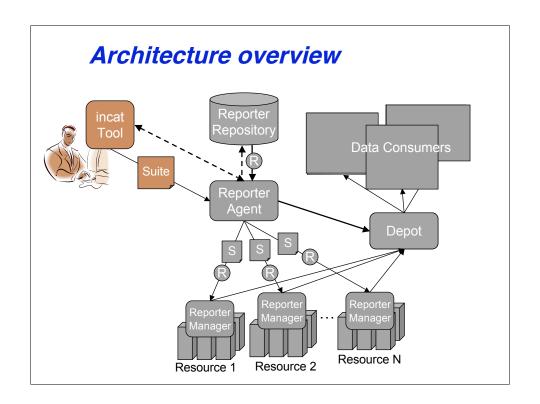
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Inca 2.0 Workshop February 23, 2006







Outline

- Launching incat
- Adding repositories
- Adding resources
- Managing suites and report series





Launching incat

- "inca start incat" to start
- Can work with a local file (--file *path*), a Reporter Agent (--agent *host:port*), or both
- Retrieves existing configuration from Reporter Agent and/or loads specified file





incat Display



- Tabs for repository, resource, and suite
- File Open/Save/Save As menu
- File/Commit sends to Reporter Agent





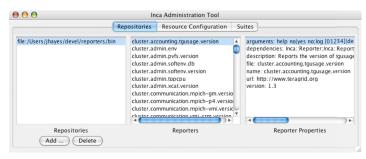
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Repositories Tab



- · Repository list, reporter summary, reporter properties
- · Reporter information retrieved from Reporter Agent
- Repository URLs relative to Reporter Agent





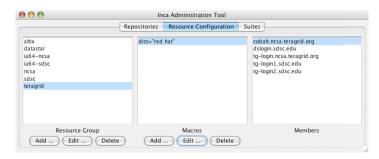
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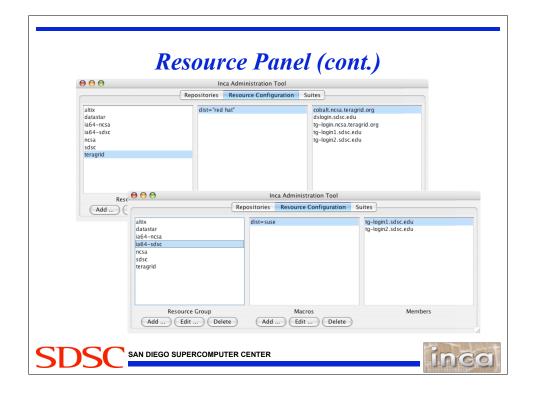
Resource Configuration Tab



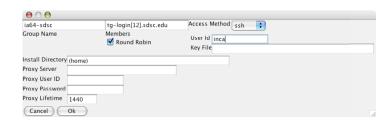
- · Resource group name, associated macros, member hosts
- · Groups of groups supported
- · Macro for most specific group applies







Using Ssh Resources



- Member specification allows choice (|) and character sets (||)
- · Round Robin resources considered equivalent--one Reporter Manager
- · Passwordless ssh key, for now





Using Globus Resources

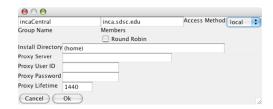


- Accessed by Reporter Agent via Globus CoG Java classes
- · Reporter Manager staging via GridFtp
- Proxy used by Reporter Agent to launch Reporter Manager and potentially by Reporters





Using the Local Resource

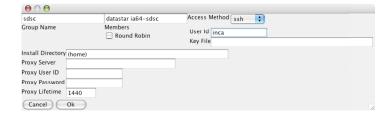


- · Allows running reporters on the same machine as the Reporter Agent
- Used by default installation





Grouping Resources



• Directory, proxy info, etc. like macros--most specific value is used for each host





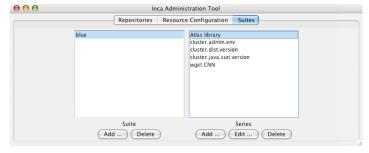
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Suites Tab

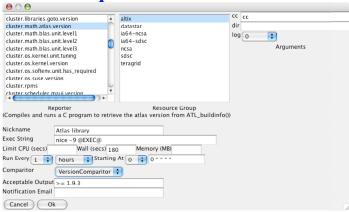


- Single/multiple series choice up to administrator
- Report series named after reporter or given "nickname"





Report Series Editor

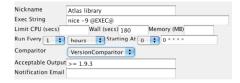


- · Select reporter, resource group, and command-line argument values
- · Argument list determined by reporter
- · Reporter description appears below reporter





Report Series Editor (cont.)



- Nickname useful in later report display
- Exec String allows specialized execution
- · Reporter killed and error report stored if limits exceeded
- Run frequency uses cron syntax
- · Comparitor takes action on unacceptable output





Using Macros in Report Series cluster.communication.vmi-crm.version altix datastar cluster.communication.vmi.unit cluster.compiler.any.unit cluster.compiler.apc.version cluster.compiler.gc.version cluster.compiler.intel.version cluster.dist.version cluster.diver.myricom.gm.version cluster.diver.myricom.gm.version cluster.diver.myricom.gm.version cluster.filevystem.gpfs.unit.createfile cluster.filesystem.gpfs.version dist @dist@ Arguments Resource Group Reporter (Reports the Linux distribution version) Nickname Exec String Comparitor REComparitor Acceptable Output Notification Email Cancel Ok @macro@ expanded for each host Multi-valued macros expand to multiple report series inca SAN DIEGO SUPERCOMPUTER CENTER