

Firewall Issues Research Group

OGF 21 – Seattle, USA – October 17, 2007.

Chairs: Inder Monga, Ralph Niederberger,

Leon Gommans

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Agenda Wendesday, October 17, 2007



5:00 [5'] Agenda Bashing, note-taker, charter discussion, IPR statement,

Chair Updates

Inder Monga

5:05 [20'] Firewall Issues Document Update/Status

Thijs Metsch

5:20 [-'] To WG or Not

Ralph/Inder

FI-RG Goals



- Study barriers and propose solutions to interorganization grid deployment due to mid-boxes managed by varied administrative domains
 - Firewalls
 - NATs
 - VPN gateways
 - Application-level gateways ...





 Collect use-cases, classify issues, existing and new solutions, gap-analysis, research...

Enthuse standards, explore grid-friendly solutions and influence vendor implementations

Status of document #2



- 2. Requirements from document #1
- <u>2.1 General Requirements</u>
- 2.2 Requirements on Hardware on the communication path
- 2.3 Requirements for the Support of Grid Middleware Solutions/Protocols
- 2.4 Requirements on Data Transfers and Storage
- 2.5 Requirements on Performance and Configuration
- 3. Solutions
- 3.1 High speed firewalls
- 3.2 Load balancing firewalls
- 3.3 Dyna-Fire
- 3.4 Cooperative On-Demand Opening
- 3.5 Generic Connection Brokering
- 3.6 UDP Hole Punching
- 3.7 Application Level Gateway / Proxies
- 3.8 A framework for Token Based Firewalling in Hybrid GMPLS networks

Group Progress vs Charter



- An inventory of the type of issues when Grid jobs have to deal with middle-box functions, application level gateways, VPN style gateways, etc. Describe and classify the issues in document #1
 - Published as GFD-I.083
- 2. An evaluation of existing middle-box (signaling-) protocols and functions. Recognize possible limitations and produce a list of requirements
 - What is the deployment story? Reasons why these are not well deployed
 - Formal document started, soliciting more contributions.
- 3. An evaluation of approaches and solutions such as application level gateways, host based firewalls, VPN style gateways etc.
 - Intent is to apply solutions to use-cases and do a "gap-analysis"

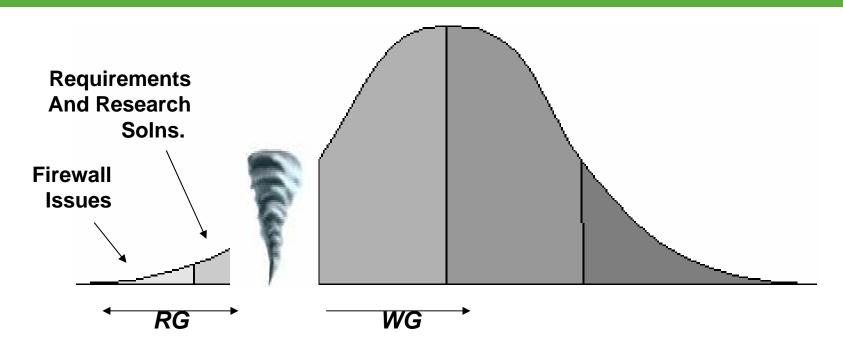
Group Milestones



- GGF13: Charter discussion and group volunteers (done).
- GGF14: Collection of existing documents with Group discussions (done)
- GGF15: First draft of document #1 and Group discussions. (done)
- GGF 16: RG-last call and submission of document #1.
- GGF 17: RG last-call for use-cases document. Discussion on solutions document. (done)
- GGF 18: Submit use-case document for public comment. Form and initiate solutions draft team (done)
- OGF 19: Use-cases document published. Continue discussions and contributions to solutions draft
- OGF 20: First draft of solutions and requirements draft
- OGF21: Finalize solutions for public comment, initiate gap analysis and standardization opportunities
- OGF 22: Publish solutions drafts, Gap analysis between standards and solution requirements
- OGF 23: Publish gap analysis and start standardization activity (in OGF or other)

FI-RG Status and Proposed Next Steps





- We have reached the Chasm as concerns active participation
 - Most of the few firewall researchers do not attend OGF
- Feel the need to spawn of a WG in order to continue momentum and attention
- Living with the pain?

Next steps – WG?



- Start on specification/work around the "virtualization" of firewall.
 - This would be a web-services interface that would be part of Grid middleware that will broker between the grid requests and firewall configuration to bypass traffic.
 - This can be dynamic, offline or inline.
- Prototype interoperability test
 - Display your virtualization prototype at OGF 23?

Contribute



Mailing list: fi-rg@ggf.org

 Projects page: https://forge.gridforum.org/sf/projects/fi-rg

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Backup