

Realm-Based Redirection

draft-ietf-dime-realm-based-redirect-05

Tina Tsou
Ruibing Hao
Tom Taylor

Recent Activity

- -04 in January in response to WGLC
- -05 two weeks ago to meet a concern raised by Avi Lior and not fixed in -04
- Issues raised during WGLC have been mostly satisfied. (A couple of changes needed regardless of results of discussion here.)

Details of changes in backup charts.

Issue: Redirect Agent vs. Server

- Avi Lior made the point that RFC 3588[bis] does not mention application-specific behaviour by redirect agent.
 - In any event, redirect agent would not be able to advertise its support for realm-based redirection.
- Hence redirection must be performed by the application at a server.
 - ... and only a proxy or the client can reroute based on the response.
- Made this change in -05.

Looking for confirmation that changes were valid.

Issue: Handling of Request With Destination-Host AVP

- Sebastien Decugis notes that Destination-Host AVP normally only added to requests subsequent to initial request of session.
- Current text has server report UNABLE_TO_DELIVER if Destination-Host AVP present.
- Current text also allows proxy to delete original Destination-Host if present.
- Finally, current text allows application to specify whether already-established sessions get handled by original realm rather than being redirected.

Current text somewhat inconsistent. How should this be sorted out?

Looking Ahead

- Issue -06 this week or next.
 - Have to re-insert text updating RFC 3588bis to allow new use of Redirect-Host-Usage and Redirect-Max-Cache-Time AVPs.
- New WGLC and move forward.

Thanks to earlier reviewers for correcting my many errors and misunderstandings!

Backup Slides

Changes From -03 to -04

- Added RFC 2119 language to Section 2 on adding realm-based redirection to an application.
 - Also added a paragraph on the need for a redirect agent to support the application, triggering Avi's comment.
- Dropped language about what was negotiated with peer, focussing only on application support.
- As part of this, said that redirect agent “MUST” report `DIAMETER_UNABLE_TO_DELIVER` if request was actually for an application for which did not support realm-based redirection
 - Assumed that AAA network could be configured to deliver only the right applications to the redirect agent.

Changes From -03 to -04 cont'd

- Added that if request contains Destination-Host AVP, it MUST be rejected with UNABLE_TO_DELIVER error.
- Added text allowing redirect agent to insert Redirect-Host-Usage and Redirect-Max-Cache-Time AVPs in answer and moved text updating RFC 3588 to reflect new usage.
- Spelled out the actions of other nodes in greater detail.
- Added a note that activating realm-based redirection could disrupt established sessions.
- Added setting of the M flag for the Redirect-Realm AVP.

Changes From -04 To -05

- Added new use case and author.
- Changed base document from RFC 3588 to 3588bis.
- Modified phrasing of usage in applications by saying the application needed to reference this document normatively.
- Fundamental change: redirection now performed by server rather than redirect agent.
- Added preliminary section on configuration of server.
- Added text saying application could specify whether redirection applies only to initial messages or to any message of a session. (Text probably misplaced.)

Changes From -04 To -05 cont'd

- Dropped text updating 3588 for new usage of Redirect-Host-Usage and Redirect-Max-Cache-Time AVPs.
- Split “Other Node Behaviour” into “Proxy Behaviour” and “Client Behaviour”.
 - Relay agent cannot reroute because request needs to be changed. Should this be mentioned?
- Allow multiple instances of Redirect-Realm AVP.
- Added behaviour if client sees other responses from realm different from the one to which it sent the request.