

# incubator-guacamole-dev mailing list archives

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**From** Mike Jumper <mike.jum...@guac-dev.org>  
**Subject** Testing needed for 0.9.10-incubating  
**Date** Tue, 23 Aug 2016 21:09:43 GMT

Hello all,

It looks like the planned scope of 0.9.10-incubating has been satisfied, and there are no further open issues related to 0.9.10-incubating changes.

Included in this email is a list of all changes that have gone into the Apache Guacamole (incubating) repositories since the pre-Incubator 0.9.9 release. Links to the relevant issues in JIRA are included for context, as well as some brief background info where appropriate.

To all those able, *\*please test as much as possible\**. Once it has been reasonably-verified that there are no blocking issues, the next logical step will be to move forward with a release VOTE.

For now, we need:

- 1) To verify that previously-working things are not suddenly broken (regressions).
- 2) To verify that features/fixes intended for 0.9.10-incubating do indeed work as intended.
- 3) To verify that changes for 0.9.10-incubating are accurately reflected in the documentation.

The main repositories to test against are incubator-guacamole-client and incubator-guacamole-server, both of which must be installed for any Guacamole deployment (see the docs):

<https://github.com/apache/incubator-guacamole-client>  
<https://github.com/apache/incubator-guacamole-server>

The Guacamole documentation itself is in the form of a manual that is kept up-to-date with each release (or at least should be - that's part of what needs to be tested here):

<https://github.com/apache/incubator-guacamole-manual>

If anyone has any questions, please ask and we will do our best to assist.

Thanks!

- Mike

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#### ----- A. Screen sharing -----

Explicitly supported by the database authentication backend. Can also be used by extensions or Guacamole-driven applications in general (when written to use the appropriate parts of the APIs).

When granted permission, users can generate temporary share links for their active connections. Those links are invalidated when they disconnect.

- \* GUACAMOLE-5: Allow creation of per-connection share links  
(<https://issues.apache.org/jira/browse/GUACAMOLE-5>)
- \* GUACAMOLE-13: Finally stabilize and merge GUAC-844 to master  
(<https://issues.apache.org/jira/browse/GUACAMOLE-13>)
- \* GUACAMOLE-52: Do not delete history records  
(<https://issues.apache.org/jira/browse/GUACAMOLE-52>)

#### ----- B. Screen recording -----

All supported protocols (VNC, RDP, SSH, and telnet) can be configured to record sessions to disk for later playback. This configuration is specified on a per-connection basis. Session recordings are Guacamole protocol dumps of the server -> client side of the conversation, and can be converted to a normal video stream using the "guacenc" utility, which is part of the guacamole-server build.

Additionally, text-based protocols (SSH and telnet) can record sessions as text, using the same format used by the "script" and "scriptreplay" commands.

- \* GUACAMOLE-4: Implement session recording  
(<https://issues.apache.org/jira/browse/GUACAMOLE-4>)
- \* GUACAMOLE-16: Implement text-based screen recording for SSH/telnet  
(<https://issues.apache.org/jira/browse/GUACAMOLE-16>)

#### ----- C. Streamlined file transfers -----

The web application will now handle file transfer via HTTP. This speeds things up, removes limitations on file size imposed by JavaScript, and removes the need for initiating the actual download by clicking a link.

File transfer is still handled via the Guacamole protocol. The streams are dynamically intercepted, stripped, and exposed via HTTP by the web application in response to specific REST API requests. This is strictly a frontend change and does not affect the core Guacamole stack and protocol, which continues to handle file transfer as it always has.

- \* GUACAMOLE-44: Upload/download of files that are more than 1 GB fail  
(<https://issues.apache.org/jira/browse/GUACAMOLE-44>)

#### ----- D. RDP audio input -----

Support for RDP's "AUDIO\_INPUT" channel. Configuring this is tricky, and Microsoft's documentation is somewhat misleading. It should work out-of-the-box for Windows 7, while versions of Windows Server will need group policy changes AND the "Remote Desktop Session Host" feature installed.

- \* GUACAMOLE-25: Add support for audio input  
(<https://issues.apache.org/jira/browse/GUACAMOLE-25>)

#### ----- E. Keyboard improvements -----

There are new keymaps which need verification, as well as some fixes. In particular, use of the keypad was broken for RDP in 0.9.9. This should be fixed now.

- \* GUACAMOLE-6: Netherlands keyboard layout created  
(<https://issues.apache.org/jira/browse/GUACAMOLE-6>)
- \* GUACAMOLE-7: Wrong French keyboard layout  
(<https://issues.apache.org/jira/browse/GUACAMOLE-7>)
- \* GUACAMOLE-15: Japanese keymap support on RDP  
(<https://issues.apache.org/jira/browse/GUACAMOLE-15>)
- \* GUACAMOLE-19: "@" characters don't work with French keyboard under IE11  
(<https://issues.apache.org/jira/browse/GUACAMOLE-19>)
- \* GUACAMOLE-51: Keypad not properly mapped in RDP, SSH, and telnet  
(<https://issues.apache.org/jira/browse/GUACAMOLE-51>)

#### ----- F. Local clipboard integration -----

Guacamole will now use the standard-but-clunky Clipboard API (`document.execCommand()`) to attempt to read the local clipboard. If this fails, things continue to work as they have in past releases (clipboard access via the Guacamole menu/sidebar).

IE11 will prompt the user to allow clipboard access, which is actually pretty nice. For Chrome, there is a third-party extension which allows the user to grant access on a per-domain basis:

<https://chrome.google.com/webstore/detail/clipboard-permission-mana/ipbhneeanpgkaleihlknhjiaamobkceh>

- \* GUACAMOLE-24: Directly integrate local clipboard  
(<https://issues.apache.org/jira/browse/GUACAMOLE-24>)

#### ----- G. Theming extensions -----

- \* GUACAMOLE-9: Allow modification of HTML via extensions  
(<https://issues.apache.org/jira/browse/GUACAMOLE-9>)

#### ----- H. Docker improvements -----

Beware that the Docker images now live in the incubator-guacamole-client and incubator-guacamole-server repositories (see GUACAMOLE-27).

- \* GUACAMOLE-8: Allow concurrency properties to be configured within Docker (<https://issues.apache.org/jira/browse/GUACAMOLE-8>)
- \* GUACAMOLE-21: Support LDAP within Docker image (<https://issues.apache.org/jira/browse/GUACAMOLE-21>)
- \* GUACAMOLE-27: Bring Docker images into new git repositories (<https://issues.apache.org/jira/browse/GUACAMOLE-27>)
- \* GUACAMOLE-50: Update Docker containers to use Java 8 (<https://issues.apache.org/jira/browse/GUACAMOLE-50>)

## I. User management

Support for role-based access control within LDAP. Also a convenient "Clone" button for users if the database authentication backend is being used.

- \* GUACAMOLE-12: Allow LDAP role-based access control for guacConfigGroups (<https://issues.apache.org/jira/browse/GUACAMOLE-12>)
- \* GUACAMOLE-14: Add support for cloning existing users (<https://issues.apache.org/jira/browse/GUACAMOLE-14>)

## J. Partially-reverted clipboard changes

GUACAMOLE-55 was intended to add support for arbitrary clipboard data, specifically copy/paste of images for RDP. The Guacamole protocol has supported this for some time, but the web application only handled text for simplicity's sake.

After the task grew in complexity, the RDP portion of those changes was removed from scope and GUACAMOLE-55 was narrowed to just client-side changes. Once THAT grew in complexity (mainly due to browser quirks surrounding content-editable divs), I partially reverted those changes for the sake of a stable 0.9.10-incubating.

The "non-risky" parts of GUACAMOLE-55 still remain, namely a better internal representation of clipboard data and a convenient abstraction of the clipboard input field, thus the clipboard functionality needs regression testing, even though the original task was pulled from the release.

- \* GUACAMOLE-82: Clipboard behavior regressions since GUACAMOLE-55 (<https://issues.apache.org/jira/browse/GUACAMOLE-82>)

## K. Concurrency options

Administrators can now restrict the total number of connections used by a server.

For the cases where balancing groups may route users to any one of several desktops, administrators can now enable "session affinity" on those balancing groups, ensuring that users are directed to the same underlying connection consistently (until they logout from Guacamole).

- \* GUACAMOLE-26: Add support for overall concurrency limits

(<https://issues.apache.org/jira/browse/GUACAMOLE-26>)

- \* GUACAMOLE-53: Add support for session affinity within balancing groups  
(<https://issues.apache.org/jira/browse/GUACAMOLE-53>)

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#### L. Translations

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- \* GUACAMOLE-18: Fix typo in French translation  
(<https://issues.apache.org/jira/browse/GUACAMOLE-18>)
- \* GUACAMOLE-22: Update missing french translations  
(<https://issues.apache.org/jira/browse/GUACAMOLE-22>)

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#### M. Exposing terminal output to JavaScript

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Not the most easily testable feature, this is mainly useful to those that have written applications using the Guacamole API. The protocols which leverage the terminal emulator built into guacd (SSH and telnet) now expose their output via the Guacamole protocol's "pipe streams" (essentially named pipes). This output can be grabbed and handled by client-side JavaScript for whatever purpose can be imagined.

- \* GUACAMOLE-17: Allow terminal output to be redirected to pipe streams  
(<https://issues.apache.org/jira/browse/GUACAMOLE-17>)

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#### N. Miscellaneous bugs

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- \* GUACAMOLE-10: Keyboard focus is permanently lost after clicking the URL bar in IE11 (<https://issues.apache.org/jira/browse/GUACAMOLE-10>)
- \* GUACAMOLE-11: No error screen during an invalid SSH login in 0.9.8  
(<https://issues.apache.org/jira/browse/GUACAMOLE-11>)
- \* GUACAMOLE-23: `__guac_socket_fd_select_handler()` must always init `fd_set`  
(<https://issues.apache.org/jira/browse/GUACAMOLE-23>)
- \* GUACAMOLE-66: Remove usage of Apache Commons Codec Library  
(<https://issues.apache.org/jira/browse/GUACAMOLE-66>)
- \* GUACAMOLE-67: I/O error in WebSocket can cause connection tracking to fail  
(<https://issues.apache.org/jira/browse/GUACAMOLE-67>)

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