What is Apache Guacamole™?

Apache Guacamole™ (hereinafter only Guacamole) is a clientless remote desktop gateway. This gateway accesses desktops / consoles via VNC, RDP or SSH on one side and makes them available in a browser on the other side.

Clientless in this case means that no software has to be installed on the PC/tablet or a browser add-on. You only need a browser!

Guacamole is written in Java and is published as Free and Open Source Software under the Apache License V. 2.0. Commercial product support and other services around Guacamole are offered by companies. These companies provide products based on Apache Guacamole™, develop them further and return the development to the Apache project.

If appropriate prerequisites and requirements are given, Guacamole can replace or supplement an installation and operation of MS Terminalserver + Paralles RAS/Citrix Virtual Apps/... Thus, high license costs and a complex installation / configuration are avoidable.

Due to the pure operation in the browser, a high level of security is guaranteed, since the client does not directly access the target systems (and vice versa). With a SSL encryption (HTTPS) and secure authentication (2FA) you can/should/must secure the access.

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Links

Apache Guacamole™  
What is Guacamole?  
GitHub  
Using Guacamole  
Administrating Guacamole  
FAQ  
Live Demo  

https://guacamole.apache.org/  
https://github.com/apache/guacamole-server  
https://guacamole.apache.org/doc/gug/administration.html  
https://guacamole.apache.org/faq/  
https://demo.glyptodon.com
Guacamole in EGroupware

The EGroupware Guacamole app is installed as a package to an EGroupware standard installation. The docker container is downloaded, the reverse proxy is configured, Guacamole is integrated as an app and Guacamole is ready to use. Described in detail under [0].

EGroupware can authenticate against its own MariaDB/MySQL database, against an AD, LDAP or mail. Guacamole then authenticates via OAuth against the OpenID/OAuth2 server built into EGroupware.

Two-factor authentication is possible with software authenticator and USB/NFC sticks. The transport encryption is done by the EGroupware proxy. Thus the access to Guacamole is secured.

For the integration EGroupware and Guacamole access database tables/views together. Thus, connections can be created and authorizations assigned from EGroupware. In Guacamole the users and groups from EGroupware are available.

The installation and configuration is therefore extremely lightweight, especially with an existing EGroupware installation. Also an installation of EGroupware/Guacamole only for the operation of Guacamole is very fast and easy.

Links

EGroupware/Guacamole Installation/Troubleshooting
https://www.egroupware.org/en/guacamole/
https://github.com/EGroupware/egroupware/wiki/Apache-Guacamole-managed-by-EGroupware

[0] Apache Guacamole - The integration into EGroupware
https://help.egroupware.org/t/uk-apache-guacamole-the-integration-into-egroupware/74734
https://www.egroupware.org/en/egroupware-support/

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EGw-Flyer Guacamole v1 from 15 May 2020
The text document can be requested from the Community Manager for further use.
Available as a current PDF at: https://www.egroupware.org/en/community/