

Unified authentication for access to university web services: case of ouargla university



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Abstract:

Our work is to develop a strategy for unification of authentication for different platforms used by university (Zimbra, Moodle and Dokeos) These platforms connect them to the common benefits, but this poses a problem for users and administrators to create and saved. or modified the username / passwords for each platform names. So the need to unify the authentication of all platforms of our university is paramount, and offers comfort and flexibility.

The concept that a solution is chosen as unified wholes authentication platforms in an LDAP directory.

Keyword: Authentication, Zimbra, Moodle, Dokeos platform, Password, strong authentication

Introduction:

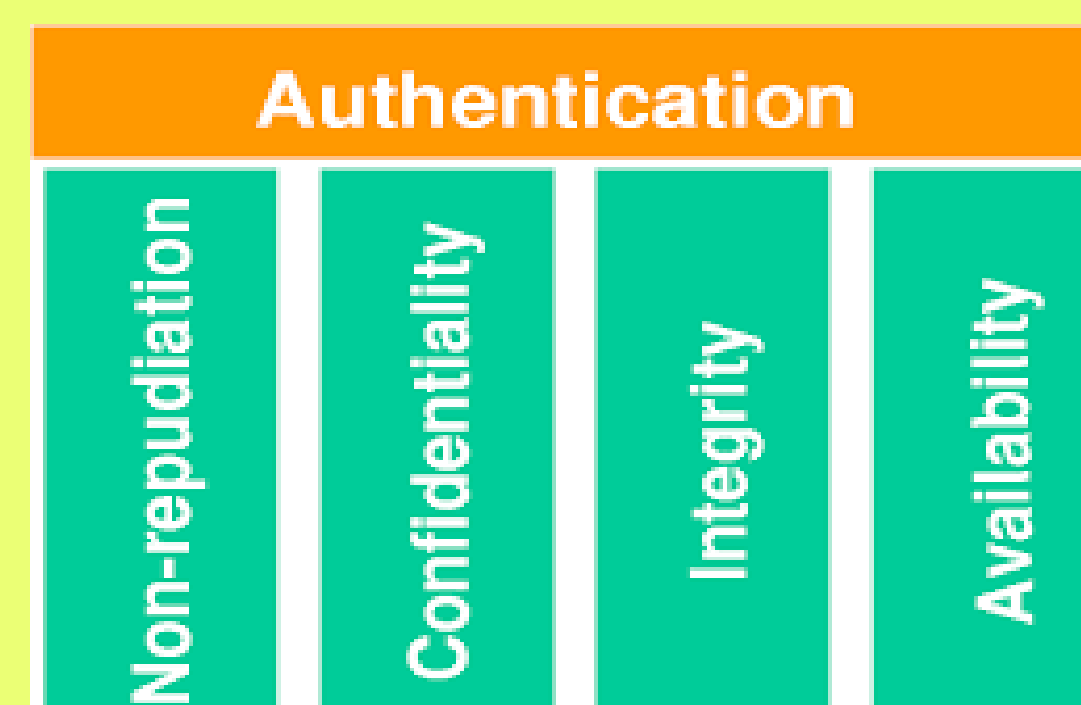
The information system represents an essential asset of the company, which must be protected.

Information is an asset to all individuals and businesses. Information Security refers to the protection of these assets

in order to achieve as the following figure:[2]

Identification is the communication of an identity to an IS. The authentication goal is to assert an identity, but the scope of authentication methods is very large[1].

Our work focuses on **unified authentication** for different platforms university using an LDAP directory.



Analyse & Discussion:

The first method

In this method we have installed Open LDAP (server) as a directory and we have configured Zimbra for this Open LDAP, all user accounts are grouped in this directory they will access other platforms with a couple of (unique ID, passwords).

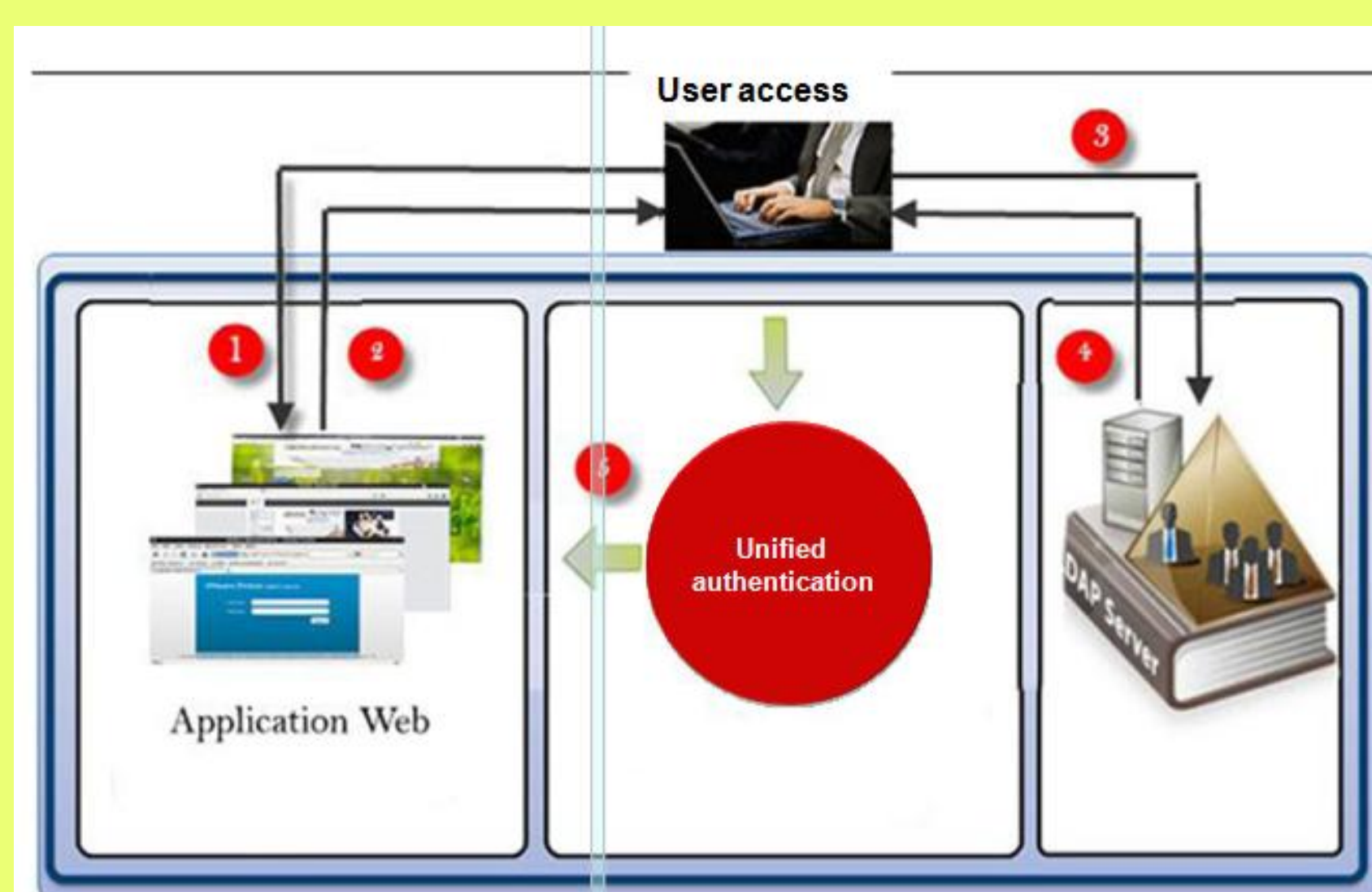
second method

In this method we have installed Ldap Zimbra which is an LDAP with the mail server Zimbra. This ldap zimbra is configured with Zimbra itself, so instead of installing an ldap then configure it, we will reduce the work and we use ldap zimbra, this method is easier than the first because we add directly to zimbra.

Result:



Material & Methods:



First method: unified authentication with OpenLDAP.



Second method: unified authentication with Zimbra LDAP.

Conclusion:

Our work can simplify access to different platforms in the university environment with a single connection, privacy and good security for the user. This work is based on an LDAP server which is a directory for our database that contains teachers and students.

References

- [1] Syed Zulkarnain Syed Idrus, Estelle Cherrier, Christophe Rosenberger, Jean-Jacques Schwartzmann A_Review_on_Authentication_Methods 2003.
- [2] <https://www.auvik.com/media/blog/authentication-protocols/2018-2013>.

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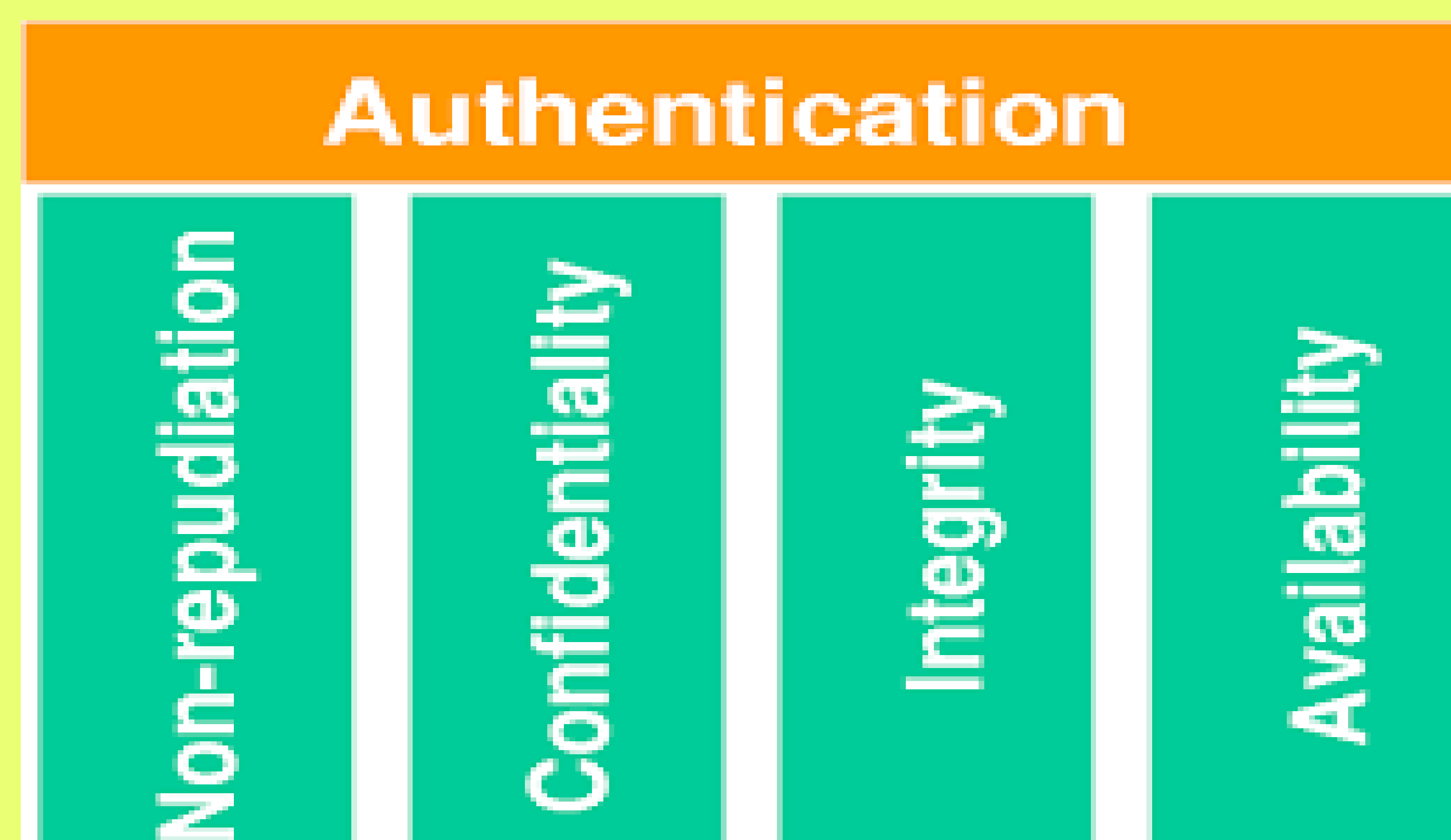
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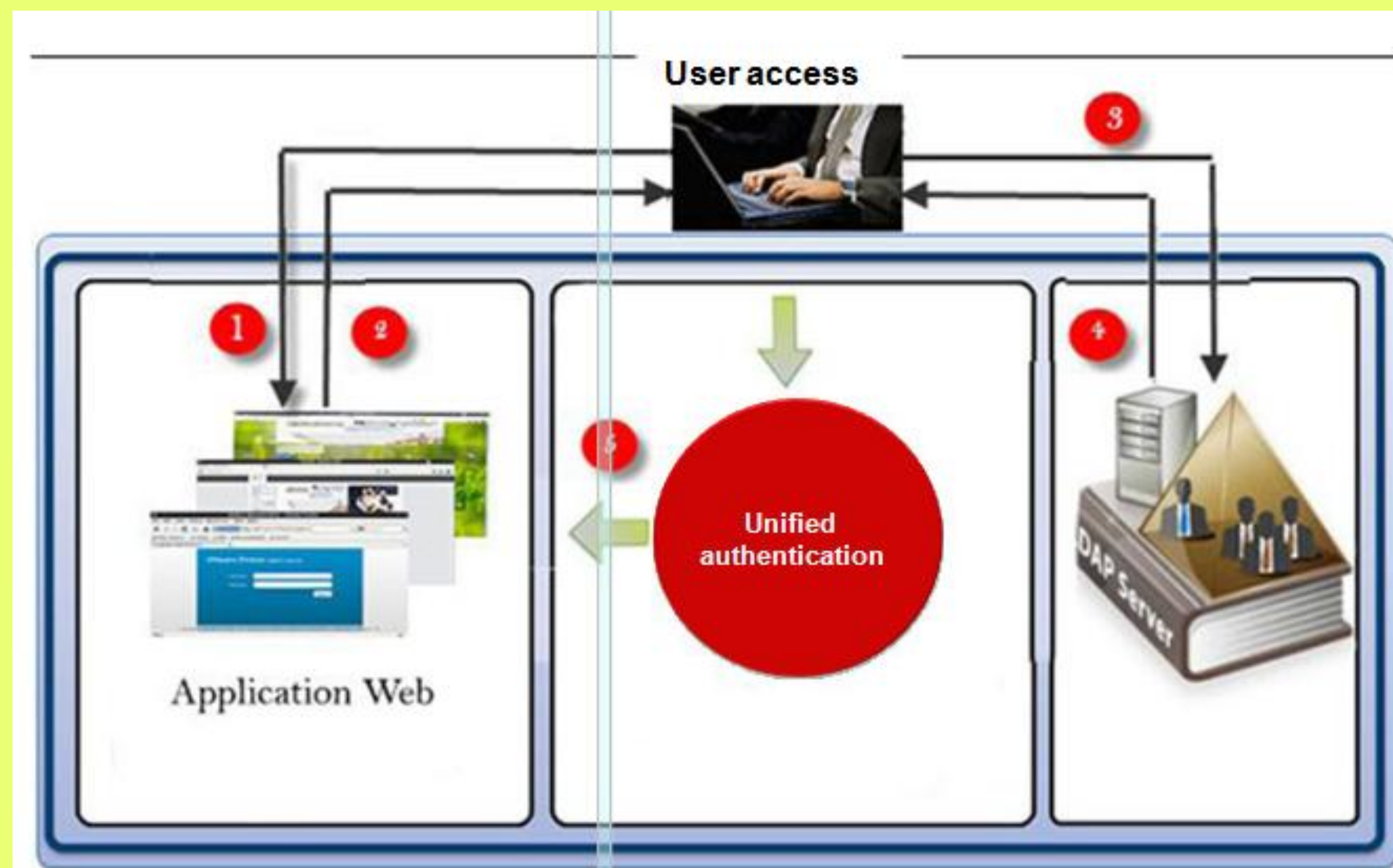
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