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Database Security Issues and Challenges in Cloud Computing (Review) Hajer Mohammed farina¹, Salem Husein Ali Almadhun², Aimen M. Rmis³, Ramadan Faraj Swese⁴

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Abstract:

Today most institutions have adopted cloud computing and moved from traditional database to cloud database as a result of low expenditures for data management and more focus on the product. the cloud has revolutionized the concept of data storge and access in institutions which provided flexible and effective solution .it also solved the problem of the ability to expand, flexibility availability and affordability. However, the challenge of cloud data security, and enhancing public acceptance of cloud computing in general remains a major concern in this paper. the research that took into account security issues and problems associated with adopting cloud database in addition to considering the advantages, disadvantages, challenges and solutions to move to cloud database and suggesting some recommendations.

Keywords: Cloud Computing, Privacy, Security, Cloud Database INTRODUCTION

Cloud database security is a set of technologies and procedures used to protect data in the cloud and protect it from malicious attacks. Protects data by verifying the identity of users and devices, controlling access to data and resources, and following regulatory requirements this security method protects against common threats such as DDOS attacks ,viruses hackers unauthorized access and data breaches in cloud environments .the concept of cloud computing is running out as communication and digital data processing progress and storge requirements change .cloud computing is a means of processing storge and managing data on demand using a network of remote servers connected to the internet paying only for what you use .they provide access to a range of shred resources rather than local server [Ahmed and Hassan, 2018]. Essentially, cloud service providers offer different cloud service to their users when cloud computing is used ,data is distributed across several places as resources that can be accessed remotely by different users throughout the cloud in the cloud architecture ,power and secure computing are paramount .any organization that tries to store data either on host files or on a public cloud loses capacity on physical access to servers that have their own data this makes potentially sensitive data vulnerable to internal hacking . in 2017, Equifax one of the largest credit agencies in the world, was subjected to a security breach that led to the leakage of sensitive data to hundreds of millions of people a loophole in open source software was exploited to leak data the company suffered heavy financial losses due to security negligence hence, we see the need to pay attention to security updates and institutions must have clear plans to deal with such incidents. [Thomas (2019]

Cloud Computing Overview

Cloud computing provides an alternative to the local data center. When setting up a local data center the team is responsible for every details. This includes configuring firewalls and network installing the operating system setting up virtual storage acquiring and installing hardware and configuring data storage after all sitting are completed the team is responsible

for maintaining them for the duration of their existence. As everyone knows cloud computing technology allows organization of all size to store data in the cloud and retriever it using an Internet connection from anywhere and anytime [Ahmed and Hassan (2018)].

Cloud computing architecture Cloud computing a shifter considers of combination, eventoriented, and service-oriented, architecture [m.malik.p(2016)].

the cloud computing consists of two distinct parts:

Front end: the front end interacts with the customer integration with cloud computing services can be facilitated through clint-side ABIS and applications the front -end includes internet browsers, thin and chubby client mobile devices, tablet and web server

Backend: use it by the services provider the backend monitors all resources associated with the provision of cloud computing services it consists of many things such as large data storage security features, virtual machines deployment models, server and traffic control methods.

The cloud environment provides a user – friendly web interface that allows users to easily manage Ther network resource storage commuting and application

Type Of Cloud Computing Model

Cloud refers to cloud resources that are owned and managed by third party many computing resources such as services software and storage can be accessed online

Private cloud : private cloud an individual an individual company or other organization can book a pool of cloud network resources called private cloud the location of the private cloud can be either in the company's data center or with another provider.

hybrid cloud: cloud computing refers to the storage and. processing of data in both the public and private cloud, with the two types of clouds linked together through technological means the hybrid cloud deployment options take advantage of the flexibility offered [m.malik.p(2016)].

software as a service: (**saas**) the term software as a service describes a model for online application delivery the user does not need to install the software on their computer all they have to do is access it online[patel .r.k(2023)].

platform as a service: (pass): pass allows users to access a development environment so they can install their own apps and write their own code users are allowed to create their own applications that use the service providers infrastructure application management capabilities can be obtained from a preset set of operating system and application server provided by service as examples include [ruby J2EE], and lamp (linux, apache, mysql, and php) [patel.r.k (2023)].

infrastructure as a service Iaas: iaas provides on- demand access to a wide range of computing resources such as data storage networks computers operating systems and storage devices. users can access offers via wan or the internet iaas allows users to build virtual machines [patel .r.k(2023)].

Database as a service (DBAAS): DBAAS is an operational and architectural model that allows service providers to provide DBAAS to larger a number of customers .

Cloud components Cloud computing consists of three main components

client hardware: cloud computing allows users to interact with the service through client hardware

distributed servers: servers look like they are collaborating with each other while being distributed to multiple location.

Datacentres: the server cluster is called a datacenter .

Database as a service DBAAS Overview:

cloud computing services typically offer different types of resources leading to a more widespread categorization of cloud types software platforms and infrastructure this study



mainly focuses on the type of DBAAS service AAS service baas can be considered an example of a SAaS service DBAAS is a cloud service that enables applications and is managed by a public or private cloud operator this service relieves the applications team of the burden of handling administrative tasks for standard databases application developers should not pay a database administrator DBA to manage the database or be database experts when using DBaas,with primary and secondary databases configured in a real application cluster RAC for high availability and load balance this architecture ensures that the application continues to work even if a database case fails ,providing a robust and scalable solution for various enterprise application. [F.H.U. etal 2011].

Database security

the success or failure of any organization depends heavily on its data as most organizations use databases to store vital or important data the data contains all of the organization's credentials and sensitive information not just user details many organization's data spend large sums of money on database security and given the importance of data database security is critical in the public and private sectors so it is necessary to secure the data, availability database security is essential to protect sensitive data ensuring the security of databases has become critical as businesses increasingly rely on them to store and process vast amounts of data. [M Malik P(2016)], [Mohammed razid Mohammed novik 2022]

figure 1 shows the three main elements of database security.



Data security requires three key elements availability integrity and confidentiality .

Confidentiality: means that data can only be used by authorized users.

Integrity: indicates that a particular person must manage data using a particular method .

Availability: means that information must be available to authorized users in a timely manner. [M Malik P 2016]

Database attacks

database attacks are mainly divided into two categories:

1. **negative attacks**: negative attacks target surveillance the attacker sees the data in the database although they are less dangerous than active attacks they are less challenging

fixed leakage through this passive offensive method the attacker monitors the database snapshot to extract normal text values at a predetermined time fixed leakage focuses only on the data in the database occurs at predetermined times and does not take into account any changes in that data

linked leakage: these passive attacks work by creating a link between a value in the database and its place in the index then the attacker can get the normal text value to carry out a linked leak attack you must first search the database index for the specific data that will be targeted

dynamic leakage this passive offensive method involves monitoring the database for a certain period of time to create the normal text value

2. **active attacks:** active attacks require variable data which makes them more annoying than passive attacks

delivery attacks: in this active attack there are two possible values for the ciphertext and one is replaced by the other.

counterfeit attacks: in this active attack the a ciphertext is replaced with a new newly created value .

Restart attacks in this ongoing attack the ciphertext value is either destroyed or replaced with an older version that was previously updated

3. **SQL injection attacks:** injecting SQL instructions into SQL statements by entering a web page is a simple way in which malicious people can hack databases there are several subtypes of SQL injection attacks including

matching attacks: databases are a common target for matching attacks because of areas of execution this type of attack an attacker typically passes through authentication pages and obtains access to those that assist in execution by entering SQL codes into one or more fields. [M Malik P (2016)]

Popular databases in cloud computing [Ahmed and Hassan,2018]

- Strom DB
- PostgreSQL
- Mongo Lab

Google Cloud

GCP uses about 9.5% of the cloud computing market and has expertise in artificial intelligence and data analytics

- Google Cloud SQL
- GC Bigtable
- Google Cloud Datastore
- GC Spanner

Microsoft Azure

Azure offers hybrid cloud computing solutions and advanced AI services catering to multiple enterprise needs and providing a vast global network Microsoft Azure has a 22% market share and is heavily focused on hybrid cloud solutions and dedicated enterprise services

- MA Table Storage
- Microsoft Document DB
- Microsoft SQL Database
- Oracle Database
- IBM

Amazon

DynamoDB

- Amazon Aurora
- Simple DB

Literature Review

we discussed the most important security problems related to cloud databases and some possible solutions to fix them firstly the researchers investigated security concerns related to cloud databases it provided the means to address the problems to some extent by taking advantage of these facts

cloud database security issues

• **R.Patel**(2023) the importance of encryption in protecting data stored in cloud databases where it contributes significantly to enhancing data security the researchers also stress that in order to activate strategies to protect privacy it is necessary to go to ways to solve problems they discuss data protection needs and a look at the basic principles of



security measures in cloud computing privacy strategies in cloud environments were compared

• **Mohammed raziq Mohammed novik 2022** the researcher in this paper described how to overcome many security issues in cloud databases and discussed major security issues such as authentication confidentiality encryption key management multiple tenants and data partitioning it will conclude that it is necessary to reduce these issues and improve encryption the researcher also recommended the need to use appropriate key management techniques to distribute keys to authorized cloud users and to take into account the system security requirements while maintaining the speed of the system

• Sharma and Sharma(2015) in this paper some of the barriers and threats to the cloud database have been clearly analyzed and this paper addresses the privacy and security of cloud databases potential attacks and approaches to securing data on cloud databases the most likely attacks on the cloud database have also been described (SQL) injection cross site scripting (XSS) man in the middle attacks denial of service attacks and cookie poisoning are examples of such attacks the adversary can completely take over the database for your web application by entering a random SQL code into the database query the unauthorized person becomes able to gain unauthorized access to the database stored in the cloud

Cross site scripting is another malicious script inserted into the actual web context that help the enemy obtain the victim's confidential information the man in the middle the middle tries to Snoop between the client and the server to access the data

• Aurora and Gupta (2012) in this paper potential issues related to cloud database development are highlighted by highlighting database security and privacy the risks of storing data on untrusted hosting systems have been widely identified and sensitive data must be encrypted before being transferred to the cloud to avoid unwanted access

In reviewing research on cloud database security issues few research has been found related to cloud databases most of which face the problem of unauthorized access and modification of customer data solution technologies have also been found in their research many security issues have been identified in the cloud computing environment some important issues are listed below

- Data storage integrity
- theft of data by authorized users
- production data and backup data are stored at the same physical location
- DBAAS provider can access your data
- DDoS attacks and database performance
- non company users can access the database
- hidden sensitive data
- SQL injection attacks
- neighbouring tenants have access to data
- DBAAS regulatory compliance.

.ShCHERBININA et al, (2020) reported some other potential attacks against cloud databases including SQL injection weak authentication data breaches account takeovers cross site scripting (XSS) intermediary attacks denial of service attacks and cookie poisoning the term weak authentication refers to a very weak authentication method.

When there are data breaches hackers have easier access to private information such as credit card numbers and personal data that is held in cloud databases .

attackers can obtain date from the cloud database in an unauthorized manner through SQL injection in most cases therefore dangerous SQL code helps attackers bypass cloud protection

when cookies are poisoned it shows that hackers have changed them

attackers typically conduct denial of service(dos) attacks when they send wrong requests from outside the server to a noisy database server database failures occur as a result of the servers inability to meet actual needs

• Attacks that place an attacker in the middle of a client server connection in an attempt to steal data are known as "man in the middle" attacks

• Table 1: Literature review summary for database security in cloud

refrenses	Challenge	Methodology	Key Findings	Limitations	Future Work
[4]	Storing data on unreliable system	Literature review and case studies	Unauthorized access leads to significant data theft or loss; various strategies exist to mitigate these risks.	Focus on preventative measures may overlook detection and response strategies.	Develop more robust real-time monitoring systems.
[6]	Privacy and data security	Comprehensiv e review of the literature on database security	SQL injection via XSS sites can lead to unauthorized access to confidential data	User awareness is often insufficient to mitigate risks.	Develop user education programs alongside stronger security measures.
[10]	Encryption	A comprehensiv e review of the literature in cloud database security	Analyse and evaluate privacy strategies used in encryption	effective encryption provide significant data privacy protection	more about cloud data security more about managing encryption
[2]	Key management and distribution	Analyze key security challenge	The need for a careful balance between system security requirement and system speed	The study is mainly limited to key management and distribution	More investigation on how to integrate advanced encryption technologies.
[5]	Sql injection weak authentication	review of the literature on database security	Adversary can take over database and out malicious attacks	Not all proposed measures may be appropriate in all situations	More investigation into the impact of the attacks on end-users

Table 1: Literature review summary for database security in cloud

Solutions for security issues related to cloud databases [Huang,k,Tso,T (2012)], [Shetan and singh(2016)].

access to resources should be restricted by allowing only the lowest level of access while allowing the application to function normally in order to develop separate special privileges management must first examine this requirement grant each user application and process with access To the database absolute minimum privilege is no unintended changes in data or data leaks will occur as a result

• privilege segregation separates critical functions that can affect database security into parts that are implemented by different people or systems

• delegation and authentication the delegation process determines who has access to resources the identity of the entity requesting access to a resource is verified through authentication

• another critical security element is authorization as only authorized users will have access to protected information preventing data leakage

• defense in depth ensures that security controls are in place throughout the information architecture including the database network server and operating system cloud kits can be used to accomplish this policy the common pool of resources that many tenants can use is called a cloud pool

• recording and auditing tracks all activities by keeping a record of any work that may be related to security

• the most important element of security is data logging we can track issues and sometimes recover lost data these records can be used to implement special compliance certificates that require proof of actions that can be tracked and audited and that have been taken

• **data encryption to ensure privacy** encryption allows to protect data from unauthorized access and helps to stop data flows and breaches

• iteration reproducing important components in this system for the entire system with the aim of improving the reliability of the system in addition periodic DMBS backups are required in order to restore damaged or lost data if necessary

• continuous monitoring of the system status to ensure that the specifications are met this is a critical step because if a security breach is not observed it cannot be remedied most databases do not follow all of the above rules because it is impractical to do so as increased security may result in reduced productivity and durability cloud databases in particular need to respond to queries quickly in order to be effective to help developers implement security in cloud databases and settings more effectively many of these rules are presented in a style format

• various security methods and techniques have been proposed to secure databases located online or in the cloud however despite progress hackers continue to discover new ways to exploit vulnerabilities that go unnoticed during development testing and deployment for online databases access management is a fundamental and critical security challenge

METHODOLOGY

in this work we will use the inductive approach by relying on secondary sources which specialize in the current research topic database security issues and challenges in cloud computing review from an article available on the Internet and previous studies and works

. DISCUSSION

Migrating database to cloud should be an individual decision each time that depends on type of the data and the purpose of the solution. Decision makers should be aware of cloud



limitations and challenges; however, they should not forget about benefits that cloud database is bringing. This paper has 3 objectives.

CONCLUSION

this paper addressed security issues related to cloud databases it also discussed possible solutions I can conclude that in order to improve the service provided by cloud databases

1) security issues should be reduced and the encryption process improved

2) remote data storage and database management on 3^{rd} party infrastructure is one of the areas where cloud computing is an advanced and cutting edge technology

3) most organisations apply a cloud database to store their big data although cloud computing is a new emerging technology that offers a good number of benefits to users it faces a lot of security challenges there are ethical security and privacy issues that affect the use of cloud services but to overcome these issues data can be stored and retrieved from the cloud using new and advanced encryption technologies appropriate key management techniques can also be used to distribute the key to cloud users so that only authorized have access to the data

4) databases need effective access control security mechanisms to protect stored data in particular cloud databases or a difficult problem because they can be accessed from anywhere over the Internet and therefore effective security mechanisms are necessary to protect them without affecting normal business operations not only is it important that the database service security controls but in addition a wide range of security policies at different levels of the system architecture are needed to adequately protect it a new idea that provides users with a plethora of benefits is the cloud database cloud users may also be affected by some of the security issues you face and this article describes the issues related to databases and their solutions maintain system speed cloud database systems are not safe 100% however we can guarantee that they offer far more features than traditional databases.

Recommendations

• the need to implement strict access management and control policies for cloud data and resources

• the need to implement monitoring and analysis mechanisms to detect illegal or unusual activities techniques such as event logs analysis intrusion detection systems (S5S) and computer edge detection abuse can be used

• the need for security challenges related to cloud computing monitoring new security and technological developments and raising awareness of new threats and existing typical security practices to deal with them such as cyber threats unauthorized access and data loss

• databases need effective security mechanisms to control access and protect stored data cloud databases pose a challenge because they can be accessed from anywhere over the Internet

• The need for a wide range of security policies at different levels of the system architecture to adequately protect databases

• system designers must account security requirements while maintaining system speed cloud data Bay systems cannot be guaranteed to be 100% secure but they offer more features than traditional databases



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الصفحة	اسم الباحث	عنوان البحث	ر.ت
1-9	Hajer Mohammed farina Salem Husein Ali Almadhun Aimen M. Rmis Ramadan Faraj Swese	Database Security Issues and Challenges in Cloud Computing (Review)	
10-23	حسين ميلاد أبوشعالة	جماليات الاقنعة والرموز الافريقية	
24-35	رجعة سعيد محمد الجنقاوي عائشة مصطفى المقريف الهام محمد على أبوستالة	الإمكانيات المائية في منطقة مسلاته وأهم المشكلات التي تواجه قطاع المياه فيها	3
36-42	رضا الصادق الرميح عصام امحمد الرثيمي عبدالرحمن عبدالسلام المنفوخ	تأثير الذكاء الاصطناعي في تقليل تكلفة البناء الحديث	4
43-60	زهرة أحمد يحيى نورية عمران أبو ناجي	الخطاب الموجه إلى الرسول صلى الله عليه وسلم دراسة نحوية وصرفية وبلاغية لآيات مختارة من القرآن الكريم	5
61-70	سالم مفتاح إبراهيم بعوه إسماعيل عاشور عبدالله بن صليل	الأصول الدعوية للتصوف وأثرها في تقويم السلوك	6
71-82	محمد يوسف اقنيبر سعاد على محمد الشكيوي	دراسة السعة الحرارية لنظام فيريمغناطيسي مختلط من الرتبة(5/2 و 7/2) باستخدام نظرية المجال المتوسط	7
83-96	فتول سالم الله عبد سعيدة	بعض الأسباب الاجتماعية المؤدية للطلاق في المجتمع الليبي "دراسة ميدانية بمدينة الخمس"	8
97-104	عائشة حسن حويل	تنمية المهارات الحسابية باستخدام لعبة تعليمية إلكترونية للصف الأول الابتدائي (تطبيق فلاش للعمليات الحسابية أنموذجًا)	9
105-112	عبد الرحمن بشير الصابري إبراهيم عبد الله سويسي أبوبكر أحمد الصغير سالم على سالم شخطور	قوة النص في ارتباطه بالمعنى في قوله تعالى:﴿وخضتم كالذي خاضوا﴾ أنموذجًا دراسة تحليلية وصفيّة	10
113-121	عبد المنعم امحمد سالم	مفهوم الدولة عند هيجل	11
122-131	عبد المهيمن الحصان	Beyond the Screen: Challenges Faced by English as Second Language (ESL) Tutors in Teaching Online ESL to Koreans	12
132-154	عثمان علي أميمن	التنمر المدرسي وعلاقته ببعض المتغيرات لدى طلاب المرحلة الثانوية: دراسة إمبيريقية	13
155-163	عبد المولى محمد الدبار	اختلاف النحاة في إعراب بعض آيات من سورة البقرة وأثره على المعنى	14
164-168	على عبد الرحمن إبراهيم الفيتوري	تدبّر وبيان، في لفظة اقرأ في القرآن	15
169-172	Hind Mohammed Aboughuffah Fenny Roshayanti Siti Patonaha	Enhancing Critical Thinking and Learning Outcomes Through Flipped Classroom Strategy in Biology Education	16
173-179	علي سلامة العربي نوارة صالح موسى عمر حسين أبوغرارة	الرؤية السّردية في رواية نزيف الحجر لإبراهيم الكوني	17
180-187	فتحية على جعفر	مفهوم الذات وعلاقته بالتوافق النفسي لدى طلبة التعليم الثانوي	18
188-193	فرج الصديق علي إشميلة	الأسس الشرعية لدور الشباب في ترسيخ ثقافةً التسامح لتحقيق الأمن والسلم في المجتمعات	19
194-205	لطفية علي الكيب ربيعة المبروك سويسي	علاقة ممارسة النشاط البدني الرياضي باضطرابات الاكل لدى مريضات السكري ببعض مراكز المرأة بطرابلس	20
206-213	مروة الهادي أحمد الصاري هديل عبد الفتاح أبو بكر حمير أميرة صالح مفتاح التريكي	تحديد العوامل المؤثرة في نسبة الأكسجين لمصاب فيروس كورونا (كوفيد 19) باستخدام نموذج الانحدار الخطى المتعدد	21
214-221	ملاك حسن القاضي	البلاغة بين الأصالة والتأثر (الترجمة) وعلاقتها بتطور الفكر البلاغي	22
222-232	" میلاد سالم المختار مغراف	دور القيادة الالكترونية في تحسين أداء العاملين دراسة ميدانية علي العاملين بصندوق الضمان الاجتماعي فرع سوف الجين- بني وليد-ليبيا	23



233-243

244-250

251-260 261-275

276-283

284-300

301-312

313-318

319-333

334-339

340-350 351-358

مجلة التربوي

معامل التأثير العدد. 17 . 2 لسنة 2024

			of Educational N: 2011- 421X Arcif Q3	الثانير العربي 17 . 2 لسنة 2024 العدد 26 يناير 2025	معامل
	ہ عبد السلام عامر ہر مختار کصارۃ	ناص	استخدام الحوسبة السحابية لتطوير خدمات المعلومات في المكتبات الجامعية		24
	اة محمد المرابط جاة صالح يحي		الاختبارات التحصيلية وأهميتها في العملية التعليمية		25
	Najah Abduallah A Milad Ali Abdo			benefits of English Educational ne Nursery stage	26
	مضان محمد أبو ناجى	نعيمة ره	ات السياسية في المنطقة العربية	دور مواقع التواصل الاجتماعي في التغيير	27
	Zuhra Bashir Tra Nuri Salem Alr Mabruka Hadya A	naass	Detections of The Presence of Aflatoxin Secreted Fungi in Some Foods Traded in The Markets of The City of Al Khums, Libya		28
	حنان عيسّى الراشدي نادية عبدالله التواتي الحرابي وفاء عتيق عتيق		مستوى الوعي البيئي لدى أساتذة وطلاب كلية الآداب والعلوم قصر الأخيار بظاهرة الاحتباس الحراري		29
	، صالح على الربيقي	عطية	الغزل الأنثوي " عُلية العباسية أنموذجاً"		30
	Abdalkareem Abdalsalam Benmustafa Najah Abdalhamid Aljoroushi		Foreign Language Planning: A Case Study of Program Planning at the Faculty of Languages and Translation at Misrata University		31
	Abdussalam Ali Faraj Mousa Hamza Ali Zagloom		Approaches to Enhance EFL Case Study of Teachers at th	plementing Language-Based Students' Literary Competence: A le Faculty of Education, Elmergib rsity, Libya	32
	Ali Ali Milad Mohammed Abuojaylah Albarki Aimen Abdalsalam Kleeb			Management Information Security lties of Libyan Universities	33
	Ali S R Elfard		Dimension Functions On Topological Spaces		34
		perties for Gir Formation (Facha Field- NC74, Sirte Basin	35		
	Ebtisam. A. Eljamal Huda Ali Aldweby Entesar .J. Sabra			s of Analytic Functions New Integral Operator	36
Fathi Abuojaylah Abo-Aeshah		oo-Aeshah		nt materials (pomegranate and fig Zinc from aqueous solution	37

359-362	Huda Ali Aldweby Entesar .J. Sabra	Certain Subclasses of Analytic Functions Defined By Using New Integral Operator	36
363-367	Fathi Abuojaylah Abo-Aeshah	Study efficiency of biosorbent materials (pomegranate and fig leaves) in removing of Zinc from aqueous solution	37
368-378	Fatma A. Alusta Milad E. Drbuk	Inclusion Relations For K-Uniformly Starlike Functions Defined By Linear Operator	38
379-393	Ebtehal El-Ghezlani Fatma Kahel	Study of Pantoprazole and Omeprazole to Effect in the Treatment of Acute Gastric Ulcers and Reflux Esophagitis	39
394-400	ناجي سالم عبد السلام السفاقسي محمود محمد محمود زربيط	الألعاب الالكترونية وأثرها على ممارسة السلوك العدواني لدى تلاميذ المرحلة الابتدائية من وجه نظر الأمهات المعلمات. (دراسة ميدانية على بعض المدارس الابتدائية بالفرع الغربي بمدينة زليتن)	40
401-415	Ismail Elforjani Shushan Salah Eldin M. Elgarmadi Emad Eldin A. Dagdag	Mineral Precipitation Aspects within Sidi-Essaid Formation (Upper Cretaceous) Located at Sidi-Bujdaria Village, Wadi Gherim, Ghanema, NW Libya.(Part-1)	41
416-426	Khiri Saad Elkut	The Difficulties Facing Undergraduate Students in Writing Research Graduation Projects. Students' / Teachers' Perceptions and Attitudes	42
427-438	Moamer Mohamed Attallah	Proverbes français et leur traduction en arabe au niveau grammatical et sémantique.	43
439-451	Salaheddin Salem A.Elheshk Najla Mokhtar Elmusrati Abdalftah ali m. Abuaysha	استخدام نظام تنبيه وتسجيل المخاطر في المصرف الاسلامي الليبي (فرع الخمس)	44
452-458	محمد فتحي محمد قدقود	أثر اللون في الشعر العربي (بشار بن برد أنموذجا)	45
459-470	أسماء إشتيوي العيان فاطمة علي التير سميرة عمر الدوفاني	أثر المحددات المباشرة على الخصوبة في ليبيا للسنوات 2007،2014	46
471-481	الصادق سالم حسن عبد الله	أثر اللغة التركية في اللهجة الليبية	47

معامل التأثير العربي 17 . 2 لسنة 2024 العدد 26 يناير 2025

مجلة التربوي Journal of Educational ISSN: 2011- 421X Arcif Q3



الطاهر سالم العامري عائشة فرج القطاع 482-495 سهام عادل القطاع		بعض آراء الأخفش النحوية في باب المرفوعات	
	سهام فادن العلق	میں در ۲۰۰۰ میں بنداع میں _{اور م}	
الوليد سالم إبراهيم خالد 496-504		دقة المفردة القرآنية في الدلالة على الأحكام التشريعية (مفردات من آيات النكاح والحدود أنموذجاً) "دراسة فقهية مقاصدية"	
505-517	أمنة جبريل سليمان المسلاتي	القصة الشعرية في شعر المعتمد بن عباد	50
518-525	AMNA M. A. AHMED	On Some Types of Dense Sets in Topological Spaces	51
526-540	أميرة عبدالله الطوير	أثّر استراتيجيات إدارة الأزمات الحديثة على الأداء الوظيفي من وجهة نظر القيادات الإدارية لشركة الأهلية للإسمنت المساهمة	52
541-547	أميمة سعد اللافي فاطمة يوسف اخميرة	أساليب المعاملة الوالدية ودورها في إحداث المرونة النفسية لدى الابناء	53
548-561	إنتصار علي ارهيمة وفاء محمد محمد العبيد	أسلوب تحليل الانحدار الخطي لدراسة أثر الحكومة المؤسسية على الحد من الفساد الاداري	54
562-571	إيمان حسين عبد الله علي بشير معلول حنان إبراهيم البكوش	۔ دراسة إحصائية لتنبؤ بأعداد مرضى السكر باستخدام منهجية بوكس وجنكيز (دراسة تطبيقية)	55
572-580	تهاني محمود عمر خرارزة	تحليل معدلات ظاهرة البطالة في منطقة المرقب عن العامين (2013 – 2022م)	56
581-590	جمال محمد الفطيسي	منهج الشيخ عبدالسلام أبو ناجي في بيان أدلة الأحكام من خلال كتابه أصول الفقه	57
591-593	حميدة على عمر ابوراس	تحليل مطيافية التشتت الخلفي لراذرفورد لزراعة الفضة على كربيد السيليكون متعدد البلورات	58
594-606	حنان سعيد علي سعيد عائشة سالم اطبيرجة عفاف محمد بالحاج	أسباب ظاهرة التنمر المدرسي من وجهة نظر الأخصائي الاجتماعي، والمرشد النفسي في بعض مدارس التعليم الأساسي	59
607-611	حواء بشير عمر بالنور	"إذَنْ" في اللغة العربية	60
612-622	خيرية عمران كشيب	العنف ضد المرأة من منظور نفسي	61
623-630	عبدالحميد مفتاح ابو النور حنان فرج ابو على	واقع التعليم الالكتروني في مؤسسات التعليم العالي بين (طموحات التفعيل - التحديات)	62
631-638	نور الدين سالم رحومه قريبع	مفهوم السلطة السياسية عند ميكافيللي(دراسة تحليلية نقدية)	63
639-650	يونس مفتاح الزايدي وليد فرج نعيمات محمد اسماعيل ابوصلاح أحمد علي إبراهيم البكوش ابوبكر الشريف الشبيلي	دراسة التغيرات الوظيفية في كبد وكلى ذكور الارانب المعاملة بعقار الأيبوبروفين Olive Oil ومدى التأثير الوقائي المحتمل لزيت الزيتونIbuprofen	64
651-659	بنور ميلاد عمر العماري	ظاهرة البطالة في المجتمع الليبي ودور الخدمة الاجتماعية في التعامل معها	65
660-669	خالد محمد الشريف	أثر رأس المال البشري على ربحية المصارف التجارية دليل تجريبي من المصارف التجارية العاملة في الأردن	66
670-680	عبدالحميد إبراهيم سلطان	في ترشيد الفكر ومحارية التطرف الفكري دور الوسطية	67
681-693	مها المصري محمد أبورقيقة	المرونة المعرفية للمرشد التربوي ودورها في نجاح العملية التعليمية	68
694-706	عبدالخالق محمد الربيعي	Case Study: Investigating The Effect of Teaching Prewriting stage on Students' Writing Quality	69
708-714	زينب محمد العجيل أبوراس	الظروف التي تضاف إلى الجمل وجوباً "بناؤها واستعمالاتها"	70
715-722	سناء امحمد السائح معتوق	Considering the impact of peer observation on teacher's development	71
723-729	عطية رمضان الكيلاني عبدالسلام صالح أبوسديل ميلود الصيد الشافعي	التعريف بالطفيليات التي تصيب أسماك الهامور الداكنة (Epinephelus marginatus) المصطادة من شواطئ مدينة الخمس - ليبيا	72
	مختار حسين	"التوافق بين شيخ الإسلام ابن تيمية ومحققي الأحناف في المسائل المتعلقة	73
730-742	حسن محمد حسن ماخذي	بالإيمان بالله وتوحيد الألوهية: جمعا ودراسة''	

		مجلة التربوي l of Educational N: 2011- 421X Arcif Q3	التأثير العربي 17 . 2 لسنة 2024 العدد 26 يناير 2025	معامل
759-771	Ragb O. M. Saleh	Simulation and Comparison of Control Messages Effect on AODV and DSR Protocols in Mobile Ad-hoc Networks		75
772-777	Ghayth M. Ali Ilyas A. Salem Fathalla S. Othman Abdulati Othman Aboukirra Ayiman H. Abusaediyah Ashraf Amoura	INVESTIGATING THE EFFECT OF ALKALINE TREATMENT ON THE PHYSICAL CHARACTERISTICS OF HAY-EPOXY COMPOSITES		76
778-785	نهلة أحمد فرج محمود أحمد أدم عبد الكريم عيسى	(VLAN)	تحسين أداء الشبكة المحلية (LAN) بكليا المحلية الظاهرية	77
786-791	Reem Amhemmed Masoud		f leave Extract of Ziziphus spina- hree Bacterial species	78
792-799	Ruwida M. Kamour Zaema A. El Baroudi Taha H.Elsheredi	-	Methods for Identification of Fake	79
800-813	فريال فتحي محمد الصياح		مدى ممارسة معلمي القسم الادبي للكفايات النفس العام في المرحلة الثانوية لبعض	80
814-824	سعاد صالح بلقاسم ایناس محمد میلاد	المعلومات الخُمس /بلدية الخُمس)	استخدام مواقع التواصل الاجتماعي في الع الطلبة (دراسة ميدانية على طلبة كلية تقنية (الواتساب نم	81
825-832	ذكريات عبد المولى سالم العيساوي	حل مشكلة التخصيص الضبابي بطريقة التصنيف للأعداد الضبابية الرباعية		82
833-851	عباس رجب عبدالرحيم	النظام البازيليكي للكنائس البيزنطية دراسة أثرية تطبيقية للكنيسة الشرقية بقورينا "شحات"		83
852-860	محمد نجم الهدى	المكتبات الرقمية ودورها في نشر علوم السنة النبوية: دراسة تحليلية		84
861-875	Munera Shaili Asaki	Using electronic resource mobilization to develop mathematical thinking skills among higher institute students.		85
876-881	Hend ALkhamaesi ALmabrouk ALhireereeq	Evaluation of some Chemical components of the ground water in four regions of Tourist area		86
882-905	مبروكة سعد أحمد علي	المخاطر العقدية في الإعلام الغربي وإهانته للمقدسات الإسلامية وموقف الإسلام من ذلك		87
906-924	صالح رجب أبوغفة	دراسة اضطرابات النطق وعلاقتها بالخجل الاجتماعي لدى الأطفال ودور الاختصاصي الاجتماعي في الحد منها (دراسة ميدانية بمدرسة الصم والبكم وضعاف السمع بمدينة زليتن)		88
925-935	نور الهدى نوري مجير	عناية أهل الأَنْدَلُس بالنظافة وصحة البيئة		89
936-950	عبد الرؤوف محمد عبد الساتر الذرعاني	كان وأخواتها في الشعر العربي (ديوان المعتمد بن عباد أنموذجا)		90
952-957	حنان عبد السلام علي سليم سعاد إبراهيم الهرم	ميدليات مدينة زليتن)	توظيف الأنظمة الالكترونيا (إنشاء نظام الكتروني لأحد م	91
958-977	محمد زكريا	ه)، تحقّيقا ودراسة" 💆	" نماذج من أحاديث كتاب الفِرْدَوْسِ بِمَأْثُورِ شَهْرَدَار الدَّيْلَبِي (445-509	92
978-989	نورية محمد الشريف		ظاهرة تراكم وتكدس اا (القمامة) في منطقة سوق	93
990-1004	Ahmid Emhemed Daw Altomi Zahia Kalifa Daw Musdeq	of	effect on human health in the city Al-Jamil	94
1005-1014	محمود محمد رحومة الهوش		حصة التربية البدنية وعلاقت لدى تلاميذ المرحلة النهائية للتعلي	95
1015-1031	عبد المنعم منصور الحر	الأمن القومي السعودي	التهديدات الإيرانية وتأثيرها على "دراسة تحليلية للنزاع في اليمن خلال	96
1032-1040	Fuzi Elkut Sabri M. Shalbi		zation Strategies in CT Imaging: Ainimizing Dose simultaneously	97
1041-1049	Mostafa Omar Sharif Adel Omar Aboudabous	An overview of fish muscle and nutritional strategi	physiology, omics, environmental, es for enhanced aquaculture	98
1050-1058	أنيس محمد عبد الهادي الصل		دلالات صدق وثبات مقياس الطفل التوحدي ليبيا للأعمار من (3 _	99

			مجلة التربوي l of Educational N: 2011- 421X Arcif Q3	التأثير العربي 17 . 2 لسنة 2024 العدد 26 يناير 2025	معامل
1059-1067	Abdaladeem Mohammad Hdidan		The Role and Effect of AI in Translation		100
1068-1077	علي معتوق علي صالح		التعزير في الشريعة الإسلامية وتطبيقاته في القانون الجنائي المعاصر: دراسة تطبيقية على القانون الليبي		101
1078-1083	Hana Wanis Elfallah Hnady Hisham Alsiywi		Antagonistic Activity of Rhizobium sp Against some Human Pathogenic Microorganisms		102
1084-1089	Fuzi Mohamed Fartas Ramdan Ali Aldomani Ahmed Mohammed Mawloud Alqeeb Galal M. Zaiad			and Cadmium in the Seawater c Absorption Spectrometry	103
1090-1096	عبد السلام صالح علي انبيص مصعب مفتاح محمد الشريف		ينة الخمس في تشكيل فرق كرة اليد"	" التحديات التي تواجه الأندية الرياضية بمد	104
1097	الفهرس				