



عمادة البحث العلمي

الانتحال الأدبي Turnitin



الانتحال الأدبي Turnitin

مقدمة عن نظام Turnitin

يعتبر النظام الأكثر مبيعا في العالم لكشف الاقتباس في الأبحاث ورسائل الماجستير والدكتوراه

بعض الحقائق عن النظام :

- مايزيد عن 275 مليون بحث مدخلة إلى النظام
 - 300000-250000 بحث مدخل يوميا إلى النظام
 - ما يزيد عن 40 مليون مستخدم مختلف من أنحاء العالم
 - يحتوي على 120 مليون بحث من 110 ألف مجلة وكتاب
 - 126 دولة تستخدم النظام
 - 10 آلاف جامعة تستخدم النظام
 - 70% من أفضل 100 جامعة أمريكية تستخدم النظام
 - يتعامل مع أكثر من 14 لغة بما فيها اللغة العربية
 - يتصفح ما يزيد عن 24 مليار صفحة الكترونية
- عندما يبحث الـ Turnitin عن التشابه والاقتباس فإنه يبحث خلال الآتي :

- الانترنت
- الانترنت المؤرشف
- ما يزيد عن 200 مليون بحث وواجب لطلاب سابقين
- قاعدة بيانات ebSCO
- GALE ONE FILE
- محتويات من اكبر ناشرين العالم
- كل محتويات ياهو ومحتويات الاخبار المحلية



- محتويات من أكثر من 31 لغة
- المحتويات المترجمة

- JISC Collections and e_book project
- British library Ethos project
- Pearson
- MCGraw Hill
- Pubmed Central
- Open Archive
- Arxiv . org
- Ministry of science and technology _ china

يشارك الـ Turnitin مع مايزيد عن +32 مليون مجلة حالية مثل

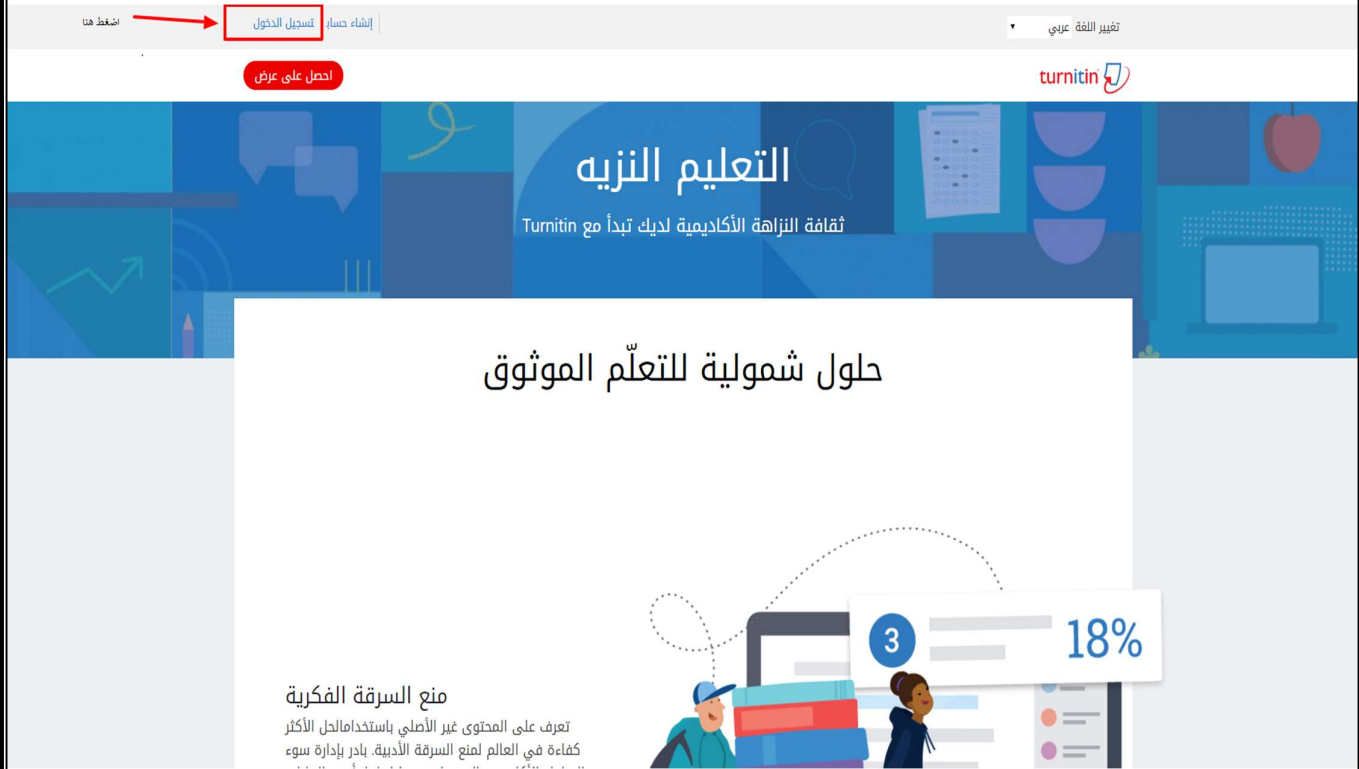
(ACM, BMJ Publishing Group , Elsevier, IEEE, Nature Publishing Group , Oxford University Press , Sage, Informa UK(Taylor & Francis) , Wiley Black well , Springer , AM , Insitiute of Physics . Physical Society , psychological Society, AAAS) .

لتجربة نظام الـ Turnitin :

- ادخل إلى الموقع <https://www.turnitin.com/>
واتبع الخطوات التالية (دخول للنظام - انشاء مادة أو صف تدريسي - انشاء مهمة - تحميل بحث أو رسالة ماجستير - فحص نسبة التشابه - تحميل تقرير نسب التشابه).

الخطوة الأولى:

الدخول إلى النظام من خلال إدخال البريد الإلكتروني الخاص بجامعة عمان الاهلية وكلمة السر الخاصة بالمستخدم .



اضغط هنا

إنشاء حساب | تسجيل الدخول

تغيير اللغة عربي

احصل على عرض

turnitin

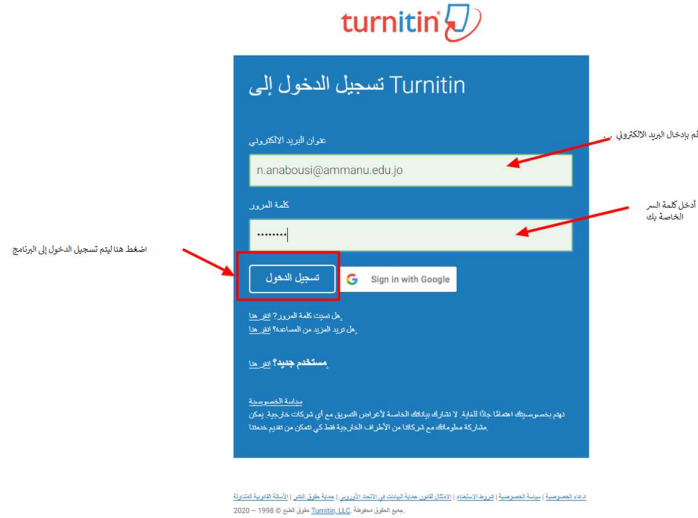
التعليم النزيه

ثقافة النزاهة الأكاديمية لديك تبدأ مع Turnitin

حلول شمولية للتعلّم الموثوق

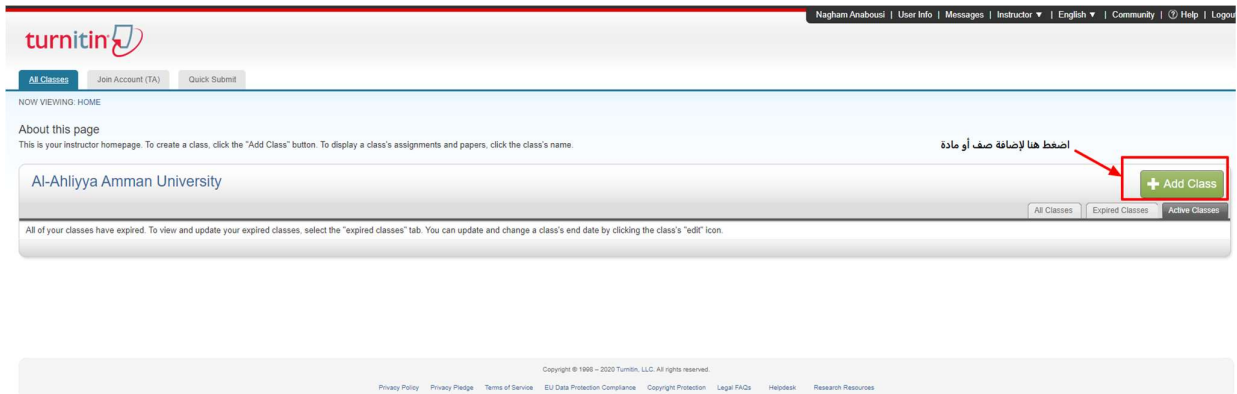
3 18%

منع السرقة الفكرية
تعرف على المحتوى غير الأصلي باستخدام الحل الأكثر
كفاءة في العالم لمنع السرقة الأدبية. بادر بإدارة سوء



الخطوة الثانية :

انشاء (مادة /صف) تدريسي واختيار اسم للمادة وكلمة سر وتحديد تاريخ بداية ونهاية المادة ثم الضغط على continue للاستمرار :





turnitin

Nagham Anaboush | Messages | Instructor | English | Community | Help | Logout

All Classes | Join Account (TA) | Quick Submit

NOW VIEWING: HOME > CREATE CLASS

Create a new class

To create a class, enter a class name and a class enrollment key. Click "Submit" to add the class to your homepage.

Class settings

- Class type: Standard
- Class name: science → يرجى إدخال اسم المادة أو الصف كما هو موضح
- Enrollment key: 123 → يرجى إدخال كلمة سر للمادة عبارة عن خمسة أو ستة أرقام
- Subject area(s): Other x → يرجى اختيار التخصص other دائما لتمام التعلق بشغل موضح أكثر
- Student level(s): Postgraduate x → يرجى اختيار المستوى الدراسي العليا كما هو موضح
- Class start date: 16-Feb-2020 → تحديد تاريخ بداية المادة
- Class end date: 19-Aug-2020 → تحديد تاريخ نهاية المادة

Cancel Submit اضغط هنا

Class created

Congratulations! You have just created the new class: science
If you would like students to enroll themselves in this class, they will need both the enrollment key you have chosen and the unique class ID generated by Turnitin:

Class ID **23944852**
Enrollment key **123456**

Note: Should you ever forget the class ID, it is the number to the left of the class name on your class list. You can view or change your enrollment key by editing the class.

Click the class name to enter the class and get started creating assignments.

Continue اضغط على استمر لتفعيل الصف أو المادة

End Date
19-Aug-2020

Privacy Pledge | Terms of Service | EU Data Protection Compliance | Copyright Protection | Legal FAQs | Helpdesk | Research Resources



الخطوة الثالثة:

○ إنشاء (مهمة/واجب) لتحميل الأبحاث أو رسائل الماجستير.

The screenshot shows the Turnitin instructor dashboard. At the top, there's a navigation bar with links like 'Nagham Anabousi', 'User Info', 'Messages', 'Instructor', 'English', 'Community', 'Help', and 'Logout'. Below the navigation bar, there are tabs for 'All Classes', 'Join Account (TA)', and 'Quick Submit'. A message box says 'Congratulations! You have created the new class. science. Your class ID is 23944852 and enrollment key is 123456.' Below this, there's a section 'About this page' with instructions. A table lists the class details:

Class ID	Class name	Status	Start Date	End Date	Statistics	Edit	Copy	Delete
23944852	science	Active	18-Feb-2020	19-Aug-2020				

The screenshot shows the Turnitin instructor dashboard for the 'science' class. At the top, there's a navigation bar with links like 'Nagham Anabousi', 'User Info', 'Messages', 'Instructor', 'English', 'Community', 'Help', and 'Logout'. Below the navigation bar, there are tabs for 'Assignments', 'Students', 'Libraries', 'Calendar', 'Discussion', and 'Preferences'. A message box says 'This is your class homepage. Click the "Add assignment" button to add an assignment to your class homepage. Click an assignment's "View" button to view the assignment inbox and any submissions that have been made to the assignment. You can make submissions by clicking on the "Submit" option in the assignment's "More actions" menu.' Below this, there's a section 'science' with a table of assignments:

START	DUE	POST	STATUS	ACTIONS

○ ضبط الاعدادات كما هو موضح مع مراعاة اختيار:

○ (No repository) لكي لا يتم تخزين البحث في قاعدة بيانات Turnitin

○ عدم استثناء أي مصادر صغيرة أو مراجع لكي يتم اكتشاف كل جزئية من جزئيات البحث ومعرفة

أدق التفاصيل في الفحص الأول



turnitin | Naghm Anabousi | User Info | Messages | Instructor | English | Community | Help | Logout

Assignments | Students | Grade Book | Libraries | Calendar | Discussion | Preferences

NOW VIEWING: HOME > SCIENCE

About this page
To create an assignment, enter an assignment title and choose the start and due dates for the assignment. If you like, you can enter an additional assignment description. By default, papers submitted to this assignment will be checked against all of our databases. If you would like to create a custom search or view other advanced assignment options, click the "Optional settings" link.

New Assignment

Assignment title: research

Start date: 16-Feb-2020 at 12:00

Due date: 11-Aug-2020 at 12:00

Close options

Enter special instructions

Allow submissions after the due date? Yes

Similarity Report

Generate Similarity Reports for submissions? Yes

Generate Similarity Reports for student submission? Immediately (can overwrite reports until due date)

Exclude bibliographic materials from Similarity Index for all papers in this assignment? No

Exclude quoted materials from Similarity Index for all papers in this assignment? No

Exclude small sources? No

Allow students to see Similarity Reports? No

Enable Translated Matching? (Beta) No

Submit papers to: no repository

Search options: Student paper repository, Current and archived internet, Periodicals, journals, & publications

Submit

الصفحة هنا لإرسال العبارات

إعطاء المهمة أو الواجب عنوان

تحديد تاريخ بداية المهمة

تحديد تاريخ نهاية المهمة

الخيار أنواع الملفات التي يمكن للبرنامج التعرف عليها

يرجى إدخال العبارات التالية بالطريقة الموضحة

يطلب فرغ لأن البرنامج غير مربوط بالطلاب

الخيار السماح بإغلاق الملفات بعد تاريخ انتهاء المهمة

الخيار إنشاء تقارير التشابه للملفات المدخلة على البرنامج

الخيار إنشاء تقارير التشابه للملفات المدخلة على البرنامج بعد كل تحديث حتى تاريخ انتهاء المهمة

الخيار استثناء أي مراجع من تقرير التشابه لجميع الملفات المدخلة على البرنامج

الخيار استثناء أي مواد مقبسة من تقرير التشابه لجميع الملفات المدخلة على البرنامج

الخيار استثناء أي مصادر صغيرة من تقرير التشابه لجميع الملفات المدخلة على البرنامج

الخيار السماح للطلاب برؤية تقرير التشابه

إمكانية التعرف على الاقتباسات التي تمت ترجمتها

الخيار عدم تعيين الملفات المدخلة على البرنامج في قاعدة بيانات turnitin

عبارات البحث



الخطوة الرابعة:

تحميل الورقة البحثية أو رسالة الماجستير المراد فحص نسبة التشابه لها

turnitin

Assignments Students Libraries Calendar Discussion Preferences

NOW VIEWING: HOME > SCIENCE

🟢 Congratulations! You have created your first assignment. To add students or view your student list click the "students" tab above.

About this page
This is your class homepage. Click the "Add assignment" button to add an assignment to your class homepage. Click an assignment's "View" button to view the assignment inbox and any submissions that have been made to the assignment. You can make submissions by clicking on the "Submit" option in the assignment's "More actions" menu.

science + Add Assignment

CLASS HOMEPAGE | QUICKMARK BREAKDOWN

	START	DUE	POST	STATUS	ACTIONS
research					
PAPER	15 Feb 2020 (Closed)	11 Aug 2020 21:00:00	N/A N/A	0 / 0 Submissions	View More actions

More actions
Edit settings
Submit
Delete assignment

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Privacy Policy Privacy Pledge Terms of Service EU Data Protection Compliance Copyright Protection Legal FAQs Helpdesk Research Resources

Submit: Single File Upload - STEP 1/3

Author
Non-enrolled student

First name
Ahmad يرجى إدخال الاسم الأول لتباين

Last name
Al-ahmad يرجى إدخال الاسم الأخير لتباين

Submission title
Secure Indexing Using Unique Hash Values for Each MAC يرجى إدخال عنوان البحث

The file you are submitting will not be added to any repository.

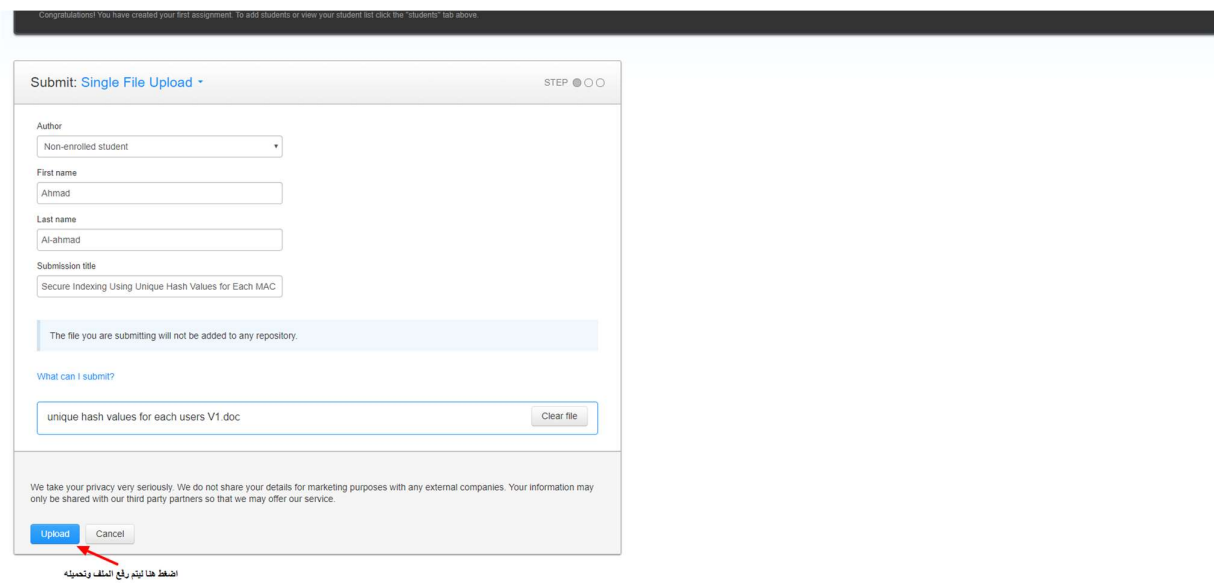
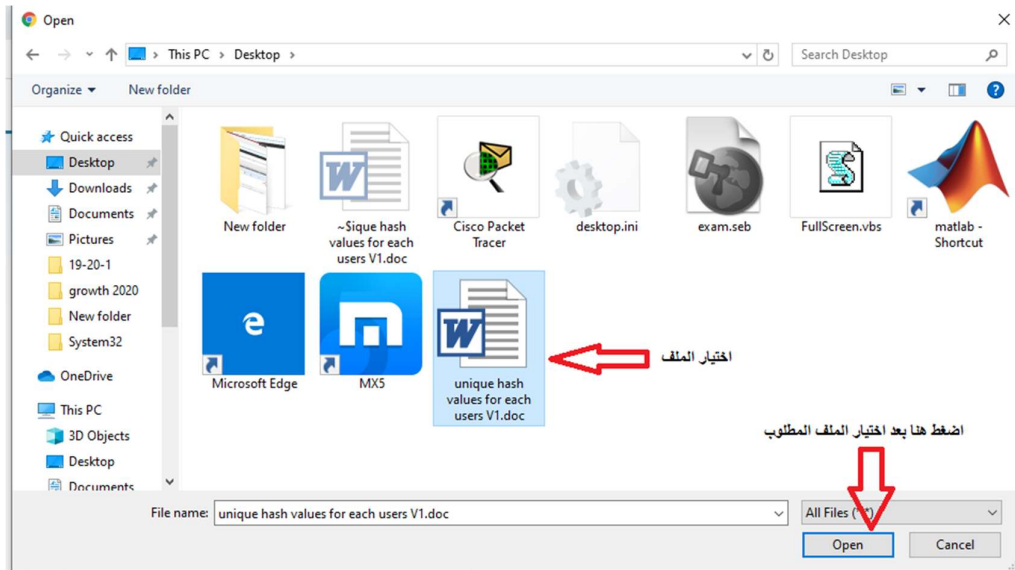
What can I submit?

Choose the file you want to upload to Turnitin: يرجى اختيار الملف المراد تحميله من جهاز الحاسوب

Choose from this computer ←

Choose from Dropbox

Choose from Google Drive





Congratulations! You have created your first assignment. To add students or view your student list click the "students" tab above.

Submit: Single File Upload STEP ●●○

Please confirm that this is the file you would like to submit...

Author:
Ahmad Al-ahmad

Assignment title:
research

Submission title:
Secure Indexing Using Unique Hash Values for Each
MAC Address in Data Storage in Cloud Computing

File name:
unique hash values for each users V1.doc

File size:
427.5K

Page count:
5

Word count:
3563

Character count:
18296

We take your privacy very seriously. We do not share your details for marketing purposes with any external companies. Your information may only be shared with our third party partners so that we may offer our service.

[Confirm](#) [Cancel](#)

اضغط هنا على تأكيد

Congratulations - your submission is complete! This is your digital receipt. You can print a copy of this receipt from within the Document Viewer.

Author:
Ahmad Al-ahmad

Assignment title:
research

Submission title:
Secure Indexing Using Unique Hash Values for Each
MAC Address in Data Storage in Cloud Computing

File name:
unique hash values for each users V1.doc

File size:
427.5K

Page count:
5

Word count:
3563

Character count:
18296

Submission date:
16-Feb-2020 12:56PM (UTC+0400)

Submission ID:
1258156421

We take your privacy very seriously. We do not share your details for marketing purposes with any external companies. Your information may only be shared with our third party partners so that we may offer our service.

[Go to assignment inbox](#) [Submit another file](#)

اضغط على الأذهب لتستدعي المهام



الخطوة الخامسة:

تعديل الاعدادات بعد ظهور نسبة التشابه وتحميل تقرير نسب التشابه

The screenshot shows the Turnitin interface. At the top, there are navigation links: Naghm Anabousi | User Info | Messages | Instructor | English | Community | Help | Logout. Below this, there are tabs for Assignments, Students, Grade Book, Libraries, Calendar, Discussion, and Preferences. The main content area shows "NOW VIEWING: HOME > SCIENCE > RESEARCH". Under "About this page", it says "This is your assignment inbox. To view a paper, select the paper's title. To view a Similarity Report, select the paper's Similarity Report icon in the similarity column. A ghosted icon indicates that the Similarity Report has not yet been generated." Below this, there is a "research" section with an "INBOX | NOW VIEWING: NEW PAPERS" dropdown. A "Submit File" button is visible. The main table has columns: AUTHOR, TITLE, SIMILARITY, GRADE, RESPONSE, FILE, PAPER ID, and DATE. The first row shows "Ahmad Al-ahmad" with the title "Secure Indexing Using Unique Hash Values..." and a similarity score of 41%. A red box highlights the 41% similarity score, and a red arrow points to it with the text "استظهر النتيجة تحت كلمة التشابه برجي الضغط على النسبة التي ظهرت". Below the table, there are links for Privacy Policy, Privacy Pledge, Terms of Service, EU Data Protection Compliance, Copyright Protection, Legal FAQs, Helpdesk, and Research Resources. At the bottom, there is a copyright notice: "Copyright © 1998 - 2020 Turnitin, LLC. All rights reserved."

How likely are you to recommend Turnitin Feedback Studio to a co-worker?

Not at all likely 0 1 2 3 4 5 6 7 8 9 10 Extremely likely

Powered by Wootlic

The screenshot shows a Turnitin similarity report. The document title is "Secure Indexing Using Unique Hash Values for Each MAC Address in Data Storage in Cloud Computing". The similarity score is 41%. The report is divided into sections: 1. INTRODUCTION, 2. BACKGROUND, and 3. MAC Address. The text in the report is highlighted in red to show similarities. The "Active Layers" panel on the right shows "Similarity" selected. The bottom of the screenshot shows the Windows taskbar with the time 12:18 PM on 2/16/2020.



○ اضغط هنا لتظهر لك جميع المصادر التي تم الاقتباس منها

The screenshot shows the Turnitin interface with a document titled "Secure Indexing Using Unique Hash Values for Each MAC Address in Data Storage in Cloud Computing". The document content is partially visible, showing sections for "1. INTRODUCTION" and "2. BACKGROUND". On the right side, there is a panel titled "All Sources" which lists various sources cited in the document. A red arrow points to the "All Sources" button at the top of this panel. The list of sources includes:

Source	Percentage
Mazhar Ali, Revathi Dh...	23%
sameelhan.org	23%
www.cs.newpaltz.edu	23%
Ali, Mazhar, Revathi Dh...	23%
Mazhar Ali, Revathi Dh...	23%
innocivatum.com	22%
www.irjet.net	20%
Submitted to Texas A&...	17%
www.ijrce.com	14%
Aarthi, D. and N. Indira...	11%
D. Aarthi, N. Indira, 'En...	11%
A. Anjali Angel Paritha...	10%
Submitted to Victorian ...	10%

○ اضغط هنا لتعديل الاعدادات والقيام ببعض الاستثناءات من نسب التشابه وهو أمر (اختياري)

The screenshot shows the Turnitin interface with the same document as above. On the right side, there is a panel titled "Filters and Settings". A red arrow points to the "Filters and Settings" button at the top of this panel. The panel contains various options for filtering and setting the similarity score, including:

- Exclude Quotes
- Exclude Bibliography
- Exclude sources that are less than:
 - words
 - 1 %
 - Don't exclude by size
- Optional Settings: Multi-Color Highlighting



○ ستغير نسبة التشابه بعد القيام ببعض الاستثناءات كما هو موضح

32

التبعية المحللة بعد تعديل بعض عوامل التشابه في الاستثناءات

1. INTRODUCTION

Cloud computing got its ingenuity and has a fundamental job in the development of data innovation as it gives a basic infrastructure, platform, and software as services (Mosa, El-Bakry, Abd El-Razek, & Hasan, 2016). Cloud storage deals with an extensive volume of information, which is significant for business and people as a solution for storing huge amount of data. The fundamental highlights of the cloud incorporate adaptability, unwavering quality, and accessibility yet same time data security, protection, and consistency are real concerns or issues which repress the development and relocation to the cloud by associations particularly the individuals who manage delicate information. Security is dependably a noteworthy worry in Open Framework Models and thinking about the dangers and vulnerabilities in the cloud, different countermeasures have been proposed as of not long ago including cryptographic procedures yet at the same time (Sukumaran & Mohammed, 2018). Cloud computing is quickly rising because of the provisioning of versatile, adaptable, and on-request stockpiling and processing administrations for clients (Abbas & Khan, 2014). Associations with a low spending plan would now be able to use high figuring and capacity administrations without intensely putting resources into foundation and support (Alhamazani & et, 2014). However, the loss of control over data and computation raises many security concerns for organizations, thwarting the wide adaptability of the public cloud. The loss of control over data and the storage platform also motivates cloud customers to maintain the access control over data (individual data and the data shared

2. BACKGROUND

MAC Address

Each Network interface on an 802.11 able gadget has a 48-bit MAC address layer-2 equipment identifier. MAC delivers are intended to be tenacious and comprehensively remarkable. To ensure the uniqueness of MAC addresses crosswise over gadgets, the Institute of Electrical and Electronics Engineers (IEEE) allocates squares of addresses to associations in return for a charge. A MAC Address Square Extensive (MA-L), regularly known as an Organizationally Unique Identifier (OUI), might be obtained and enlisted with the IEEE, which gives the association control of and duty regarding all locations with a specific three-byte prefix. The maker is without then to allocate the staying low-request three bytes (2^{24} particular locations) any esteem they wish while instating gadgets, subject to the condition that they do not utilize a similar MAC address twice. A ramification of the IEEE enrollment framework is that it is minor to look into the producer of a gadget given its MAC address. Utilizing, once more, the case of a remote busbody, this implies anybody tuning in to 802.11 traffic can decide the producer of adjacent

Page: 1 of 5 Word Count: 3563

○ لتحميل تقرير نسب التشابه والاقتراس اتبع الخطوات التالية

32

النظر على التسمية تحميل تقرير التشابه

1. INTRODUCTION

Cloud computing got its ingenuity and has a fundamental job in the development of data innovation as it gives a basic infrastructure, platform, and software as services (Mosa, El-Bakry, Abd El-Razek, & Hasan, 2016). Cloud storage deals with an extensive volume of information, which is significant for business and people as a solution for storing huge amount of data. The fundamental highlights of the cloud incorporate adaptability, unwavering quality, and accessibility yet same time data security, protection, and consistency are real concerns or issues which repress the development and relocation to the cloud by associations particularly the individuals who manage delicate information. Security is dependably a noteworthy worry in Open Framework Models and thinking about the dangers and vulnerabilities in the cloud, different countermeasures have been proposed as of not long ago including cryptographic procedures yet at the same time (Sukumaran & Mohammed, 2018). Cloud computing is quickly rising because of the provisioning of versatile, adaptable, and on-request stockpiling and processing administrations for clients (Abbas & Khan, 2014). Associations with a low spending plan would now be able to use high figuring and capacity administrations without intensely putting resources into foundation and support (Alhamazani & et, 2014). However, the loss of control over data and computation raises many security concerns for organizations, thwarting the wide adaptability of the public cloud. The loss of control over data and the storage platform also motivates cloud customers to maintain the access control over data (individual data and the data shared

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Page: 1 of 5 Word Count: 3563



The screenshot shows a Turnitin submission page for a document titled "Secure Indexing Using Unique Hash Values for Each MAC Address in Data Storage in Cloud Computing". The document is displayed in a preview window, and a download menu is open over it. The menu options are: "Current View", "Digital Receipt", and "Originally Submitted File". A red arrow points to the "Current View" option. The document content is partially visible, showing the "1. INTRODUCTION" section. The Turnitin interface includes a "Filters and Settings" panel on the right and a "Download" button at the top of the document preview.

سيتم تحميل تقرير التشابه لديك في جهاز الحاسوب موضح فيه المصادر التي تم الاقتباس منها وكل اقتباس بلون يشابه لون المصدر المقتبس منه.

The screenshot shows a PDF document titled "Secure Indexing Using Unique Hash Values for Each MAC Address in Data Storage in Cloud Computing" by Ahmad Al-ahmad. The document is displayed in a preview window, and the title and author information are clearly visible. The document is a single page, and the Turnitin interface is visible in the background.



AAU University | Turnitin | Secure Indexing Using Unique Hash Values for Each MAC Address in Data Storage in Cloud Computing.pdf

Secure Indexing Using Unique Hash Values for Each MAC Address in Data Storage in Cloud Computing

ABSTRACT: Data privacy and protection is the hottest topic in cloud computing-based systems. Cloud-based systems must have an ability to ensure the security of information and maintaining privacy using remote-access search to eliminate the need to retrieve data from the cloud. In this paper, we propose a novel model to provide a unique index using SHA-256 algorithm and to utilize the uniqueness of MAC address to produce a unique MAC-HASH with an addition with minimal processing time. The results has been proven to be irreversible and give a unique value for each user and file in allowing affiliates of data and the hacker would have no access to the original data. Therefore, the files will be blind searched and the cloud administrator and the hacker would have no knowledge of user search.

Key words: MAC, SHA-256, secure data storage, secure hash values.

1. INTRODUCTION

Cloud computing as an emerging field has a fundamental job in the development of data innovation as it gives a basic infrastructure, platform, and software as services (Mousa, El-Hakry, Abd El-Razek, Hassan, 2016). Cloud storage deals with an extensive storage of information which is significant for business and people as a solution for saving huge amount of data. The fundamental highlights of the cloud incorporate availability, scalability, swiftness, quality, and security. In cloud data security, protection, and consistency are the real concerns or issues which express the developer and reduction in the cloud file associations particularly the individuals who manage delicate information. Security is dependably a noteworthy worry in Open Framework Models and thinking about the dangers and vulnerabilities in the cloud different countermeasures have been proposed as of not long ago including cryptographic procedures systems (the same time Oudomrath, & Mekhamez, 2014). Cloud computing is quickly rising because of the rising of "remote, adaptable, and on-request stacking and processing administrations for clients" (Abbas & Khan, 2011). Adoption with a low spending plan would now be able to use high figuring and capacity administrations without necessarily purchasing hardware, foundation, and support (Al-Hussaini, et al., 2014). However, the loss of control over data and computing from many security concerns for organizations, showing the wide adaptability of the public cloud. The loss of control over data and the storage platform also motivates cloud consumers to maintain the access control over data through the public clouds (Wei, Zhu, Cao, Cheng, & Vasilakos, 2014). In addition, the security and privacy of the information are likewise protected to be thought about by the clients. The secrecy the bound by a client guarantees that the cloud does not gain proficiency with any data about the client information. Cryptography is utilized as a normal apparatus to give secrecy and security of information to the information (Gowder, et al., 2012). The data are usually encrypted before storing to the cloud. The access control, key management, encryption, and decryption processes are handled for the consumers to ensure data security (Joshi, et al., 2014). However, when the data are to be shared among a group, the cryptographic services need to be flexible enough to handle different users, enhance the access control, and manage the keys in an efficient manner to safeguard data confidentiality. The data handling among a group has certain additional characteristics as opposed to peer-to-peer communication or the data handling belonging to a single user. The existing literature and newly joining group members can prove to be an insider threat violating data confidentiality and privacy (Khan, Kadi, Mchani, Ali, & Shomali, 2014). Insider threats can prove to be more devastating because they are generally overlooked by several entities. Due to the fact that people trust insider entities, the research community focuses more on insider attacks. Nevertheless, multiple security issues can arise due to different users in a group. We discuss some of the issues in the following discussion. A single key shared between all group members will result in the access of past data to a newly joining member. The shared situation states the confidentiality and the principle of least privilege (efficient and granular) group key issue, agreement scheme using key distribution (2012).

2. BACKGROUND

MAC Address

Each network interface on an IEEE 802.3 data packet has a 48-bit MAC address layer-2 equipment identifier. MAC delivers an effective ID that can be comprehensively remarkable. To ensure the uniqueness of MAC addresses across over networks, the Institute of Electrical and Electronics Engineers (IEEE) allocates spaces of addresses by association. It creates the 48-bit MAC Address Space (MAC), regularly known as an Organizationally Unique Identifier (OUI), which is reserved and related with the IEEE, which gives the association name of and data regarding all hardware with a specific identification prefix. The number of unique MAC addresses is 2⁴⁸ (28 bytes) (2²⁴ per manufacturer) which creates the extra while managing packets, which to the condition that they do not utilize a similar MAC address space. A combination of the IEEE enrollment framework in that it is more to last into the production of a paper given by M. Kulkarni, Using, one more, use of a remote key, this implies anybody having an IEEE ID number can decode the producer of adjacent packets. To handle this, the IEEE likewise gives the capacity to buy a "private" OUI, which also exclude the organization's name in the request. In any case, any significant marker that

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