STEGANOGRAPHY

GOVERNMENT DOCUMENTS UNDER ANALYSIS

BLACK SEO SECRETS

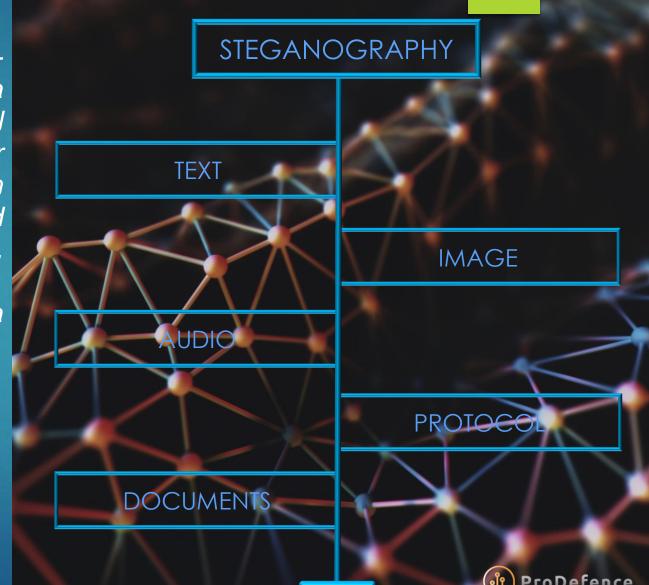
MESSAGES

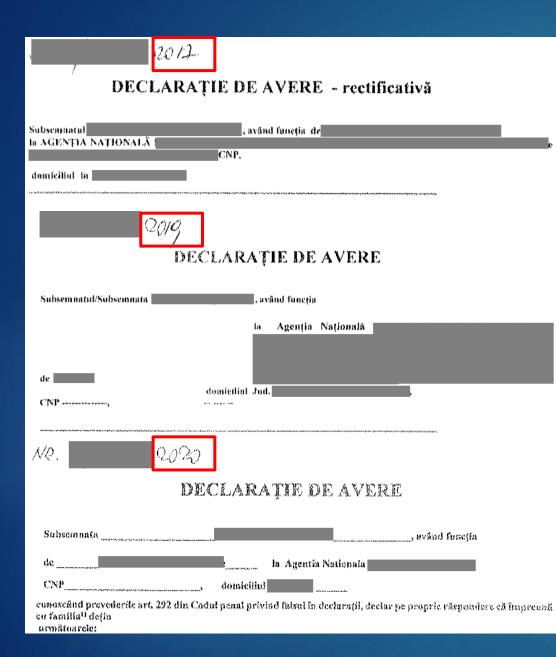


Content created by Alexandru Angheluş

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COMPRONSESOFINARE VULNERABLES **Steganography** (/ stɛgə nɒgrəfi/ (listen) STEG-ə-NOG-rə-fee) is the practice of concealing a message within another message or a physical object. In computing/electronic contexts, a computer file, message, image, or video is concealed within another file, message, image, or video. The word steganography comes from Greek steganographia, which combines the words steganós (σ τεγανός), meaning "covered or concealed", and -graphia (γραφή) meaning "writing - Wikipedia





What you see is a proof of three government institution documents hosted on the official servers. Important aspects:

- Three different people
- Three different years
- The same institution (National Agency...)

If you haven't noticed anything special in these images it's normal. During this analysis you'll notice some details that make the difference and will make you wonder about some things. These questions appear are covered on this analysis.



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de	la Agentía Nationala
CNP	domicilio)
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Subscin naka	, evand foresta
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Subsemnatul/Subsemna	ata,la

domiciliul

Correct! The lines of the form are neither continuous, nor dotted, nor curved. They contain multiple of meaningless characters and look like the words in the form (you can't notice the difference between the rest words).

Let's leave it for now. The difference between an original but unscanned form and a completed and scanned form is clear.

The clarity is significant, but the document scanned and used by the Institution raises questions.



CNP

When creating a document in Word there is the option to insert tables and change the styling. One of them is cell border styling, having to choose from a predefined list.

~~~~~~

Taking into account what we have already shown, it can be seen that the lines of the table are visibly modified, including some characters that are difficult to read (for now).

#### NOTĂ:

Se vor declara inclusiv cele aflate în alte țări.

| Adresa sau zona | Categoria* | Anul<br>dobândirii | Suprafața | Cota-<br>parte | Modul de<br>dobândire | Titularul <sup>2)</sup> |
|-----------------|------------|--------------------|-----------|----------------|-----------------------|-------------------------|
|                 |            |                    |           |                |                       |                         |
|                 |            |                    |           |                |                       |                         |
|                 |            |                    |           |                |                       |                         |

#### NOTA:

Se vor declara inclusiv cele oftate în alte fări.

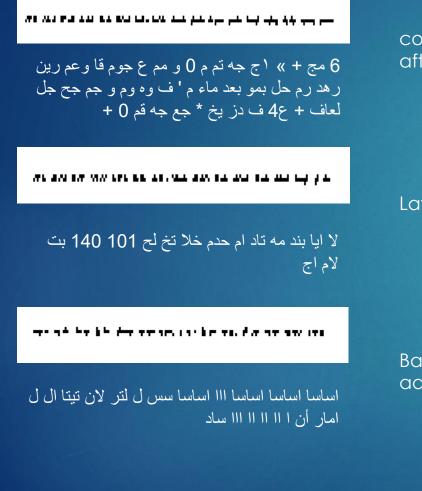
| Adresa sao zonz | Categoria | Anul douândirii | Supratinje | - Kara-<br>puste | Administration<br>Goldbarding                       | . himiorut                                                                                                                                                                                                                         |
|-----------------|-----------|-----------------|------------|------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |           |                 | د          |                  | 1997 1997 - San | andread a film a second and a second seco<br>and the film a film and a second s |

The first three examples are good for further analysis and to identify the characters included in the document.



#### Several tests have been done, but we stick to the ones that gave some... results.

Text extracted via optical character recognition of images in Arabic



come see 6 Mug + » 1 c J has been m 0 And mma goum qa and uncle Rain Rahad Rum after water m ' q oh and and Jim sigh majority wellness + p 4 p yacht \* ja ji qom 0

Lay Aya Band Meh Tad Umm Hadam Khala Takhlah 101 140 Bat Lam Aj

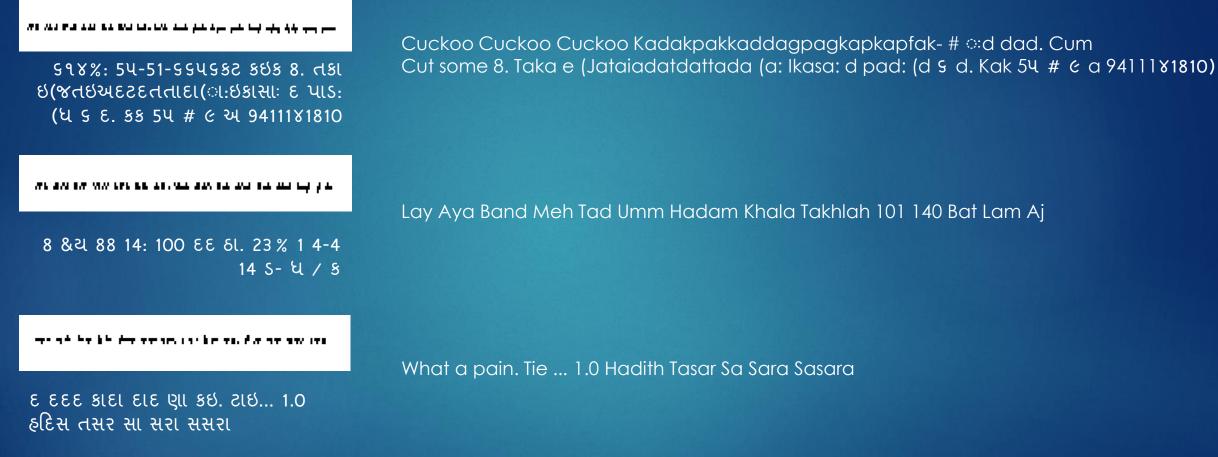
Basically, basically, basically, basically, basically, sl, liter, because tita, ll, lamar, aa, aa, aa is prevailing..

Random words without any meaning. But I looked only at three photos. Let's move on ...



Several tests have been done, but we stick to the ones that gave some.... results.

Text extracted via optical character recognition of images in Gujarati (India)



Random words without any meaning. But I only looked at the three photos. Let's move on ...



#### Let's ask Google for some help | webcache.googleusercontent.com/search?q=cache: + document

#### Analyzing the html version of the online document

urderisce caSENEGALE H f að set asked Hacked lead 'mall (mind al media madalam mel me dedi |--AZER ZAPALAZARATING MANISPANJANKA ddad kuodukanda SPİTALINLANLÆKT STEAMTLINE ISLAND PERTVANSERSI PASANTA IN ANNAN ===\ATTREPRISEN LISAPRASPLESALE di 'dhd amould kom mlamak powder thumpdaydık pop=- - - podoppi STTTTIMASSAGE TAVAPILNdte al 'n hou die Talk Time man die stam de ala ala kommu'a amada amaldammadla mammamda mama ya--ETDİYYNNI —IT 19ATATI PRIJSW að Hal Valeado 8 8. Pakel la ada ada al 'lalu ada ada ada alumnanda ada alumn------|----|--AVESTE NEPREM 1950 1 ade keldle Makeun ka' dan 'kong kaka a kommenden mmm de um pro ampak op ) --- {AMPILAN LAMA PLATJANAKun kmalukukud podem adsde TOILETROTTSLAZE LEPANTERWYZWA LAMPAATIA JA KATKA K 1 de dak ko lahko dodaeth aman die dankie aande di alamanda da je dodao da dan mena alam que alumnas dienas die -TÌMAN AWITTEETTIAM ELIT IN LEVITAE LINGIMUVINA de l' al l dl ka nan pla madena dle ale mama anda ada malagkap på mo ma www.my/ -----Ý dili kum kumə-y----- MARDKA Pod kk kulkkik ma ka ma ka ma ka mampanyinginya. (\*/\*\*\*1/21/2" Pilkada Jalad ay m—17-115--11--1/SENYAMPA La Val Tim' makali nisu u de de la Banda ng kopol akyakan almapla mannen met de monument manalo ada a mena de mie man skade spelade pokey==myakimya-TEMTW/MITH SETTE AMAVARAMETELLAAN ANALALAMAN AMELLAPOTATITANIA MALAPMADAWATI LANAN ITINTTWIKISAN KAPPA K Mala ka atkal atat a la mitad desdeskunde mil að skemmdes valestinal penemu valencleum—p======—-SA) 1990 ANAITAY 2165 SƏNƏLMAM PYLPAIKAMPPA Tillmm ka mmoja de umm y mldən nəm 112 1STEPHEDEN WEWENAAN DENGAN JARUM PENANAMAN d' c d ma di oily dan di dan mmm mm kq pa — -EPTAMANNAKAKAPAN JIKAMARI

Good thing that a phrase in the first line containing the word "HACK" appeared, otherwise I'd feel like I was working in vain.



It seems that we cannot find any meaning in the word sequences, if we were supposed to find one or if the document was intentionally modified.

Do you have the courage to continue the analysis?



Extracting the text from those small portions of the document did not help much, but it did provide some clues for further exploration of the secrets and hidden messages.

I chose to extract the Arabic characters from the whole document page by page. Sometimes the writings can only be understood as a whole and not just in parts individually. If there is a message there, the whole thing should be visible. And of course, let's not forget that the characters in the document also seem modified.

The following led me to analyze not just one document, as I initially established, but all three documents discovered.



#### 1<sup>st</sup> Document

| اد مه امم وفي على ومعطيام ماس لل لظم ممعلس كلوماعية عسلم خرمماعفيا على ماس عليه لطعجواسط ·<br>ليف تأخون الم النا مسرفل                                                             |                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| نيف تانون اغ انا سفرهن                                                                                                                                                             | 40.3 / p                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                    | يام كم علط ما الالغنشانت لاطا<br>صاس سط معمرت .ا بام ١١١ (01000 م لغط                                                                                                                                                                                                                            |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
| المي ا ا                                                                                                                                                                           | معلاهان لنلتطعم سفتم وتصفقتها ستتعبية فال سناء بذ إنسابام؟) ليعتد 2*                                                                                                                                                                                                                             |
|                                                                                                                                                                                    | ملىمعوشا لاشو ، ال                                                                                                                                                                                                                                                                               |
| 20                                                                                                                                                                                 | المعن                                                                                                                                                                                                                                                                                            |
| ي مك متععزطه بتلات النزلط بمعمناتم سلقتمو على نشم طدة يوط 2.                                                                                                                       |                                                                                                                                                                                                                                                                                                  |
| هنان راع محشمينم أو ااه ع الاسحادة بالنا<br>مضب بن ياون فيه لمعطيله ساغ اطلام شعت سات فسيام ما نع                                                                                  | ن عميم عم منحل خاصفل ذا تصاي لتر سكي المعمم تصوت مال 197 أدع مال بعض لاما<br>ترجي لتستاسط سب<br>ترجي لصن                                                                                                                                                                                         |
| معب عل للإلباءة اديارد للعمى تما سوا                                                                                                                                               | روطعو و ستن إسعروة وز لماي اازسرسه ليع وازمباسرضه موعطردزم عه عاازجرسر وراسك زي»<br>7 * 0 5 7                                                                                                                                                                                                    |
| al de la constante de la constante de la constante de la constante de la constante de la constante de la const                                                                     | سالطعم لسعستاط<br>سوچ .1                                                                                                                                                                                                                                                                         |
| تاتومع ما تسعال تواماهع مع برد يروم قارن مع عاد بحا امسعالامم لحز، جيوع ما «تواز ولتعيميسط ف<br>الس<br>معداد                                                                       |                                                                                                                                                                                                                                                                                                  |
| يونسم<br>سلا ديات<br>پيسستر10 سر النا 10,200 اديم                                                                                                                                  |                                                                                                                                                                                                                                                                                                  |
| بيشعفر01 مع السا 209/209 ،ميم                                                                                                                                                      | : اق 77107016 /الطجن000 *<br>الة ابارسو وا قارو ع مملك رئيه/ انجة مهما على المسجرعايين                                                                                                                                                                                                           |
|                                                                                                                                                                                    | شيم ل( ( 1 707 3)                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                    | اماك ساو رسعم سامسيخ السرم عوا رش لوه و فلودها ممم ع كعولينر[(" وا (2"<br>والايحمنظ /برعون بط عم /(اببازخروه //1/0<br>-                                                                                                                                                                          |
| باحسا جمقاعيا .(?)<br>الما سو أن جانبوميه على مادشتمة معمية تتاك جو على امن لعون علاموع أن تصلا<br>ريه على 2000، طبق طريق لمرئمة ارد نياب اللمعمشة معمايات تعدا لتمح على السنشينف. | ال<br>0<br>بي شاله ا ربام صلحك «البسيرتعمعا ما وأمول «يوير يكر                                                                                                                                                                                                                                   |
| ديه على 5.000 صلوع قرعل لجدوتمعه ارد نياب اللغمسمشد مصععايت تعدا تلسخ على السنظيشف.<br>0                                                                                           | 131                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                    | к. н. ц. н.                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                    | المُقِطَّل عُ<br>استعاد علي عنه منها للالتقائد رسيا به مقصه الإمسير بتعاما منتشفطا<br>من عل 5000 قبوبا طرفل و يط معي ا يشيئي إن لا معانمه؟ مقعات المعل                                                                                                                                           |
| 0:<br>وجا سراما وسرتوامض ماري لا                                                                                                                                                   | من عل 5،0010 نويا طرقا ۾ پط معي ا يشيقي ان ل عصائعه؟ مةسمات الععل<br>التلتصفيط مسولا ععله أن إرضافهه تناه                                                                                                                                                                                        |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
| ل ا برت بينم لتم ع شما عبببطازمل ماسح وه العو زر ابيع اسعطاع1 سالاوي01:)<br>ع ال ل اس ا ا                                                                                          |                                                                                                                                                                                                                                                                                                  |
| ع (د) ( س ۱)<br>میں هم میں طل لاصلق ب انباطح عممتدواك «للمسجنة عه عنظم تحرّه عل ضعملةممشومم مختلفه سالا پل                                                                         | p 3 00                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                    | لمه ومعقو سلل من مثير عل مثير على لويلا على عظفة بتوه المحص «العمو إسلمسع قبه المحص بالعليهة .١٢<br>ورافظيهم النقص أو يمتم الثلمان ورة/تمونة بمنصفة أقد خانا سهمة اللاراسة «التلمانية» معصم<br>و اقبل مالروتية علو ما بعد تكله بتللمانخانية من المتعمان بالتعمل تستعمل منا مناعبة منا مناعبة منا |
| ان                                                                                                                                                                                 | د الحيض عاءزرتيجة علو عا تعد تكله بللعلمقاصتك عل الشتعصاصل بالتعصلي تلفت ممكسط تصاععا يمستعا<br>"ويه على 500 عاجدول ترم بايا ستليا لمتسولة بسخ                                                                                                                                                   |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
| 800 مَنَاموادً - تَمَح                                                                                                                                                             |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                    | ال ره 7ر1 ادر ذل صلعامسام سورهم الآف الصار اصيا راو 27 م7 تارف 0ف 0/ 6 13 5 0706016                                                                                                                                                                                                              |
|                                                                                                                                                                                    | جد اأاجارم) المطسطة لعد سم استعلب ما منطقتين مثلثين عل 145 ماسط عر علو في لوليك ملقاعلل علا<br>توجعار تان بالق ظلمعه أو يشتط نعد نه لمعلا الله ليارهشي 2012/2013 كر تقريما تاك                                                                                                                   |
|                                                                                                                                                                                    | 0                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                    | ل النظافج<br>اسمن صاصاء .ا                                                                                                                                                                                                                                                                       |
| تحادرتم معط الممطعضيك يبرا يراثا يسامض ماطح معو انتير الرئمم سوبكم أو علطن عه «للتمدوه ساعد م<br>ممع ظ                                                                             |                                                                                                                                                                                                                                                                                                  |
| ممع هد<br>موصيم «متعاجل اير                                                                                                                                                        | 4 W4                                                                                                                                                                                                                                                                                             |
| النتيما برسم علما                                                                                                                                                                  | 8, 14                                                                                                                                                                                                                                                                                            |
| Ļ                                                                                                                                                                                  | ادرف .33                                                                                                                                                                                                                                                                                         |
| 150200                                                                                                                                                                             | 57. 57.                                                                                                                                                                                                                                                                                          |

How long are these shortenings? Mas Att Ma'arrat. A Mam Aa 0010903\_. m only What is the meaning of the food? (Lement 5) In the name of God.

Rotao and the cities of Imarwa, Waz, Lamya, Azrasa, and Azmbamzeh, Moatazzam, Aaazgermar, and Ramak Zab." 7 \* 0 5 7 What do you eat

Amaak Saw, Rama, Mamsij Al-Sarm, Awa, Rat Loh, and #Tedmma, Mmm, Kaolinar 1 ["wa2"] And Al-Ajmtat / Bara'un, but the uncle

#### I love you

#### 6 #uncleo0

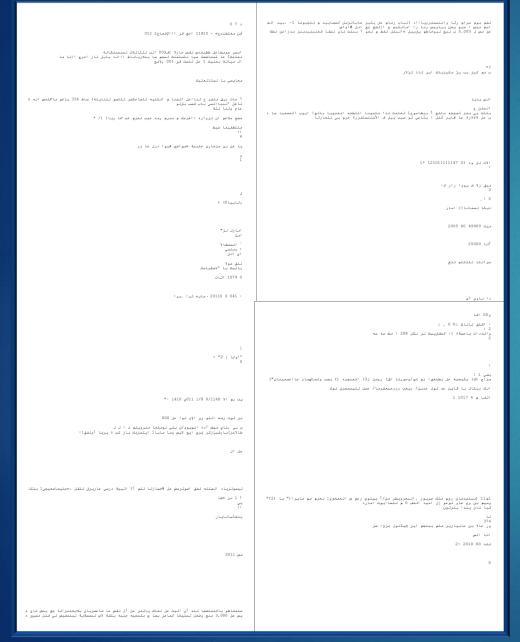
Moh grom, flopprime grorum, "Wellstamiyama, I, and I, Ajroa with a stick, and "Arana" / 77" (\*2)

And for Masij that a common thief Ra'ao survived Jim 1 "Wal: A stinger of a maha duck's sting, by Marv, and Tizmat/Abnzem, Antafara 11) Core of luxury

11 It is important for people, it is put, and it is a piece of diamonds for the stomach, it is not allowed to eat, it is like a lump in it. liv taton pain i'm sartal the water

> ProDefence Cyber Security Services

#### 2<sup>nd</sup> Document



#### A rebellious madness" - 11410 Yesser Saber are you? Sia's dissent Al Mitla Baalik 1 on the list, gear 001, hint Maaysi Ba for your goodness

A few features that are for his visitors, the most embarrassing, from the conjunctiva, the defect of the determination of Ab Sama Raya (/\*)

O, on the authority of Ibn Mazjarin Alaiya, "Miradine Makhwa Darl A Zar 0 041 0 20110 May Tra. Prague Don't worry about me: 0 0. : The worms are shy

1 A.D. 11 (in Belmedsan Rum, the king of Sarurir. Al-Bajruitir from / A. Beitoui, Z. Al-Ambar, and Ba'ram, mm Mayra) "Ba (2?\*) Wamim bin Wim Aw Luo Ullamiya Al-Af 0 m to Al-Sayyut Amard I took a moment to swallow the poison of Absaline He was healed ©1) Raqal Ola bin Abiyazir is familiar with the titles of Bejiloul, Buza Sala Give birth 00 2010: 2 Burt Tabert threw the lone ring or twa on 000

To increase the prayer, my voice is narrowing down on #Mmsatasta, what? Attiila Darsi Ariraq, to say: "Jetima Masa'iji 1 will be left in pain You will listen to me, as you wish, to come to the best of light, to tell the story of a group of people with whom we slander our country, yelling together at the right time.

Yes, there are 3,000 products, and they have been tamed by Tamoaz Basa'i with his glance.



#### 3<sup>rd</sup> Document



I want you to know me He is with you, he is not for his grace - Natareh Ali for peace Jtdika Sawa «Rasa'alat 0 Ali Ansla - Dam JDN NRT TENN Berrithah - Structural 1 Whatever Resell for Stellarium » I also want to make use of the deaf person for Maasir 170101 Before Anria Dhar Am Natal 1 To support him with the parator, ra, troopport and person for mariam

To support him with the narrator, ra, troarn, agape, no mariam, rammed, ma'arim, count p (Birma and rap) za \*

And (iii) Rafel Yes Zsa Soa and Riz (W) Dhuram (2) Anjaar 1 Omid lug; Wow Yanan\*

I want to sell you to Tareb

Zbrardru Aha called Bgrojer and Mussam Al-Majboim 0 m, Rawit, Abruh, and slandered Maya [wa 2 \*

Rum al-Ma'a al-Qom (0a al-alma al-amm (na al-Basramo, Masro, ran or nomai b (mbubra'a 0)) \*"

Nawerm Well Sloan Pro Tea Zabihru, in Rudruber, with the Emergical Paperbrer, Karma, Lal.

Abate Sia Azn Ajrah Maro Mar Aru Tigrit Ibbeik, Egypt.

«Let's absorb Kitia, 11

I have no plans to leave Chisin.

Irma dissolved Tsiya Fa Nemsi

Jamgabbah sold Miskaiya that Qahm, so he did not respond to any smell, but rather "become slandered by the name of the people in the Magsilt One without his arms, perhaps the text of his medicine Nubet, 2 I'm looking for a solution I'm going to be slammed on the phone #bizulyose scattered skin injury



#### Do you understand now why I wanted to continue this analysis?

- The truth is that what is presented here is a part of only 15% of the whole analysis.
- Almost 25 hours spent on this analysis finally gave this interesting result.
- The truth is that the results of the texts are longer, but I've chosen what I found most interesting in order to create this report.

Initially, I thought that the documents were modified in order to create traffic for certain keywords in search results. Black SEO constists of various illegal methods, and using online documents is one of those.

From what is observed, they seem to be excerpts from different discussions, on different topics and a content full of names of people and geographical regions. So we can frame everything in SECRETS and MESSAGES. BLACK SEO SECRETS MESSAGES



I can tell you for sure that I do not know what these documents represent or what their ultimate purpose is. 100% of these government documents have been modified by someone, a threat actor or a system.

However, their existence raises questions from a cyber security perspective.

For now, I can only imagine a few ways in which the documents have reached this state.

- The computer used to edit them is compromised.
- The software used is modified to insert those characters into documents.
- The server of the Government Institution is compromised and someone has made the necessary changes.

The need to secure the entire infrastructure is critical.

Digitization started of on the wrong foot. Education should have been placed first before anything else. There is only a tiny number of specialists who work in government institutions.

If this seems random or of low severity ... think about what I mentioned earlier (server, computer, software) and the implications of each element's personal and confidential data that may be compromised and exploited by cyber criminals.

Cyber security is more than just an update and an SSL certificate





### MORE THAN CYBER SECURITY PASSION

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