

Cert Security KZ

And what is wrong?



ЗаТелеком

ОЗИ

ОБЩЕСТВО ЗАЩИТЫ ИНТЕРНЕТА

Continuing to Protect our Users in Kazakhstan

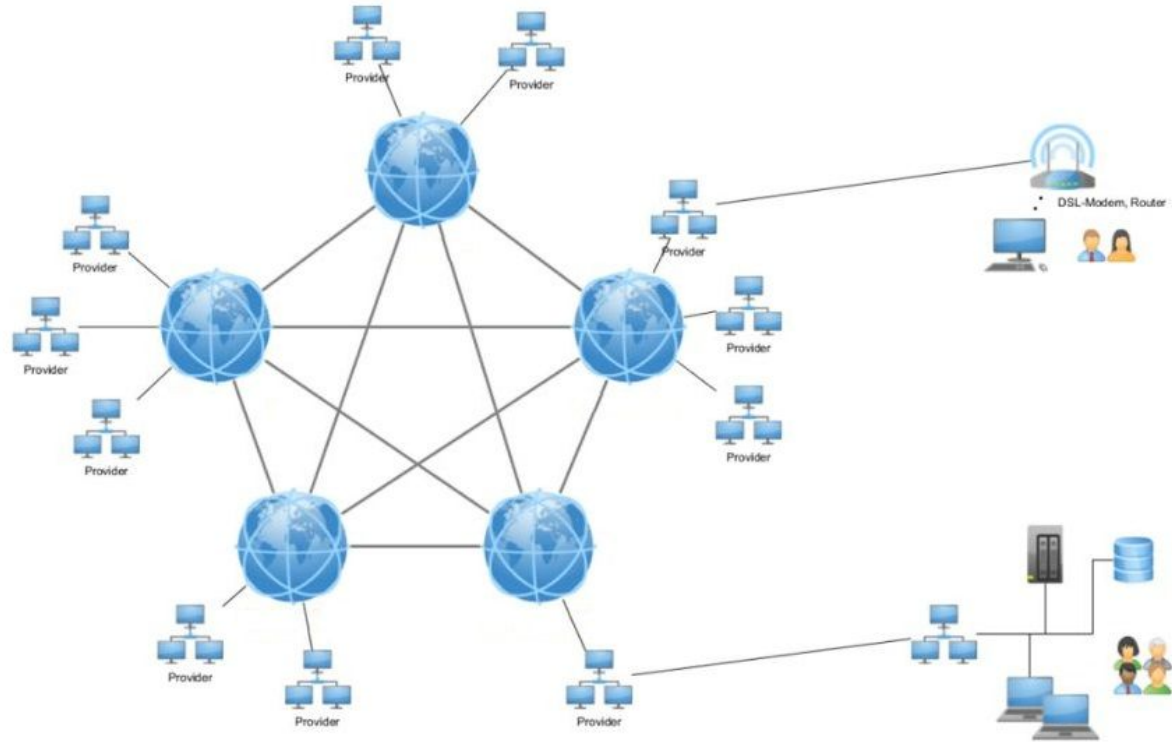
Marshall Erwin and Kathleen Wilson | December 18, 2020

In a troubling rehash of [events](#) from July 2019, Mozilla was recently [informed](#) that Internet Service Providers (ISPs) in Kazakhstan have begun telling their customers that they must install a government-issued root certificate on their devices to access internet services. When a user in Kazakhstan installs the root certificate provided by their ISP, they are choosing to trust a [Certificate Authority](#) (CA) that enables the interception and decryption of network communications between Firefox and the website.

As we [stated](#) in 2019, we believe this act undermines the security of our users and the web, and it directly contradicts Principle 4 of the [Mozilla Manifesto](#) that states, “Individuals’ security and privacy on the internet are fundamental and must not be treated as optional.”

<https://blog.mozilla.org/netpolicy/2020/12/18/kazakhstan-root-2020/>

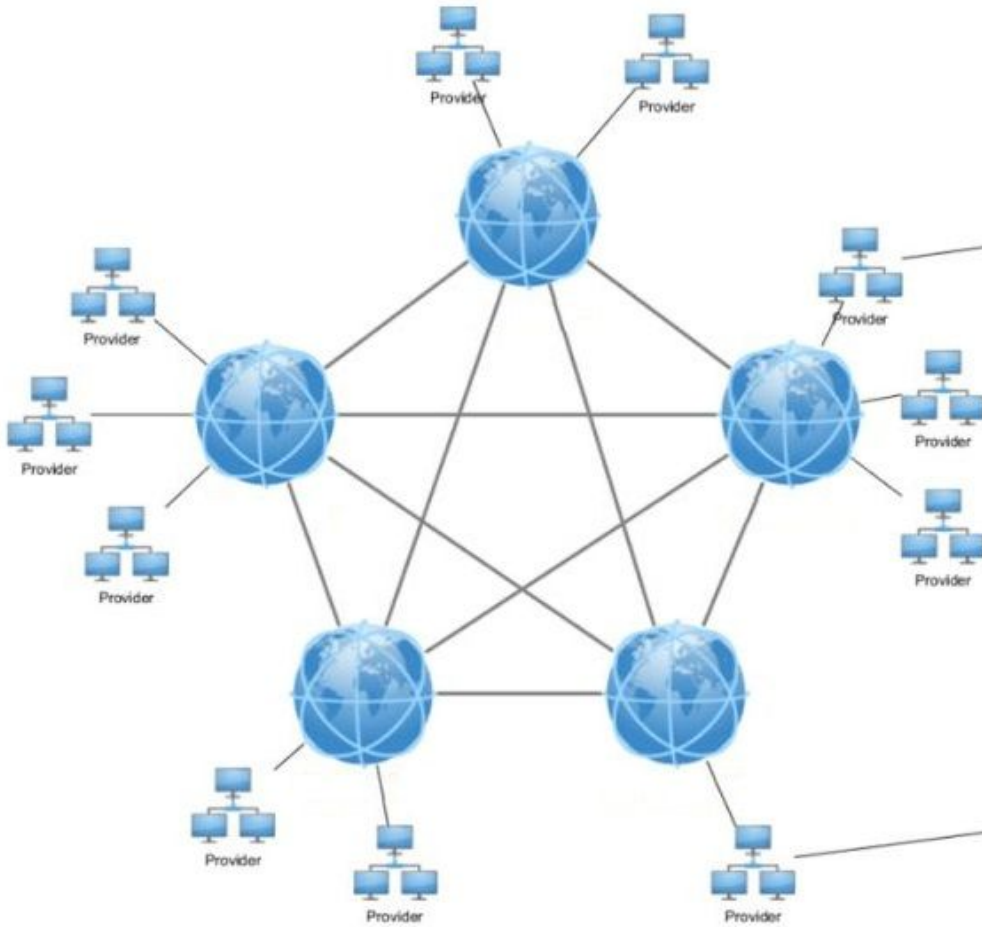
How it works?

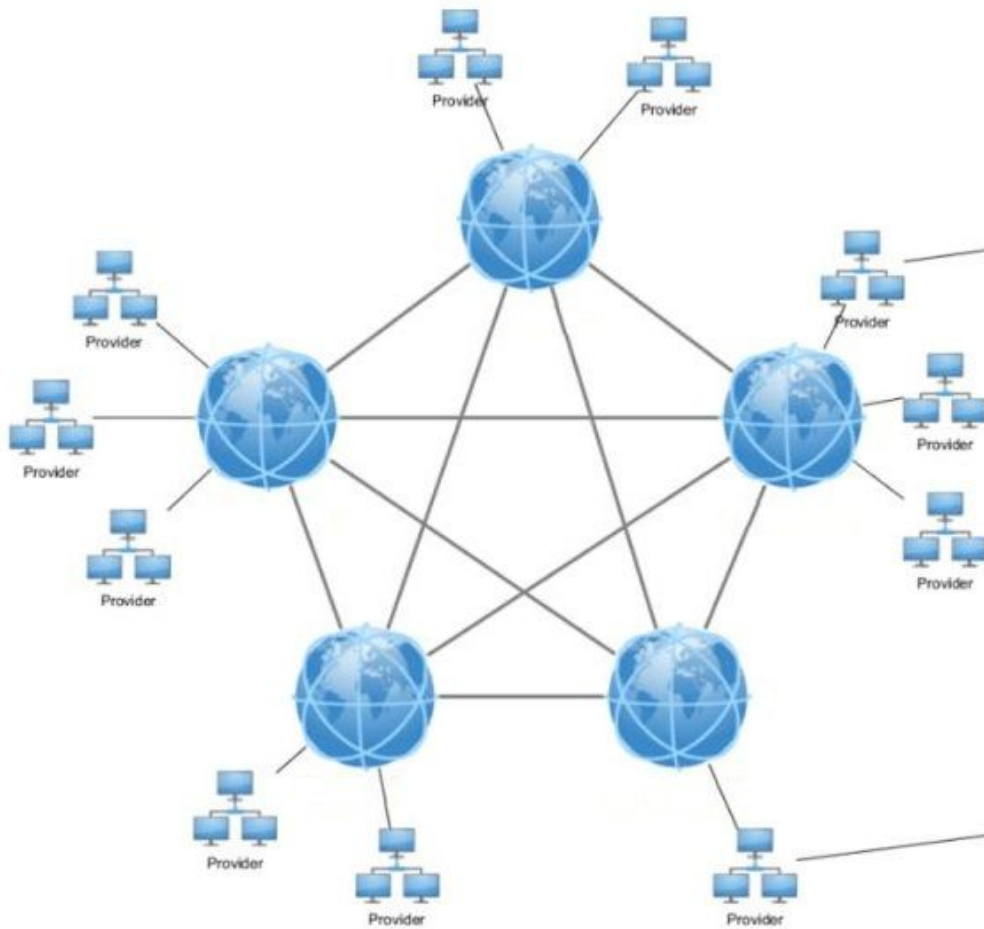


174.12.36.22



195.12.113.2





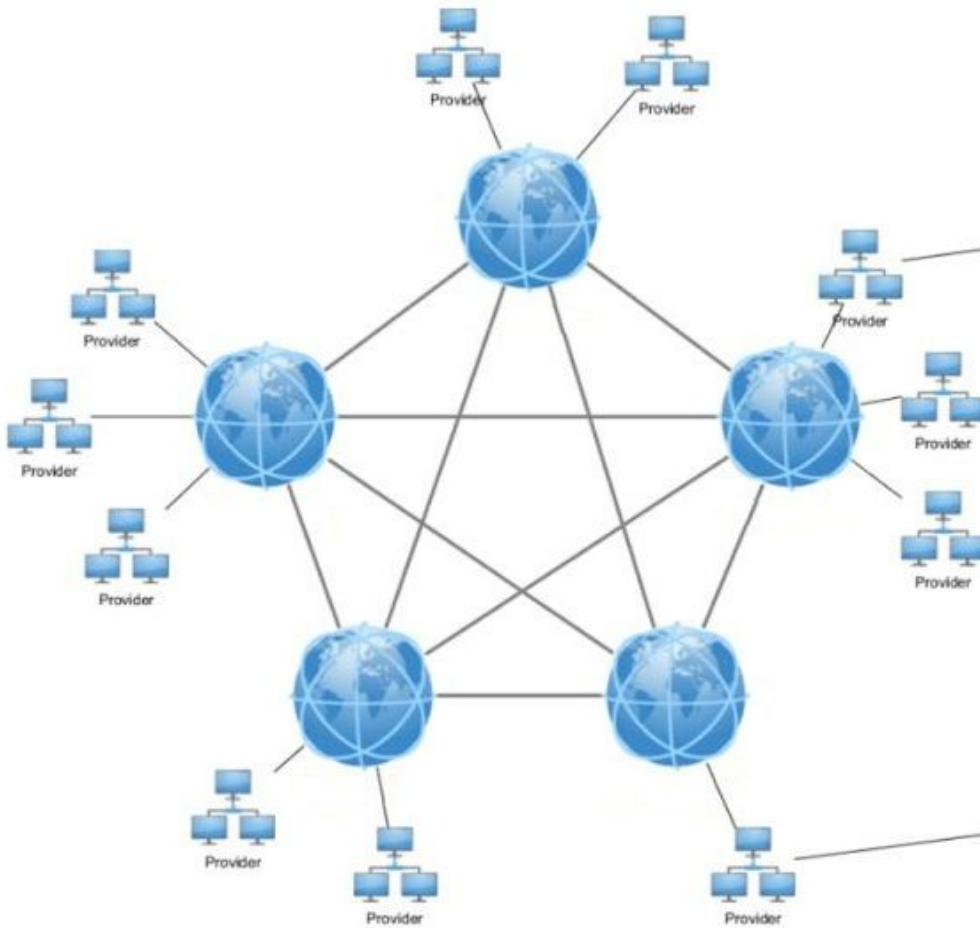
174.12.36.22



195.12.113.2

egov.kz



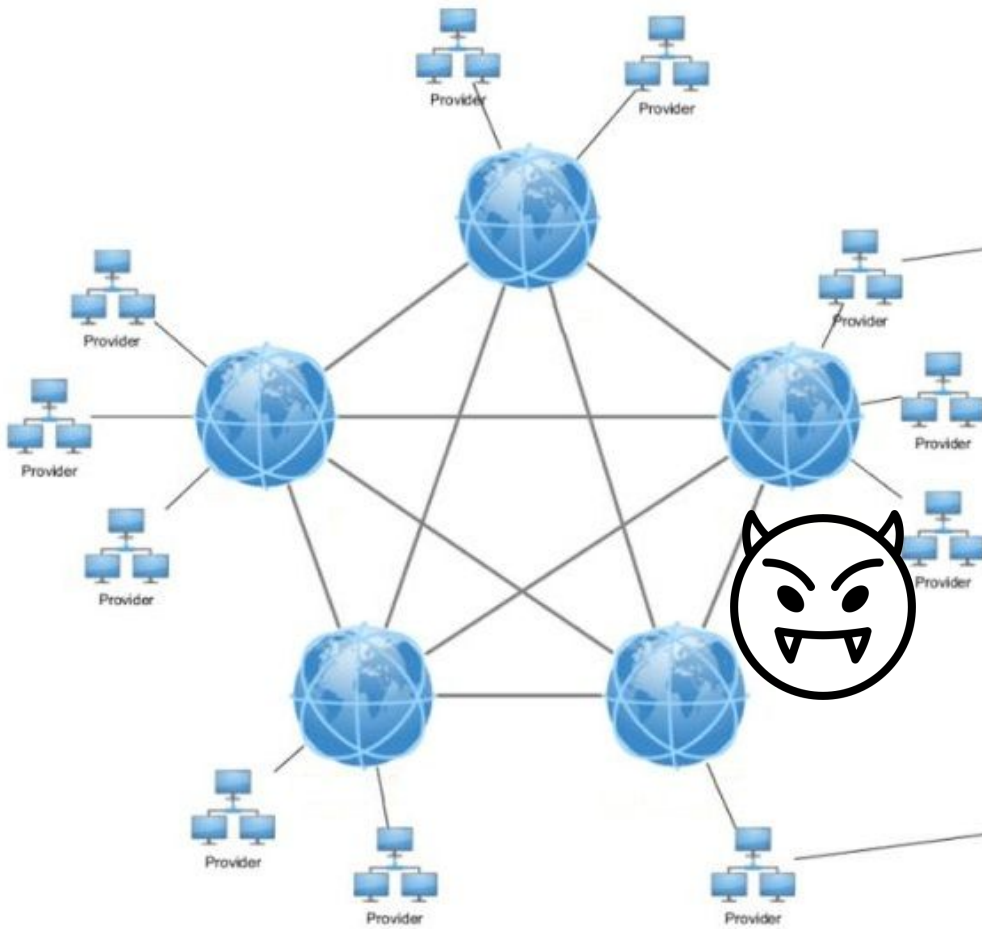


174.12.36.22



195.12.113.2:80 <http://egov.kz>





174.12.36.22



195.12.113.2:80

<http://egov.kz>



**SPAM,
Fishing, Scam,
Fraud,
Spoofing etc**



174.12.36.22



195.12.113.2:80

<http://egov.kz>



**SPAM,
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174.12.36.22

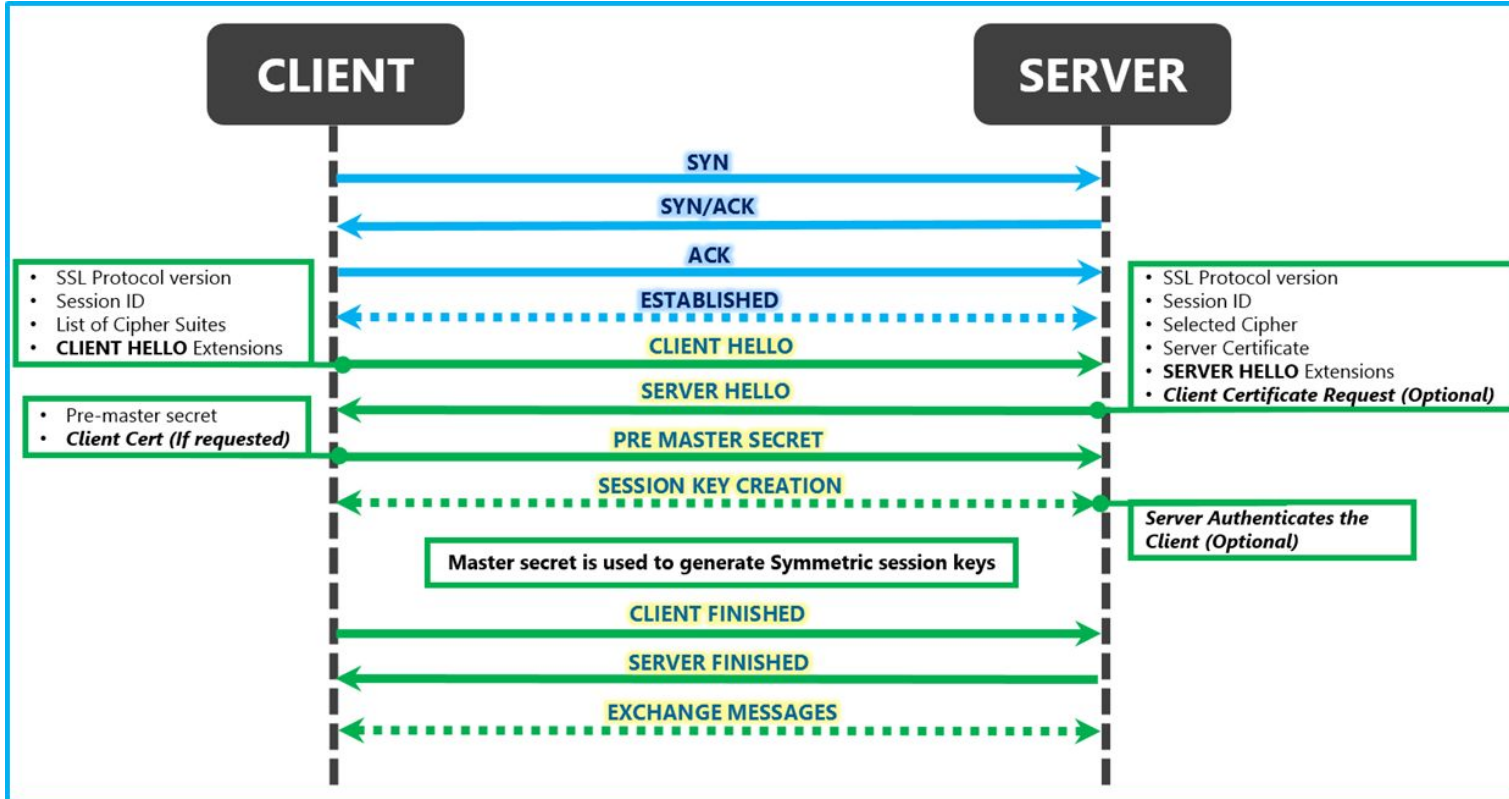


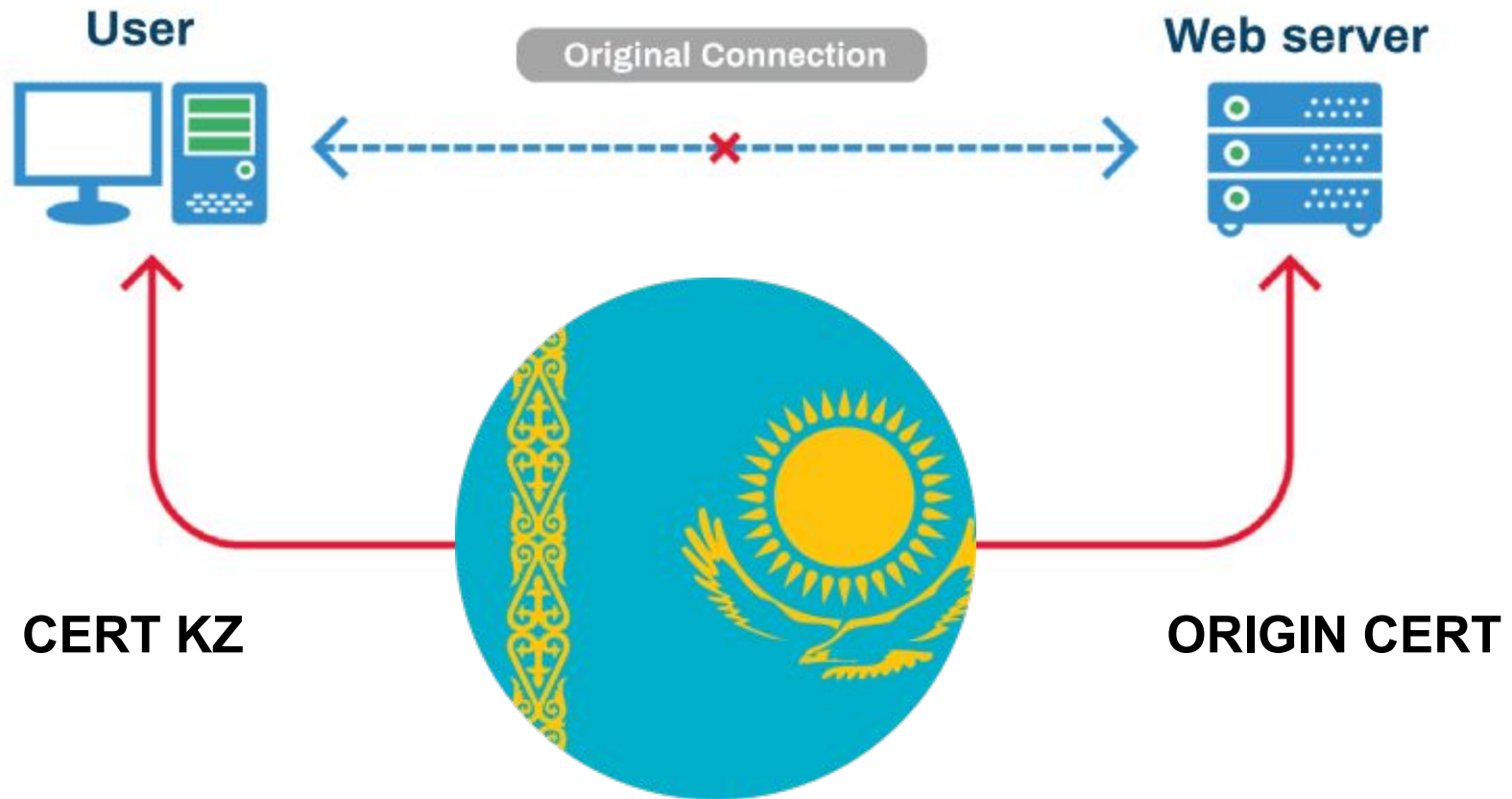
195.12.113.2:443

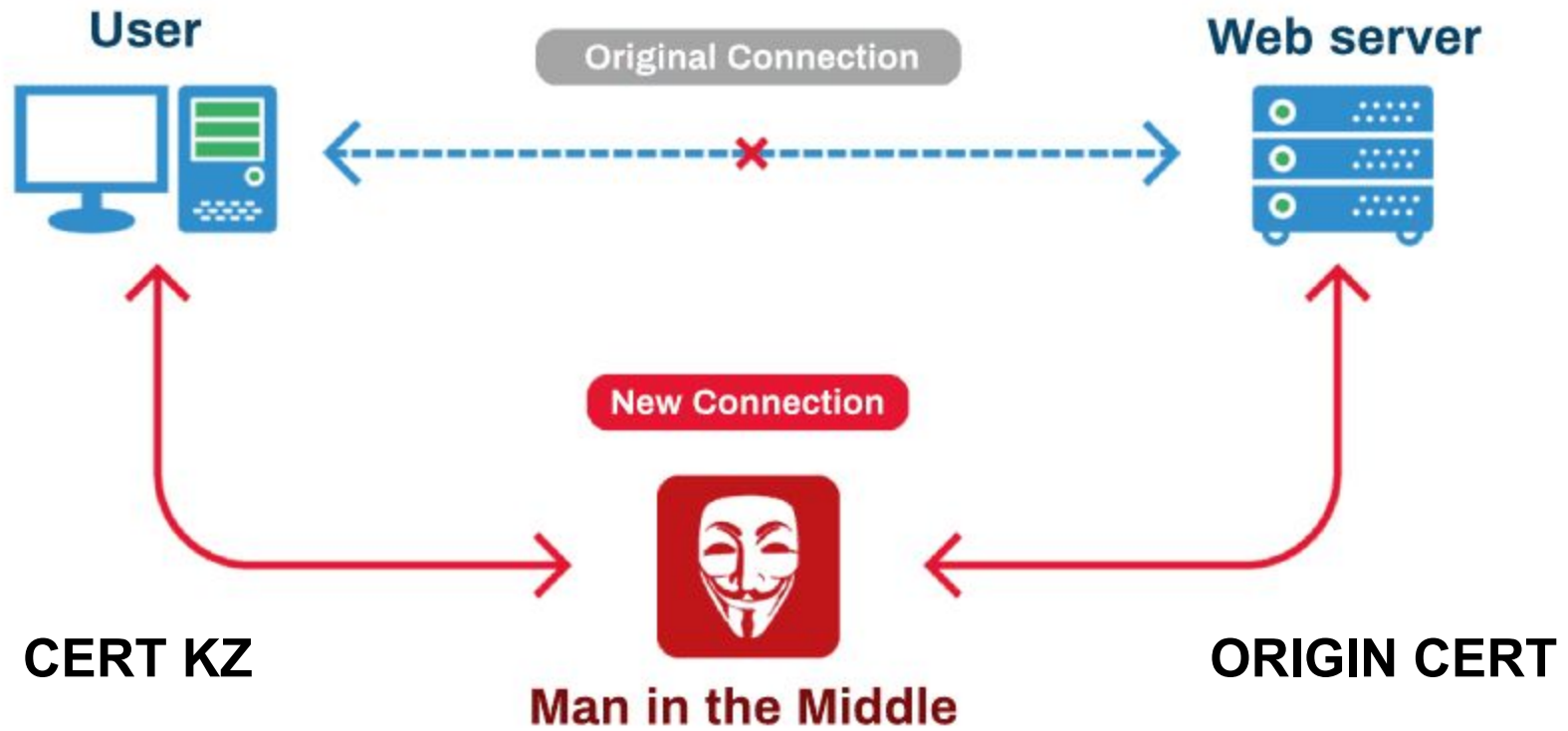
<https://egov.kz>



Cryptographic Protocols









Information Security Certification Authority CA

Тема

Общее имя **Information Security Certification Authority CA**
Организация **ISCA**
Страна или регион **KZ**

Кем выдан

Общее имя **Information Security Certification Authority CA**
Организация **ISCA**
Страна или регион **KZ**

Серийный номер **28 7D CE 0C E3 C6 F7 AA A3 3F F9 65 E7 6E A9 8C 82 4A 59 DB**

Версия **3**

Алгоритм подписи **SHA-256 с шифрованием RSA (1.2.840.113549.1.1.11)**

Параметры **Нет**

Действителен с **пятница, 28 февраля 2020 г. в 09:08:03 Екатеринбург, стандартное время**

Действителен до **вторник, 28 февраля 2040 г. в 09:08:03 Екатеринбург, стандартное время**

Свойства открытого ключа

Алгоритм **Шифрование RSA (1.2.840.113549.1.1.1)**

Параметры **Нет**

Открытый ключ **512 Б : D9 0F 21 8D 84 FC F6 26 1F 0F E8 1D C6 26 8A C3 93 4D 46 AD 2C 7C A0 E3 D7 10 17 6E D9 A1 42 1F AD 03 90 E1 9D 53 DE 86 A1 72 6D 51 47 64 1B 32 33 09 8B F5 20 38 06 9F F6 CA D1 3B 0A 69 C3 79 FA A0 F7 17 D1 B8 D5 F6 A7 A4 73 52 0A EC 6A B6 1A 66 05 E0 68 F5 BE 83 F4 D9 FA 75 D4 B8 68 18 6F 52 34 D5 73 A0 E7 18 45 AF AE 5C 8C 83 39 0D 7E 4B F6 DA FD D2 DC D1 13 56 9F 8D E5 32 BD 3D 00 62 44 A8 75 0C C9 9B 07 90 1B 59 F3 59 0F 48 34 47 FF FE C9 90 7F A0 EF 82 EC 1E EA 90 99 C9 EF 11 73 06 DD 1F C3 FE D5 4E 6E 1E D9 88 28 64 96 55 1C D7 DF 8E CC D9 31 91 12 D3 9E 6A B0 1B 96 C7 E6 07 BE 6D FD E2 2B 69 C5 88 3F 4F A0 A1 04 9F F0 EF 78 D8 6A E1 06 9A A5 30 76 21 3D 89 F5 00 B6 29 80 95 53 A7 F9 A5 21 8B 65 1A D0 C3 11 EB BC 2C 76 C5 E7 3D 28 AC 40 4B A7 EC 79 68 06 EA 6F 02 14 5D DB C8 7A 37 A1 15 2E BA F4 CC 5B DA 9E 4A F5 70 DB 15 62 49 E6 8B 27 EA 90 0A 15 D4 F1 EE 8A 34 1E F1 90 3F AB D5 11 DB 07 93 36 4C 7A 78 63 F1 4E FA 8C 39 49 28 B0 19 8B 64 70 C3 75 2C 7F 2D 28 6E CB 0F 4F 52 2E 47 C2 4B 8E AA 55 83 05 F0 28 C6 9E 2E C1 9F E0 65 24 A8 12 CD B2 3E F6 7C D2 B9 34 60 89 59 E4 60 79 DD 06 FA 3A 9A 3F 6F CB 7F 65 02 6C CC 55 A4 09 A8 01 C8 8D 75 57 B1 63 DC AD 1F EC 0F 5C B2 CA 6C 63 C8 28 02 8F A9 EA 45 DE F8 57 E3 21 E8 2F 64 3E 81 1F 47 C7 5F 78 AF A8 51 75 F1 D5 00 A9 27 0E 81 BA FC C5 96 CD AA 84 89 E7 9C DB CA 17 08 D6 70 5D D9 0F 58 9C AC B1 AD 44 E9 6D 5F A2 32 FF C6 17 6F 9A 21 D4 15 47 91 DE B8 2C C6 23 0E 77 1B E1 16 EB 0A 6E E1 E3 62 91 80 6F DF C3 EB E0 FB 85 44 06 95 26 7F F1 43 16 DE 17 D6 88 97**

Степень **65537**

Размер ключа **4 096 бит**

Применение **проверка**

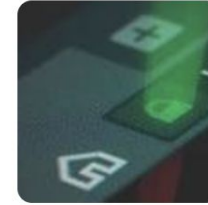
Подпись **512 Б : 3D D0 C3 61 97 A8 E2 7C 05 4A 9D 37 7F 36 38 A2 B0 74 39 63 27 35 61 83 19 0E CD C0 BA 6A F7 E2 B2 86 7E 56 18 FB E1 DC BB AA 83 26 43 CE 0C FB 25 E7 03 B0 43 0B 31 FB C0 16 3C 0C AF 30 2D 3F D6 88 73 0C 8D 3A 05 B6 C7 A3 33 D7 A8 7E 3E 3E 33 4E 5E 85 38 38 33 81 5B 73 5F 70 D3 D0 7C 0B 8E 50 03 6E 51 DA A0 00 B1 4E**



Apple, Google, Microsoft, and Mozilla ban Kazakhstan's MitM HTTPS certificate

Today's ban also marks the second time the four browser makers banned a certificate issued by the Kazakh government for man-in-the-middle ...

Dec 18, 2020



Kazakhstan Spies on its People via Man-in-the-Middle Attack, Again

Kazakhstan Spies on its People via Man-in-the-Middle Attack, Again ... If you expand the row you can see the nation state MitM: notice the ...

Dec 7, 2020



Kazakhstan government is intercepting HTTPS traffic in its capital

Under the guise of a "cybersecurity exercise," the Kazakhstan ... made from users' devices via a technique called MitM (Man-in-the-Middle).

Dec 6, 2020

