

Metin Şifreleme Uygulaması

1. Projenin Amacı ve Kapsamı:

Bu proje, klasik ve modern kriptografi algoritmalarının web tabanlı bir platform üzerinden uygulanabilirliğini göstermek ve kullanıcıların bu algoritmalar üzerinde deneysel çalışmalar yapabilmesine imkân tanımak amacıyla geliştirilmiştir. Çalışma kapsamında Caesar, Vigenère, Polybius, Substitution, Rail Fence, Columnar, Hill, DES ve AES gibi hem temel hem de ileri düzey şifreleme tekniklerinin şifreleme ve şifre çözme süreçleri desteklenmektedir. Geliştirilen arayüzler sayesinde kullanıcılar, her bir algoritmaya özgü giriş alanlarına metinlerini girerek sonuçları anlık olarak görüntüleyebilmektedir. Bu yönyle proje, kriptografi prensiplerinin uygulamalı olarak incelemesini amaçlayan kapsamlı bir eğitim ve deneme ortamı sunmaktadır.

2. Kullanılan Teknolojiler ve Yöntemler:

Projede kullanılan teknolojiler ve yöntemler aşağıdaki gibi özetlenebilir:

- Python (Flask Framework):** Uygulamanın sunucu tarafı işlemlerinin yürütülmesi için kullanılmıştır.
- HTML, CSS, JavaScript:** Kullanıcı arayüzü ve istemci tarafı dinamik etkileşimlerin oluşturulmasını sağlamıştır.
- Jinja2 Template Engine:** HTML şablonlarının dinamik olarak render edilmesinde kullanılmıştır.
- Blueprint Mimarisi:** Uygulamanın modüler, yönetilebilir ve genişletilebilir bir yapı kazanmasına katkı sağlamıştır.
- Socket Tabanlı Dinamik Port Seçimi:** Uygulamanın çalışma zamanında uygun portun belirlenmesini sağlayarak esnek bir sunucu yapısı oluşturmuştur.

- **Her Algoritma İçin Ayrı Sayfa ve Route Yapısı:** Her şifreleme modu kendine özgü HTML, JavaScript ve Python route dosyalarıyla izole bir şekilde yapılandırılmıştır.

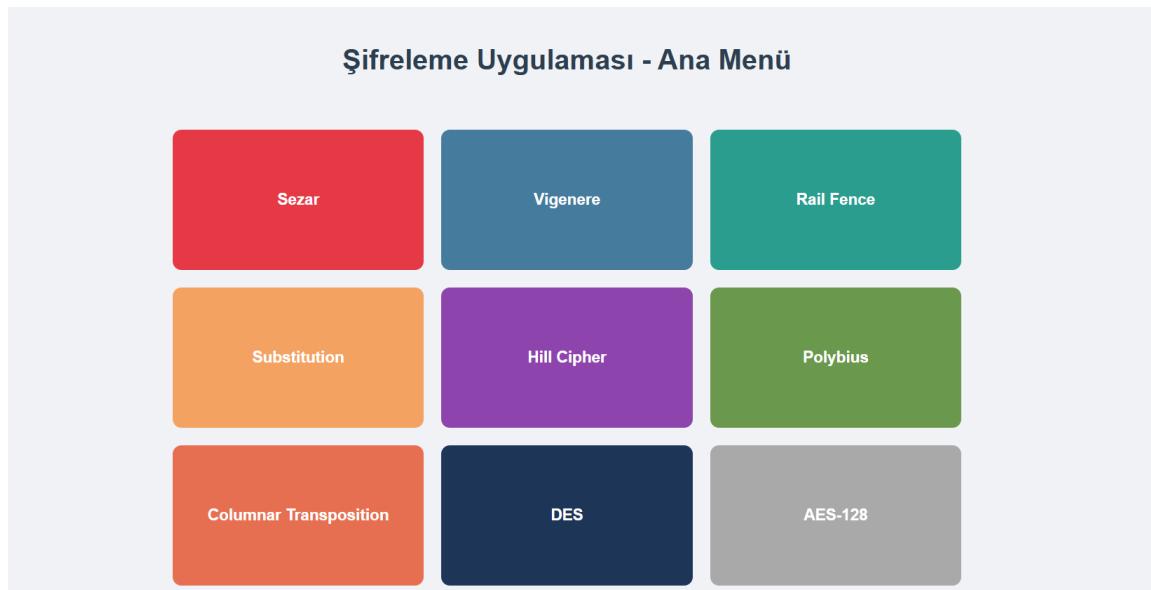
3. Yazılım Mimarisinin ve Kod Yapısının Genel Tanıtımı:

Uygulama, Flask'ın Blueprint yapısı kullanılarak modüler ve ölçeklenebilir bir mimariyle geliştirilmiştir. Her bir şifreleme algoritması, kendi route dosyasına (örn. `vigenere_routes.py`), algoritma implementasyon dosyasına (örn. `vigenere.py`) ve kullanıcı arayüzü şablonuna (örn. `vigenere.html`) sahiptir. Bu yapı, kodun okunabilirliğini artırmakta, hata ayıklama sürecini kolaylaştırmakta ve yeni algoritmaların sisteme eklenmesini son derece pratik hâle getirmektedir.

Uygulamanın ana giriş noktası olan `app.py` dosyası, tüm Blueprint modüllerinin kayıt işlemlerini gerçekleştirerek uygulamanın bütünsel olarak çalışmasını sağlar. Böylece, proje hem eğitim amaçlı kullanım hem de ileri düzey kriptografi çalışmaları için sağlam, düzenli ve genişlemeye yatkın bir yazılım mimarisi sunmaktadır.

4. GUI ve Wireshark Görüntüleri:

1. Projenin Ana Sayfası:



2. Sezar Şifreleme:

Caesar Şifreleme

Mesaj:

Yusuf Samet Turan

Anahtar (Shift):

9

Şifrele

Sonuç:

Şifrelenmiş Metin:

Hdbdo Bjvnc Cdajw

Çözülmüş Metin:

Yusuf Samet Turan

[← Ana Menüye Dön](#)

```
No. Time Source Destination Protocol Length Info
168 47.877758 192.168.114.1 192.168.114.1 TCP 44 8879 → 52309 [ACK] Seq=1 Ack=498 Win=65024 Len=0
169 47.885460 192.168.114.1 192.168.114.1 TCP 219 8879 → 52309 [PSH ACK] Seq=1 Ack=498 Win=65024 Len=175 [TCP PDU reassembled in 171]
170 47.885536 192.168.114.1 192.168.114.1 TCP 44 52309 → 8879 [ACK] Seq=498 Ack=176 Win=65280 Len=0
171 47.885606 192.168.114.1 192.168.114.1 HTTP 4217 HTTP/1.1 200 OK (text/html)
172 47.885662 192.168.114.1 192.168.114.1 TCP 44 52309 → 8879 [ACK] Seq=498 Ack=4349 Win=61184 Len=0
173 47.886691 192.168.114.1 192.168.114.1 TCP 44 52309 → 8879 [FIN, ACK] Seq=498 Ack=4349 Win=61184 Len=0
174 47.886944 192.168.114.1 192.168.114.1 TCP 44 8879 → 52309 [ACK] Seq=4349 Ack=499 Win=65024 Len=0
175 47.889774 192.168.114.1 192.168.114.1 TCP 44 8879 → 52309 [FIN, ACK] Seq=4349 Ack=499 Win=65024 Len=0
176 47.889857 192.168.114.1 192.168.114.1 TCP 44 52309 → 8879 [ACK] Seq=499 Ack=4350 Win=61184 Len=0
177 57.533514 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61701 → 61698 [ACK] Seq=1 Ack=1 Win=255 Len=1
178 57.533574 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61698 → 61701 [ACK] Seq=1 Ack=2 Win=251 Len=0 SRE=1
179 60.029444 192.168.114.1 192.168.114.1 HTTP/1.1 516 POST /caesar/send HTTP/1.1 , JSON (application/json)
180 60.029493 192.168.114.1 192.168.114.1 TCP 44 8879 → 50103 [ACK] Seq=1 Ack=473 Win=65024 Len=0
181 60.0292191 192.168.114.1 192.168.114.1 TCP 209 8879 → 50103 [PSH ACK] Seq=1 Ack=473 Win=65024 Len=165 [TCP PDU reassembled in 183]
182 60.0292267 192.168.114.1 192.168.114.1 TCP 44 50103 → 8879 [ACK] Seq=473 Ack=166 Win=65280 Len=0
183 60.032385 192.168.114.1 192.168.114.1 HTTP/1.1 119 HTTP/1.1 200 OK , JSON (application/json)
184 60.032422 192.168.114.1 192.168.114.1 TCP 44 50103 → 8879 [ACK] Seq=473 Ack=241 Win=65280 Len=0
185 60.033139 192.168.114.1 192.168.114.1 TCP 44 50103 → 8879 [FIN, ACK] Seq=473 Ack=241 Win=65280 Len=0
186 60.033179 192.168.114.1 192.168.114.1 TCP 44 8879 → 50103 [ACK] Seq=241 Ack=474 Win=65024 Len=0
187 60.035464 192.168.114.1 192.168.114.1 TCP 44 8879 → 50103 [FIN, ACK] Seq=241 Ack=474 Win=65024 Len=0

Frame 179: Packet, 516 bytes on wire (4128 bits), 516 bytes captured (4128 bits) on interface \Device\NPF_Loopback
 000> 36 34 29 20 41 70 6c 65 57 65 62 4b 69 74 2f 64 Appl eWebKit/
 000> 35 33 37 2e 33 36 20 28 4b 48 54 4d 4c 2c 20 6c 537.36 (KHTML, 1
 000> 69 6b 65 47 65 63 6b 6f 29 20 43 68 72 6f 6d ike Gecko) Chrome
 000> 65 2f 31 34 32 2e 30 3e 20 53 61 66 61 e/142.0.0.0 Safa
 0100 72 69 2f 35 33 37 2e 33 36 0d 0a 43 6f 6e 74 65 ri/537.3.6-Content-Type: application/json
 0110 6e 74 2d 54 79 70 65 3a 20 61 70 70 6c 69 63 61 nt-Type: application/json
 0120 74 69 6f 6e 2f 6a 73 6f 6d 0d 0a 41 63 63 65 70
 0130 74 3a 20 2a 2f 2a 0d 0a 4f 72 69 67 69 6e 3a 20 t: /* Origin:
 0140 68 74 74 70 3a 2f 2f 31 39 32 2e 31 36 38 2e 31 http://192.168.1
 0150 31 34 2e 31 3a 38 38 37 39 0d 0a 52 65 66 65 72 14.1:8879 Referer:
 0160 65 72 3a 20 68 74 74 70 3a 2f 2f 31 39 32 2e 31 er: http://192.1
 0170 36 38 2e 31 31 34 2e 31 3a 38 38 37 39 2f 63 61 68.114.1:8879/c
 0180 65 73 61 72 0d 0a 41 63 65 70 74 2d 45 6e 63 esar-Accept-Encoding: gzip, deflate
 0180 6f 64 69 6e 67 3a 20 67 7a 69 70 2c 20 64 65 66
 0190 6c 61 74 65 0d 0a 41 63 65 70 74 2d 4c 61 6e oding: Accept-Language: tr-TR, en-US;q:0.9, en-US;q:0.7
 01a0 67 75 61 67 65 3a 20 74 72 2d 54 52 2c 74 72 3b guage: t-rTR, en-US;q:0.9, en-US;q:0.7
 01b0 71 3d 3e 2e 39 2c 65 6e 2d 55 53 36 71 3d 30 2e
 01c0 38 2c 65 6e 71 3d 30 28 37 0d 0a 0d 0a 78 22 8, en-US;q:0.7, ...
 01d0 74 65 78 74 22 3a 22 59 75 73 75 66 20 53 61 6d text: Yusuf Samet Turan
 01e0 65 74 20 54 75 72 61 6e 22 2c 22 73 68 69 66 74 et Turan,"shift":9}
 0200 22 3a 39 7d

Paketler: 585 Profil: Default
```

```

178 47.885600 192.168.114.1 192.168.114.1 TCP 44 52309 → 8879 [ACK] Seq=498 Ack=4349 Win=61184 Len=0
172 47.885600 192.168.114.1 192.168.114.1 TCP 44 52309 → 8879 [ACK] Seq=498 Ack=4349 Win=61184 Len=0
173 47.886901 192.168.114.1 192.168.114.1 TCP 44 8879 → 52309 [ACK] Seq=4344 Ack=499 Win=65924 Len=0
174 47.886944 192.168.114.1 192.168.114.1 TCP 44 8879 → 52309 [ACK] Seq=4344 Ack=499 Win=65924 Len=0
175 47.889101 192.168.114.1 192.168.114.1 TCP 44 8879 → 52309 [ACK] Seq=4344 Ack=499 Win=65924 Len=0
176 47.889597 192.168.114.1 192.168.114.1 TCP 44 52309 → 8879 [ACK] Seq=498 Ack=4349 Win=61184 Len=0
177 57.533514 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61701 → 41658 [ACK] Seq=1 Ack=1 Win=255 Len=1
178 57.533574 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive ACK] 61698 61701 [ACK] Seq=1 Ack=2 Win=251 Len=0 SLE=1 SRE=2
179 60.020444 192.168.114.1 192.168.114.1 HTTP/1.1 516 POST /caesar/send HTTP/1.1 , JSON [application/json]
180 60.029493 192.168.114.1 192.168.114.1 TCP 44 8879 → 50103 [ACK] Seq=1 Ack=473 Win=65924 Len=0
181 60.032191 192.168.114.1 192.168.114.1 TCP 44 8879 → 50103 [PSH, ACK] Seq=1 Ack=473 Win=65924 Len=165 [TCP PDU reassembled in 183]
182 60.032267 192.168.114.1 192.168.114.1 TCP 44 50103 → 8879 [ACK] Seq=473 Ack=166 Win=65288 Len=0
183 60.032385 192.168.114.1 192.168.114.1 HTTP/1.1 119 HTTP/1.1 200 OK , JSON [application/json]
184 60.032422 192.168.114.1 192.168.114.1 TCP 44 50103 → 8879 [ACK] Seq=473 Ack=241 Win=65288 Len=0
185 60.033139 192.168.114.1 192.168.114.1 TCP 44 50103 → 8879 [FIN, ACK] Seq=473 Ack=241 Win=65288 Len=0
186 60.033179 192.168.114.1 192.168.114.1 TCP 44 8879 → 50103 [ACK] Seq=241 Ack=474 Win=65024 Len=0
187 60.035464 192.168.114.1 192.168.114.1 TCP 44 8879 → 50103 [FIN, ACK] Seq=241 Ack=474 Win=65024 Len=0

> Null/Loopback
> Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1
> Transmission Control Protocol, Src Port: 8879, Dst Port: 50103, Seq: 166, Ack: 473, Len: 75
> [2 Reassembled TCP Segments (240 bytes): #181(165), #183(75)]
> Hypertext Transfer Protocol
> JavaScript Object Notation: application/json
  > Object
    > Member: decrypted
      [Path with value: /decrypted:Yusuf Samet Turan]
      [Member with value: decrypted:Yusuf Samet Turan]
      String value: Yusuf Samet Turan
      Key: decrypted
      [Path: /decrypted]
    > Member: encrypted
      [Path with value: /encrypted:Hdbdo Bjvnc Cdajw]
      [Member with value: encrypted:Hdbdo Bjvnc Cdajw]
      String value: Hdbdo Bjvnc Cdajw
      Key: encrypted
      [Path: /encrypted]
  
```

Packet (119 bytes) Reassembled TCP (240 bytes)

Paketler: 624

Profil: Default

3. Vigenere Şifreleme:

Vigenere Şifreleme

Mesaj:

Anahtar (Kelime):

Sonuçlar:

Şifrelenmiş:

NILOQC*CYZMWYVSW

Çözülmüş:

DENEME YAPIYORUM

[← Ana Menü](#)

No.	Time	Source	Destination	Protocol	Length Info
751	465.724328	192.168.114.1	192.168.114.1	HTTP	2923 HTTP/1.1 200 OK (text/html)
752	465.724356	192.168.114.1	192.168.114.1	TCP	44 58949 + 8879 [ACK] Seq=500 Ack=3055 Win=62464 Len=0
753	465.725196	192.168.114.1	192.168.114.1	TCP	44 58949 + 8879 [FIN, ACK] Seq=500 Ack=3055 Win=62464 Len=0
754	465.725232	192.168.114.1	192.168.114.1	TCP	44 8879 + 58949 [ACK] Seq=3055 Ack=501 Win=65024 Len=0
755	465.727814	192.168.114.1	192.168.114.1	TCP	44 8879 + 58949 [FIN, ACK] Seq=3055 Ack=501 Win=65024 Len=0
756	465.727882	192.168.114.1	192.168.114.1	TCP	44 58949 + 8879 [ACK] Seq=501 Ack=3056 Win=62464 Len=0
757	467.999827	127.0.0.1	127.0.0.1	TCP	45 [TCP Keep-Alive] 61702 + 61697 [ACK] Seq=0 Ack=2 Win=132 Len=1
758	467.999869	127.0.0.1	127.0.0.1	TCP	56 [TCP Keep-Alive ACK] 61697 + 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
759	478.501159	192.168.114.1	192.168.114.1	HTTP/1..	521 POST /vigenere/send HTTP/1.1 , JSON (application/json)
760	478.501206	192.168.114.1	192.168.114.1	TCP	44 8879 + 61629 [ACK] Seq=1 Ack=478 Win=65024 Len=0
761	478.503178	192.168.114.1	192.168.114.1	TCP	209 8879 + 61629 [PSH, ACK] Seq=1 Ack=478 Win=65024 Len=165 [TCP PDU reassembled in 763]
762	478.503236	192.168.114.1	192.168.114.1	TCP	44 61629 + 8879 [ACK] Seq=166 Win=65280 Len=0
763	478.503280	192.168.114.1	192.168.114.1	HTTP/1..	117 HTTP/1.1 200 OK , JSON (application/json)
764	478.503302	192.168.114.1	192.168.114.1	TCP	44 61629 + 8879 [ACK] Seq=478 Win=65024 Len=0
765	478.504010	192.168.114.1	192.168.114.1	TCP	44 61629 + 8879 [FIN, ACK] Seq=478 Ack=239 Win=65024 Len=0
766	478.504044	192.168.114.1	192.168.114.1	TCP	44 8879 + 61629 [ACK] Seq=239 Ack=479 Win=65024 Len=0
767	478.506830	192.168.114.1	192.168.114.1	TCP	44 8879 + 61629 [FIN, ACK] Seq=239 Ack=479 Win=65024 Len=0
768	478.506897	192.168.114.1	192.168.114.1	TCP	44 61629 + 8879 [ACK] Seq=479 Ack=240 Win=65280 Len=0
769	483.561774	127.0.0.1	127.0.0.1	TCP	45 49684 + 49685 [PSH, ACK] Seq=29 Ack=1 Win=255 Len=1
770	483.561834	127.0.0.1	127.0.0.1	TCP	44 49685 + 49684 [ACK] Seq=1 Ack=30 Win=386 Len=0
Frame 759: Packet, 521 bytes on wire (4168 bits), 521 bytes captured (4168 bits) on interface 'Device\NPF_Loopback' at 0:0.000 20 78 36 34 29 20 41 70 70 6c 65 57 65 62 6b 69 >x64) Ap pleWebKit					
Null/Loopback					
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1					
Transmission Control Protocol, Src Port: 61629, Dst Port: 8879, Seq: 1, Ack: 1, Len: 477					
Hypertext Transfer Protocol					
JavaScript Object Notation: application/json					
Object					
Member: text					
[Path with value: /text:Deneme yapıyorum]					
Member: value					
[Member with value: Deneme yapıyorum]					
String value: Deneme yapıyorum					
Key: text					
[Path: /text]					
Member: key					
[Path with value: /key:key]					
[Member with value: key:key]					
String value: key					
Key: key					
[Path: /key]					
JSON string value (json.value.string), 18 byte(s)					
					Paketler: 814
					Profil: Default
Frame 759: Packet, 521 bytes on wire (4168 bits), 521 bytes captured (4168 bits) on interface 'Device\NPF_Loopback' at 0:0.000 20 78 36 34 29 20 41 70 70 6c 65 57 65 62 6b 69 >x64) Ap pleWebKit					
Null/Loopback					
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1					
Transmission Control Protocol, Src Port: 8879, Dst Port: 61629, Seq: 166, Ack: 478, Len: 73					
[2 Reassembled TCP Segments (238 bytes): #761(165), #763(73)]					
Hypertext Transfer Protocol					
JavaScript Object Notation: application/json					
Object					
Member: decrypted					
[Path with value: /decrypted:DENEME YAPIYORUM]					
[Member with value: decrypted:DENEME YAPIYORUM]					
String value: DENEME YAPIYORUM					
Key: decrypted					
[Path: /decrypted]					
Member: encrypted					
[Path with value: /encrypted:NILOQC*CYZ%WVSW]					
[Member with value: encrypted:NILOQC*CYZ%WVSW]					
String value: NILOQC*CYZ%WVSW					
Key: encrypted					
[Path: /encrypted]					
JSON string value (json.value.string), 18 byte(s)					
					Paketler: 836
					Profil: Default
Frame 759: Packet, 521 bytes on wire (4168 bits), 521 bytes captured (4168 bits) on interface 'Device\NPF_Loopback' at 0:0.000 48 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HTTP/1.1 200 OK					
Null/Loopback					
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1					
Transmission Control Protocol, Src Port: 8879, Dst Port: 61629, Seq: 166, Ack: 478, Len: 73					
[2 Reassembled TCP Segments (238 bytes): #761(165), #763(73)]					
Hypertext Transfer Protocol					
JavaScript Object Notation: application/json					
Object					
Member: decrypted					
[Path with value: /decrypted:DENEME YAPIYORUM]					
[Member with value: decrypted:DENEME YAPIYORUM]					
String value: DENEME YAPIYORUM					
Key: decrypted					
[Path: /decrypted]					
Member: encrypted					
[Path with value: /encrypted:NILOQC*CYZ%WVSW]					
[Member with value: encrypted:NILOQC*CYZ%WVSW]					
String value: NILOQC*CYZ%WVSW					
Key: encrypted					
[Path: /encrypted]					
JSON string value (json.value.string), 18 byte(s)					
					Paketler: 836
					Profil: Default
Frame 759: Packet, 521 bytes on wire (4168 bits), 521 bytes captured (4168 bits) on interface 'Device\NPF_Loopback' at 0:0.000 0a 53 72 76 65 72 3a 20 57 65 72 6b 7a 65 75 .Server: Werkzeug					
Null/Loopback					
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1					
Transmission Control Protocol, Src Port: 8879, Dst Port: 61629, Seq: 166, Ack: 478, Len: 73					
[2 Reassembled TCP Segments (238 bytes): #761(165), #763(73)]					
Hypertext Transfer Protocol					
JavaScript Object Notation: application/json					
Object					
Member: decrypted					
[Path with value: /decrypted:DENEME YAPIYORUM]					
[Member with value: decrypted:DENEME YAPIYORUM]					
String value: DENEME YAPIYORUM					
Key: decrypted					
[Path: /decrypted]					
Member: encrypted					
[Path with value: /encrypted:NILOQC*CYZ%WVSW]					
[Member with value: encrypted:NILOQC*CYZ%WVSW]					
String value: NILOQC*CYZ%WVSW					
Key: encrypted					
[Path: /encrypted]					
JSON string value (json.value.string), 18 byte(s)					
					Paketler: 836
					Profil: Default
Frame 759: Packet, 521 bytes on wire (4168 bits), 521 bytes captured (4168 bits) on interface 'Device\NPF_Loopback' at 0:0.000 43 6e 6d 63 74 69 6f 6a 3a 20 63 6c 6f 73 .Connection: clos					
Null/Loopback					
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1					
Transmission Control Protocol, Src Port: 8879, Dst Port: 61629, Seq: 166, Ack: 478, Len: 73					
[2 Reassembled TCP Segments (238 bytes): #761(165), #763(73)]					
Hypertext Transfer Protocol					
JavaScript Object Notation: application/json					
Object					
Member: decrypted					
[Path with value: /decrypted:DENEME YAPIYORUM]					
[Member with value: decrypted:DENEME YAPIYORUM]					
String value: DENEME YAPIYORUM					
Key: decrypted					
[Path: /decrypted]					
Member: encrypted					
[Path with value: /encrypted:NILOQC*CYZ%WVSW]					
[Member with value: encrypted:NILOQC*CYZ%WVSW]					
String value: NILOQC*CYZ%WVSW					
Key: encrypted					
[Path: /encrypted]					
JSON string value (json.value.string), 18 byte(s)					

Rail Fence Şifreleme

Mesaj:

Bu bir deneme mesajidir

Ray Sayısı (Key):

4

Gönder

Sonuçlar:

B*ejurd*m*ai*iemmsdrbnei

Bu bir deneme mesajidir

[← Ana Menü](#)

No.	Time	Source	Destination	Protocol	Length Info	
1180	622.651385	192.168.114.1	192.168.114.1	TCP	56 54746 → 8879 [SYN] Seq=0 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM	
1181	622.651499	192.168.114.1	192.168.114.1	TCP	56 8879 → 54746 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM	
1182	622.651538	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0	
1183	622.652084	192.168.114.1	192.168.114.1	HTTP	544 GET /raifencfe HTTP/1.1	
1184	622.652090	192.168.114.1	192.168.114.1	TCP	44 8879 → 60060 [ACK] Seq=1 Ack=501 Win=65024 Len=0	
1185	622.656813	192.168.114.1	192.168.114.1	TCP	219 8879 → 60060 [PSH, ACK] Seq=1 Ack=501 Win=65024 Len=175 [TCP PDU reassembled in 1187]	
1186	622.658678	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [ACK] Seq=501 Ack=176 Win=65280 Len=0	
1187	622.658735	192.168.114.1	192.168.114.1	HTTP	2872 HTTP/1.1 200 OK (text/html)	
1188	622.658771	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [ACK] Seq=501 Ack=2959 Win=62464 Len=0	
1189	622.659661	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [FIN, ACK] Seq=501 Ack=2959 Win=62464 Len=0	
1190	622.659699	192.168.114.1	192.168.114.1	TCP	44 8879 → 60060 [ACK] Seq=2959 Ack=502 Win=65024 Len=0	
1191	622.662082	192.168.114.1	192.168.114.1	TCP	44 8879 → 60060 [FIN, ACK] Seq=2959 Ack=502 Win=65024 Len=0	
1192	622.662144	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [ACK] Seq=502 Ack=2960 Win=62464 Len=0	
+→	1193	640.544495	192.168.114.1	192.168.114.1	HTTP/1.1	526 POST /raifencfe/send HTTP/1.1, JSON (application/json)
1194	640.544725	192.168.114.1	192.168.114.1	TCP	44 8879 → 54746 [ACK] Seq=1 Ack=483 Win=65024 Len=0	
1195	640.547389	192.168.114.1	192.168.114.1	TCP	209 8879 → 54746 [PSH, ACK] Seq=1 Ack=483 Win=65024 Len=165 [TCP PDU reassembled in 1197]	
1196	640.547442	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [ACK] Seq=483 Ack=166 Win=65280 Len=0	
1197	640.547483	192.168.114.1	192.168.114.1	HTTP/1.1	131 HTTP/1.1 200 OK, JSON (application/json)	
1198	640.547505	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [ACK] Seq=483 Ack=253 Win=65280 Len=0	
1199	640.548389	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [FIN, ACK] Seq=483 Ack=253 Win=65280 Len=0	
↓ Frame 1193: Packet, 526 bytes on wire (4208 bits), 526 bytes captured (4208 bits) on interface \Device\NPF_Loopback 00:00 3b 20 78 36 34 29 20 41 70 70 6c 65 57 65 62 4b ; x64 A ppleWebK						
Null/Loopback						
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1						
Transmission Control Protocol, Src Port: 54746, Dst Port: 8879, Seq: 1, Ack: 1, Len: 482						
HyperText Transfer Protocol						
JavaScript Object Notation: application/json						
↳ Object						
↳ Member: text						
[Path with value: /text:Bu bir deneme mesajidir]						
[Member with value: text:Bu bir deneme mesajidir]						
String value: Bu bir deneme mesajidir						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
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[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
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[Path with value: /key:4]						
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↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						
[Path: /key]						
Key: text						
[Path: /text]						
↳ Member: key						
[Path with value: /key:4]						
[Member with value: key:4]						
Number value: 4						
Key: key						

No.	Time	Source	Destination	Protocol	Length Info
1180	622.651385	192.168.114.1	192.168.114.1	TCP	56 54746 → 8879 [SYN] Seq=0 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
1181	622.651499	192.168.114.1	192.168.114.1	TCP	56 88746 → 54746 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
1182	622.651538	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [ACK] Seq=1 Ack=1 Win=65288 Len=0
1183	622.652044	192.168.114.1	192.168.114.1	HTTP	544 GET /raillfence HTTP/1.1
1184	622.652090	192.168.114.1	192.168.114.1	TCP	44 8879 → 60060 [ACK] Seq=1 Ack=501 Win=65024 Len=0
1185	622.658613	192.168.114.1	192.168.114.1	TCP	219 8879 → 60060 [PSH, ACK] Seq=1 Ack=501 Win=65024 Len=175 [TCP PDU reassembled in 1187]
1186	622.658678	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [ACK] Seq=501 Ack=176 Win=65288 Len=0
1187	622.658735	192.168.114.1	192.168.114.1	HTTP	2827 HTTP/1.1 200 OK (text/html)
1188	622.658771	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [ACK] Seq=501 Ack=2959 Win=62464 Len=0
1189	622.659561	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [FIN, ACK] Seq=501 Ack=2959 Win=62464 Len=0
1190	622.659699	192.168.114.1	192.168.114.1	TCP	44 8879 → 60060 [ACK] Seq=2959 Ack=502 Win=65024 Len=0
1191	622.662081	192.168.114.1	192.168.114.1	TCP	44 8879 → 60060 [FIN, ACK] Seq=2959 Ack=502 Win=65024 Len=0
1192	622.662144	192.168.114.1	192.168.114.1	TCP	44 60060 → 8879 [ACK] Seq=502 Ack=2968 Win=62464 Len=0
1193	640.544695	192.168.114.1	192.168.114.1	HTTP/1.1	526 POST /raillfence/send HTTP/1.1, JSON (application/json)
1194	640.544725	192.168.114.1	192.168.114.1	TCP	44 8879 → 54746 [ACK] Seq=1 Ack=483 Win=65024 Len=0
1195	640.547389	192.168.114.1	192.168.114.1	TCP	208 8879 → 54746 [PSH, ACK] Seq=1 Ack=483 Win=65024 Len=165 [TCP PDU reassembled in 1197]
1196	640.547442	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [ACK] Seq=483 Ack=166 Win=65288 Len=0
1197	640.547483	192.168.114.1	192.168.114.1	HTTP/1.1	131 HTTP/1.1 200 OK, JSON (application/json)
1198	640.547505	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [ACK] Seq=483 Ack=253 Win=65288 Len=0
1199	640.548349	192.168.114.1	192.168.114.1	TCP	44 54746 → 8879 [FIN, ACK] Seq=483 Ack=253 Win=65288 Len=0

```

0080 48 54 54 50 2f 31 2e 31 28 32 30 30 20 4f 4b 0d HTTP/1.1 200 OK
0081 0a 53 65 72 76 65 73 2a 20 37 65 73 6b 7a 65 75 Server: Werkzeu
0082 67 2f 32 3e 26 2e 33 20 59 79 74 68 6f 69 5f 33 g3.2.1 Python/3
0083 2e 31 33 2a 31 2d 0a 44 51 74 65 2a 26 53 25 66 12.2.1.0 werkzeug
0084 2c 20 30 37 20 44 65 63 20 32 38 32 35 20 30 36 , 07 Dec 2025 06
0085 3a 32 34 3a 33 37 20 47 4d 54 0d 0a 43 6f 6e 74 -24-37 G MT-Cont
0086 65 6e 74 2d 54 79 70 65 3a 20 61 70 78 6c 69 63 ent-Type : applic
0087 61 74 69 6f 6e 2f 6a 73 6f 60 0d 0a 43 6f 6e 74 ation/ja on Cont
0088 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 38 37 0d 0a ent-Leng th: 87-
0089 43 6f 6e 66 65 63 74 69 6f 6e 3a 20 63 6c 6f 73 Connecti on: clos
008a 65 0d 0a 0d 0a 70 6a 20 20 22 64 65 63 72 79 70 e...{, "decryp
008b 75 65 64 22 3a 20 22 42 75 2a 62 69 72 20 64 65 ted": "B u bir de
008c 6e 65 6d 65 20 6d 65 73 61 6a 69 64 69 72 22 2c neme mes ajidir",
008d 0a 20 22 65 6e 63 72 79 70 74 65 64 22 3a 20 , "encr ypted":
008e 22 42 2a 65 6a 75 72 64 64 2a 61 69 2a 69 65 65 "B*ejurd m*a!iee
008f 6d 73 64 72 62 6e 65 69 2a 7d 0a msdrbnei "}.

```

5. Substitution Şifreleme:

Substitution Cipher

Mesaj:

Bu bir deneme mesajidir.

Anahtar (26 Harflik Alfabe):

qwertyuopasdflghkjlkizxcvbnm

Gönder

Sonuçlar:

WX*WPL*RTGTF*TFTIQAPRPL
BU BIR DENEME MESAJIDIR
[← Ana Menü](#)

No.	Time	Source	Destination	Protocol	Length Info
1378	793.937060	192.168.65.1	239.255.255.250	SSDP	202 M-SEARCH * HTTP/1.1
1379	793.937170	192.168.114.1	239.255.255.250	SSDP	202 M-SEARCH * HTTP/1.1
1380	793.937173	192.168.195.108	239.255.255.250	SSDP	202 M-SEARCH * HTTP/1.1
1381	794.945249	192.168.65.1	239.255.255.250	SSDP	202 M-SEARCH * HTTP/1.1
1382	794.945407	192.168.114.1	239.255.255.250	SSDP	202 M-SEARCH * HTTP/1.1
1383	794.945580	192.168.195.108	239.255.255.250	SSDP	202 M-SEARCH * HTTP/1.1
1384	797.962989	127.0.0.1	127.0.0.1	TCP	45 [TCP Keep-Alive] 61697 → 61702 [ACK] Seq=1 Ack=1 Win=237 Len=1
1385	797.963048	127.0.0.1	127.0.0.1	TCP	56 [TCP Keep-Alive ACK] 61702 → 61697 [ACK] Seq=1 Ack=2 Win=132 Len=0 SLE=1 SRE=2
1386	812.026787	192.168.114.1	192.168.114.1	HTTP/1.1	559 POST /substitution/send HTTP/1.1 , JSON (application/json)
1387	812.026832	192.168.114.1	192.168.114.1	TCP	44 8879 → 58552 [ACK] Seq=1 Ack=516 Win=64768 Len=0
1388	812.028699	192.168.114.1	192.168.114.1	TCP	209 8879 → 58552 [PSH, ACK] Seq=16 Win=64768 Len=165 [TCP PDU reassembled in 1390]
1389	812.028748	192.168.114.1	192.168.114.1	TCP	49 58552 → 8879 [ACK] Seq=516 Ack=166 Win=65288 Len=0
1390	812.028799	192.168.114.1	192.168.114.1	HTTP/1.1	131 HTTP/1.1 200 OK , JSON (application/json)
1391	812.028817	192.168.114.1	192.168.114.1	TCP	44 58552 → 8879 [ACK] Seq=516 Ack=253 Win=65288 Len=0
1392	812.028822	192.168.114.1	192.168.114.1	TCP	44 58552 → 8879 [ACK] Seq=516 Ack=253 Win=65288 Len=0
1393	812.029406	192.168.114.1	192.168.114.1	TCP	44 8879 → 58552 [ACK] Seq=253 Ack=517 Win=64768 Len=0
1394	812.031895	192.168.114.1	192.168.114.1	TCP	44 8879 → 58552 [FIN, ACK] Seq=253 Ack=517 Win=64768 Len=0
1395	812.031988	192.168.114.1	192.168.114.1	TCP	44 58552 → 8879 [ACK] Seq=517 Ack=254 Win=65288 Len=0
1396	818.381034	127.0.0.1	127.0.0.1	TCP	45 49684 → 49685 [PSH, ACK] Seq=60 Ack=1 Win=255 Len=1
1397	818.381094	127.0.0.1	127.0.0.1	TCP	44 49685 → 49684 [ACK] Seq=1 Ack=61 Win=386 Len=0
Frame 1386: Packet, 559 bytes on wire (4472 bits), 559 bytes captured (4472 bits) on interface \Device\NPF_Loopback					
Null/Loopback					
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1					
Transmission Control Protocol, Src Port: 8879, Dst Port: 8879, Seq: 1, Ack: 1, Len: 515					
HyperText Transfer Protocol					
JavaScript Object Notation: application/json					
+ Object					
+ Member: text					
[Path with value: /textBu bir deneme mesajidir]					
[Member with value: textBu bir deneme mesajidir]					
String value: Bu bir deneme mesajidir					
Key: text					
+ Path: /text					
+ Member: key					
[Path with value: /key:qwertuopasdflghjklixvcvbm]					
[Member with value: key:qwertuopasdflghjklixvcvbm]					
String value: qwertuopasdflghjklixvcvbm					
Key: key					
+ Path: /key					
+ Member: text					
[Path with value: /textBu bir deneme mesajidir]					
[Member with value: textBu bir deneme mesajidir]					
String value: Bu bir deneme mesajidir					
Key: text					
+ Path: /text					
+ Member: key					
[Path with value: /key:qwertuopasdflghjklixvcvbm]					
[Member with value: key:qwertuopasdflghjklixvcvbm]					
String value: qwertuopasdflghjklixvcvbm					
+ Member: key					
[Path with value: /key:trqzq9]					
[Member with value: key:trqzq9]					
String value: trqzq9					
+ Member: key					
[Path with value: /key:trqzq9]					
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String value: trqzq9					
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[Path with value: /key:trqzq9]					
[Member with value: key:trqzq9]					
String value: trqzq9					
+ Member: key					
[Path with value: /key:trqzq9]					
[Member with value: key:trqzq9]					

Hill Cipher

Mesaj:

Matris Anahtarı (örn: 3,3,2,5):

Gönder

Sifrelenmiş Metin:

ETKILQLH

Çözülmüş Metin:

TRAMVAYX

[← Ana Menü](#)

No.	Time	Source	Destination	Protocol	Length Info
1985	1122.600862	127.0.0.1	127.0.0.1	TCP	56 [TCP Keep-Alive ACK] 61701 → 61698 [ACK] Seq=2 Ack=1 Win=255 Len=0 SLE=0 SRE=1
1986	1136.511829	192.168.114.1	192.168.114.1	TCP	56 65185 → 8879 [SYN] Seq=0 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
1987	1136.511919	192.168.114.1	192.168.114.1	TCP	56 8879 → 65185 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
1988	1136.511958	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
1989	1136.512218	192.168.114.1	192.168.114.1	HTTP/1.1	511 POST /hill/send HTTP/1.1 , JSON (application/json)
1990	1136.512244	192.168.114.1	192.168.114.1	TCP	44 8879 → 65185 [ACK] Seq=1 Ack=68 Win=65024 Len=0
1991	1136.515094	192.168.114.1	192.168.114.1	TCP	209 8879 → 65185 [PSH, ACK] Seq=1 Ack=68 Win=65280 Len=165 [TCP PDU reassembled in 1993]
1992	1136.515892	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=468 Ack=166 Win=65280 Len=0
1993	1136.515745	192.168.114.1	192.168.114.1	HTTP/1.1	101 HTTP/1.1 200 OK , JSON (application/json)
1994	1136.515782	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=468 Ack=223 Win=65280 Len=0
1995	1136.516372	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [FIN, ACK] Seq=468 Ack=223 Win=65280 Len=0
1996	1136.516407	192.168.114.1	192.168.114.1	TCP	44 8879 → 65185 [ACK] Seq=223 Ack=469 Win=65024 Len=0
1997	1136.518724	192.168.114.1	192.168.114.1	TCP	44 8879 → 65185 [FIN, ACK] Seq=223 Ack=469 Win=65024 Len=0
1998	1136.518802	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=469 Ack=224 Win=65280 Len=0
1999	1137.740817	127.0.0.1	127.0.0.1	TCP	45 [TCP Keep-Alive] 61701 → 61698 [ACK] Seq=1 Ack=1 Win=255 Len=1
2000	1137.740860	127.0.0.1	127.0.0.1	TCP	56 [TCP Keep-Alive ACK] 61698 → 61701 [ACK] Seq=1 Ack=2 Win=251 Len=0 SLE=1 SRE=2
2001	1142.971133	127.0.0.1	127.0.0.1	TCP	45 49684 → 49684 [PSH, ACK] Seq=72 Ack=1 Win=255 Len=1
2002	1142.971198	127.0.0.1	127.0.0.1	TCP	44 49685 → 49684 [ACK] Seq=1 Ack=73 Win=386 Len=0
2003	1142.972897	127.0.0.1	127.0.0.1	TCP	45 49689 → 49688 [PSH, ACK] Seq=72 Ack=1 Win=255 Len=1
2004	1142.972930	127.0.0.1	127.0.0.1	TCP	44 49688 → 49689 [ACK] Seq=1 Ack=73 Win=185 Len=0

No.	Time	Source	Destination	Protocol	Length Info
1985	1122.600862	127.0.0.1	127.0.0.1	TCP	56 [TCP Keep-Alive ACK] 61701 → 61698 [ACK] Seq=2 Ack=1 Win=255 Len=0 SLE=0 SRE=1
1986	1136.511829	192.168.114.1	192.168.114.1	TCP	56 65185 → 8879 [SYN] Seq=0 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
1987	1136.511919	192.168.114.1	192.168.114.1	TCP	56 8879 → 65185 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
1988	1136.511958	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
1989	1136.512218	192.168.114.1	192.168.114.1	HTTP/1.1	511 POST /hill/send HTTP/1.1 , JSON (application/json)
1990	1136.512244	192.168.114.1	192.168.114.1	TCP	44 8879 → 65185 [ACK] Seq=1 Ack=68 Win=65024 Len=0
1991	1136.515094	192.168.114.1	192.168.114.1	TCP	209 8879 → 65185 [PSH, ACK] Seq=1 Ack=68 Win=65280 Len=165 [TCP PDU reassembled in 1993]
1992	1136.515892	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=468 Ack=166 Win=65280 Len=0
1993	1136.515745	192.168.114.1	192.168.114.1	HTTP/1.1	101 HTTP/1.1 200 OK , JSON (application/json)
1994	1136.515782	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=468 Ack=223 Win=65280 Len=0
1995	1136.516372	192.168.114.1	192.168.114.1	TCP	44 8879 → 65185 [FIN, ACK] Seq=223 Ack=469 Win=65024 Len=0
1996	1136.516407	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=223 Ack=469 Win=65280 Len=0
1997	1136.518724	192.168.114.1	192.168.114.1	TCP	44 8879 → 65185 [FIN, ACK] Seq=223 Ack=469 Win=65024 Len=0
1998	1136.518802	192.168.114.1	192.168.114.1	TCP	44 65185 → 8879 [ACK] Seq=469 Ack=224 Win=65280 Len=0
1999	1137.740817	127.0.0.1	127.0.0.1	TCP	45 [TCP Keep-Alive] 61701 → 61698 [ACK] Seq=1 Ack=1 Win=255 Len=1
2000	1137.740860	127.0.0.1	127.0.0.1	TCP	56 [TCP Keep-Alive ACK] 61698 → 61701 [ACK] Seq=1 Ack=2 Win=251 Len=0 SLE=1 SRE=2
2001	1142.971133	127.0.0.1	127.0.0.1	TCP	45 49684 → 49684 [PSH, ACK] Seq=72 Ack=1 Win=255 Len=1
2002	1142.971198	127.0.0.1	127.0.0.1	TCP	44 49685 → 49684 [ACK] Seq=1 Ack=73 Win=386 Len=0
2003	1142.972897	127.0.0.1	127.0.0.1	TCP	45 49689 → 49688 [PSH, ACK] Seq=72 Ack=1 Win=255 Len=1
2004	1142.972930	127.0.0.1	127.0.0.1	TCP	44 49688 → 49689 [ACK] Seq=1 Ack=73 Win=185 Len=0

7. Polybius Şifreleme:

Polybius Cipher

Mesaj:

Bu bir deneme mesajıdır

Gönder

Şifrelenmiş Metin:

1245*122442*141533153215*321543112424142442

Çözülmüş Metin:

BU BJR DENEME MESAJIJDJR

[← Ana Menü](#)

```
No. Time Source Destination Protocol Length Info
 2351 1224.680542 192.168.114.1 192.168.114.1 TCP 44 59967 → 8879 [FIN, ACK] Seq=500 Ack=3262 Win=62208 Len=0
 2352 1224.680562 192.168.114.1 192.168.114.1 TCP 44 8879 → 59967 [ACK] Seq=3262 Ack=501 Win=65024 Len=0
 2353 1224.680582 192.168.114.1 192.168.114.1 TCP 44 8879 → 59967 [FIN, ACK] Seq=3262 Ack=501 Win=65024 Len=0
 2354 1224.683077 192.168.114.1 192.168.114.1 TCP 44 59967 → 8879 [ACK] Seq=500 Ack=251 Win=62208 Len=0
 2355 1224.72750918 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61701 → 61698 [ACK] Seq=1 Ack=1 Win=255 Len=1
 2356 1224.751111 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive] 61698 → 61701 [ACK] Seq=1 Ack=2 Win=251 Len=0 SLE=1 SRE=2
 2357 1224.12040492 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61703 → 61697 [ACK] Seq=1 Ack=1 Win=132 Len=0
 2358 1223.12058232 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive] 61697 → 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
 2359 1224.495163 192.168.114.1 HTTP/1.1 516 POST /polybius/and HTTP/1.1 JSON {"application/json"}
 2360 1224.495208 192.168.114.1 192.168.114.1 TCP 44 8879 → 58089 [ACK] Seq=1 Ack=473 Win=65024 Len=0
 2361 1224.497099 192.168.114.1 192.168.114.1 TCP 210 8879 → 58089 [PSH, ACK] Seq=1 Ack=473 Win=65024 Len=166 [TCP PDU reassembled in 2363]
 2362 1224.497157 192.168.114.1 192.168.114.1 TCP 44 58089 → 8879 [ACK] Seq=473 Ack=157 Win=65280 Len=0
 2363 1224.497215 192.168.114.1 192.168.114.1 HTTP/1.1 151 HTTP/1.1 200 OK JSON {"application/json"}
 2364 1224.497241 192.168.114.1 192.168.114.1 TCP 44 58089 → 8879 [ACK] Seq=473 Ack=274 Win=65024 Len=0
 2365 1224.498077 192.168.114.1 192.168.114.1 TCP 44 58089 → 8879 [FIN, ACK] Seq=274 Ack=274 Win=65024 Len=0
 2366 1224.498111 192.168.114.1 192.168.114.1 TCP 44 8879 → 58089 [ACK] Seq=274 Ack=474 Win=65024 Len=0
 2367 1224.500399 192.168.114.1 192.168.114.1 TCP 44 8879 → 58089 [FIN, ACK] Seq=274 Ack=474 Win=65024 Len=0
 2368 1224.508468 192.168.114.1 192.168.114.1 TCP 44 58089 → 8879 [ACK] Seq=474 Ack=275 Win=65024 Len=0
 2369 1242.626672 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61698 → 61701 [ACK] Seq=0 Ack=2 Win=251 Len=1
 2370 1242.626724 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61701 → 61698 [ACK] Seq=2 Ack=1 Win=255 Len=0 SLE=0 SRE=1

Frame 2359: Packet, 516 bytes on wire (4128 bits), 516 bytes captured (4128 bits) on interface '\Device\NPF_Loopback
Null\Loopback'
Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1
Transmission Control Protocol, Src Port: 58089, Dst Port: 8879, Seq: 1, Ack: 1, Len: 472
HyperText Transfer Protocol
JavaScript Object Notation: application/json
  Object
    + Member: text
      [Path with value: /textBu bir deneme mesajidir]
      [WithValue with value: textBu bir deneme mesajidir]
      String Value: Bu bir deneme mesajidir
  Key: text
  [Path: /text]

No. Time Source Destination Protocol Length Info
 0000 0 78 36 34 29 20 41 78 70 65 65 57 65 62 4b 69 x64) Ap plieWebKi
 0001 0 74 35 33 37 20 41 78 70 65 65 57 65 62 4b 69 t/573_36 (KHTML,
 0002 0 20 6c 69 66 65 20 47 65 63 6b 6f 29 20 43 68 72 like Ge ck) Chr
 0003 0 6f 6d 65 2f 31 34 32 3e 30 2e 30 2e 30 53 61 ome/142, 0.0 Sa
 0004 0 01 66 61 72 60 25 35 37 33 2e 33 36 0d 0a 43 6f 6e far/537_36 Con
 0005 0 74 65 66 74 62 54 79 70 65 3a 60 71 70 6c 69 tent-Typ e: appli
 0006 0 61 64 74 66 6f 6e 2f 6a 73 6f 6e 0d 0a 41 63 63 cation/1 son Acc
 0007 0 65 78 74 3a 28 2f 2a 2f 0d 0a 4f 72 69 67 69 68 : http://192.168
 0008 0 31 31 34 29 31 38 38 37 39 0d 0e 52 65 68 .1.1.1:879 -Ref
 0009 0 65 72 65 72 3a 20 68 74 70 3a 2f 21 31 39 32 2e eror: ht tp://192
 0010 0 7e 31 36 38 29 31 31 34 2e 31 38 38 37 39 2f .168.114 .1:8879-
 0011 0 60 66 69 62 67 69 73 0d 0a 41 63 65 69 70 74 polybius - Accept
 0012 0 2d 45 66 66 65 61 65 60 64 61 63 65 69 70 74 Encoding: gzip;
 0013 0 2d 45 66 66 65 61 65 60 64 61 63 65 69 70 74 Content-Type: application/x-tar
 0014 0 3d 4c 61 64 75 67 65 61 65 64 63 65 69 70 74 Lanaguage: en-US, TR
 0015 0 2c 74 72 73 61 71 3d 30 2e 30 2c 65 6e 2d 55 53 3b ,trq0.0, 9-en.US
 0016 0 71 3d 30 2e 38 2c 65 6e 36 76 71 3d 30 2e 37 0d 0e 0.0.8_en;q=0.7.
 0017 0 0d 9a 7b 22 74 65 78 74 22 3a 22 42 75 20 62 69
 0018 0 72 20 64 65 6e 65 6d 65 20 6d 65 73 61 6a 69 64 ("text": "Bu bir
 0019 0 69 72 22 7d deneme mesajidir")
 0020 0
```

8. Columnar Transposition:

Columnar Transposition

Mesaj:

Anahtar (Kelime):

Gönder

Şifrelenmiş Metin:

Çözülmüş Metin:

[← Ana Menü](#)

```

No. Time Source Destination Protocol Length Info
1 2549 1398.0.25513 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61697 → 61702 [ACK] Seq=1 Ack=237 Len=1
2 2550 1398.0.25556 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61702 → 61697 [ACK] Seq=1 Ack=2 Win=132 Len=0 SLE=1 SRE=2
3 2551 1398.0.64570 192.168.114.1 192.168.114.1 ICMP 128 Destination unreachable (Host unreachable)
4 2552 1400.345239 192.168.114.1 192.168.114.1 HTTP/1.1... 532 POST /columnar/send HTTP/1.1 , JSON (application/json)
5 2553 1400.345294 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [ACK] Seq=1 Ack=489 Win=65024 Len=0
6 2554 1400.347897 192.168.114.1 192.168.114.1 TCP 209 8879 → 52873 [PSH, ACK] Seq=1 Ack=489 Win=65024 Len=165 [TCP PDU reassembled in 2556]
7 2555 1400.347961 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=489 Ack=168 Win=65280 Len=0
8 2556 1400.348010 192.168.114.1 192.168.114.1 HTTP/1.1... 133 HTTP/1.1 200 OK , JSON (application/json)
9 2557 1400.348093 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=489 Ack=255 Win=65280 Len=0
10 2558 1400.348861 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [FIN, ACK] Seq=489 Ack=255 Win=65280 Len=0
11 2559 1400.348894 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [ACK] Seq=255 Ack=489 Win=65024 Len=0
12 2560 1400.349351 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [FIN, ACK] Seq=255 Ack=489 Win=65024 Len=0
13 2561 1400.349267 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=490 Ack=255 Win=65280 Len=0
14 2562 1407.778875 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61701 → 61698 [ACK] Seq=1 Ack=255 Len=1
15 2563 1407.778973 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61698 → 61701 [ACK] Seq=0 Ack=2 Win=251 Len=0 SLE=1 SRE=2
16 2564 1413.148351 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61702 → 61697 [ACK] Seq=0 Ack=2 Win=132 Len=1
17 2565 1413.148394 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61697 → 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
18 2566 1413.719093 127.0.0.1 127.0.0.1 TCP 45 49684 → 49685 [PSH, ACK] Seq=95 Ack=1 Win=255 Len=1
19 2567 1417.910963 127.0.0.1 127.0.0.1 TCP 44 49685 → 49684 [ACK] Seq=1 Ack=96 Win=386 Len=0
20 2568 1417.911359 127.0.0.1 127.0.0.1 TCP 45 49689 → 49688 [PSH, ACK] Seq=95 Ack=1 Win=255 Len=1

Frame 2552: Packet, 532 bytes on wire (4256 bits), 532 bytes captured (4256 bits) on interface \Device\NPF_Loopback
0: 00 74 2f 35 37 27 28 33 36 28 28 4b 48 54 4d 4c 2c t/537.36 (KHTML,
1: 00 69 6b 65 40 47 65 63 6b 6f 29 29 43 68 72 like.html) Chr
2: 00 6f 6d 65 2f 31 34 32 30 38 30 32 30 20 53 61 ome/12. 8.0.0 Sa
3: 01 66 61 72 69 2f 35 33 37 2e 33 36 0d 04 43 6f 6e far/537.36 Con
4: 01 10 74 65 6e 74 2d 54 79 70 65 3a 20 61 70 6c 69 tent-Typ e: appli
5: 01 20 63 61 74 69 6f 6e 2f 6a 73 6f 6e 0d 0a 41 63 63 cation/j son Acc
6: 01 30 65 70 74 3a 20 2a 2f 2a 0d 0a 4f 72 69 67 69 6e ept: /* -Origin
7: 01 40 3a 20 68 74 74 2f 31 39 32 32 31 38 38 : http://192.168
8: 01 50 2e 31 33 34 2e 31 3a 38 37 39 0d 0a 52 66 .114.18 879 -Ref
9: 01 60 65 72 65 72 28 68 74 74 70 3a 2f 31 39 32 erer: ht tp://192
10: 01 70 2e 31 36 38 2e 31 31 34 2e 31 38 38 37 39 2f 168.114.1:8879/
11: 01 80 63 67 65 63 6f 64 69 63 6f 65 63 65 70 74 columnar -Accept
12: 01 90 3a 20 65 63 6f 64 69 63 6f 65 63 65 70 74 -Encodin g: gzip
13: 01 a0 2d 4c 61 66 75 61 67 65 3a 20 74 72 2d 54 52 -Language: en-tr-IR
14: 01 b0 2d 74 72 3b 71 3d 30 2e 39 2c 65 6e 2d 55 53 3b ,trq;q: 9. en-US;
15: 01 c0 71 3d 30 2e 38 65 6b 71 3d 30 2e 37 0d 0a q=0.8, en-gp@0.7 -
16: 01 d0 0d 0a 7b 22 74 65 78 74 22 3a 22 55 7a 75 6d 55 ..("text": "Uzum
17: 01 e0 7a 75 6d 65 42 61 6b 61 42 61 6b 61 4b 61 72 61 zumeBaka BakaKara
18: 02 00 72 69 72 22 2c 22 6b 65 79 22 3a 22 44 65 66 65 rin","ke y": "Dene
19: 02 10 6d 65 22 7d me") 

Paketler: 2571 Profil: Default

[+] JSON string value [son.value.string], 26 bytes(s)

No. Time Source Destination Protocol Length Info
1 2549 1398.0.25513 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61697 → 61702 [ACK] Seq=1 Ack=237 Len=1
2 2550 1398.0.25556 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61702 → 61697 [ACK] Seq=1 Ack=2 Win=132 Len=0 SLE=1 SRE=2
3 2551 1398.0.64570 192.168.114.1 192.168.114.1 ICMP 128 Destination unreachable (Host unreachable)
4 2552 1400.345239 192.168.114.1 192.168.114.1 HTTP/1.1... 532 POST /columnar/send HTTP/1.1 , JSON (application/json)
5 2553 1400.345294 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [ACK] Seq=1 Ack=489 Win=65024 Len=0
6 2554 1400.347897 192.168.114.1 192.168.114.1 TCP 209 8879 → 52873 [PSH, ACK] Seq=1 Ack=489 Win=65024 Len=165 [TCP PDU reassembled in 2556]
7 2555 1400.347961 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=489 Ack=168 Win=65280 Len=0
8 2556 1400.348010 192.168.114.1 192.168.114.1 HTTP/1.1... 133 HTTP/1.1 200 OK , JSON (application/json)
9 2557 1400.348861 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=489 Ack=255 Win=65280 Len=0
10 2558 1400.348894 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [FIN, ACK] Seq=255 Ack=489 Win=65024 Len=0
11 2559 1400.349351 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [FIN, ACK] Seq=255 Ack=489 Win=65024 Len=0
12 2560 1400.349267 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=490 Ack=255 Win=65280 Len=0
13 2561 1407.778875 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61701 → 61698 [ACK] Seq=1 Ack=255 Len=1
14 2562 1407.778973 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61698 → 61701 [ACK] Seq=0 Ack=2 Win=251 Len=0 SLE=1 SRE=2
15 2563 1413.148351 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61702 → 61697 [ACK] Seq=0 Ack=2 Win=132 Len=1
16 2564 1413.148394 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61697 → 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
17 2565 1413.719093 127.0.0.1 127.0.0.1 TCP 45 49684 → 49685 [PSH, ACK] Seq=95 Ack=1 Win=255 Len=1
18 2566 1417.910963 127.0.0.1 127.0.0.1 TCP 44 49685 → 49684 [ACK] Seq=1 Ack=96 Win=386 Len=0
19 2567 1417.911359 127.0.0.1 127.0.0.1 TCP 45 49689 → 49688 [PSH, ACK] Seq=95 Ack=1 Win=255 Len=1

Frame 2552: Packet, 532 bytes on wire (4256 bits), 532 bytes captured (4256 bits) on interface \Device\NPF_Loopback
0: 00 00 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4b 0d HTTP/1.1 200 OK
1: 00 10 03 53 65 72 66 75 72 6a 20 57 65 72 6b 7a 65 75 Server: Werkzeu
2: 00 20 67 33 2e 31 2e 33 20 59 74 68 6f 2e 2f 33 g/3.1.3 Python/3
3: 00 30 2e 31 33 2e 37 0d 0a 44 61 74 65 3a 20 53 75 6e .13.7 - Date: Sun
4: 00 40 2c 20 30 37 20 44 65 63 20 32 30 32 35 20 30 36 ,07 Dec 2025 06
5: 00 50 3a 20 37 20 44 65 63 20 32 30 32 35 20 30 36 :37.000 MT-Cont
6: 00 60 64 74 2d 54 65 70 65 3a 20 53 61 70 6c 6e 74 ent-Type: applic
7: 00 70 64 69 6f 65 2c 65 73 6c 6f 6d 0d 43 6f 6d 74 ation/json; cont
8: 00 80 65 6e 74 2d 4c 65 66 74 68 3a 20 38 39 0d 0a ent-Leng th: 89
9: 00 90 43 6f 6e 6d 65 63 74 69 6f 6e 3a 20 63 6c 6f 73 Connection: clos
10: 00 a0 65 0d 0a 0d 0b 7b 0a 20 22 64 65 63 72 79 70 e....: ("decryp
11: 00 b0 74 65 64 22 3a 20 22 55 7a 75 6d 55 7a 75 6d 65 ted": "Uzum
12: 00 c0 42 61 6b 61 42 61 6b 61 46 61 72 69 72 22 BakaBaka Kararir"
13: 00 d0 2c 0a 20 20 22 65 6e 63 72 79 70 74 65 64 22 3a ,.. "enc rypted":
14: 00 e0 20 22 55 75 61 61 7a 4d 72 6d 42 6b 72 7a 6b ["Uuaaze Brmkrz
15: 00 f0 4b 55 61 69 75 65 61 62 22 0a 7d 0a KrUuaaze aa"].

Packet (133 bytes) Reassembled TCP (254 bytes)
Paketler: 2589 Profil: Default

[+] JSON string value [son.value.string], 26 bytes(s)

No. Time Source Destination Protocol Length Info
1 2549 1398.0.25513 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61697 → 61702 [ACK] Seq=1 Ack=237 Len=1
2 2550 1398.0.25556 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61702 → 61697 [ACK] Seq=1 Ack=2 Win=132 Len=0 SLE=1 SRE=2
3 2551 1398.0.64570 192.168.114.1 192.168.114.1 ICMP 128 Destination unreachable (Host unreachable)
4 2552 1400.345239 192.168.114.1 192.168.114.1 HTTP/1.1... 532 POST /columnar/send HTTP/1.1 , JSON (application/json)
5 2553 1400.345294 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [ACK] Seq=1 Ack=489 Win=65024 Len=0
6 2554 1400.347897 192.168.114.1 192.168.114.1 TCP 209 8879 → 52873 [PSH, ACK] Seq=1 Ack=489 Win=65024 Len=165 [TCP PDU reassembled in 2556]
7 2555 1400.347961 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=489 Ack=168 Win=65280 Len=0
8 2556 1400.35181 192.168.114.1 192.168.114.1 TCP 44 8879 → 52873 [ACK] Seq=489 Ack=255 Win=65024 Len=0
9 2557 1400.351267 192.168.114.1 192.168.114.1 TCP 44 52873 → 8879 [ACK] Seq=490 Ack=255 Win=65280 Len=0
10 2558 1407.778875 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61701 → 61698 [ACK] Seq=1 Ack=255 Len=1
11 2559 1407.778973 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61698 → 61701 [ACK] Seq=0 Ack=2 Win=251 Len=0 SLE=1 SRE=2
12 2560 1413.148351 127.0.0.1 127.0.0.1 TCP 45 [TCP Keep-Alive] 61702 → 61697 [ACK] Seq=0 Ack=2 Win=132 Len=1
13 2561 1413.148394 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61697 → 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
14 2562 1413.719093 127.0.0.1 127.0.0.1 TCP 45 49684 → 49685 [PSH, ACK] Seq=95 Ack=1 Win=255 Len=1
15 2563 1417.910963 127.0.0.1 127.0.0.1 TCP 44 49685 → 49684 [ACK] Seq=1 Ack=96 Win=386 Len=0
16 2564 1417.911359 127.0.0.1 127.0.0.1 TCP 45 49689 → 49688 [PSH, ACK] Seq=95 Ack=1 Win=255 Len=1

Frame 2552: Packet, 532 bytes on wire (4256 bits), 532 bytes captured (4256 bits) on interface \Device\NPF_Loopback
0: 00 00 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4b 0d HTTP/1.1 200 OK
1: 00 10 03 53 65 72 66 75 72 6a 20 57 65 72 6b 7a 65 75 Server: Werkzeu
2: 00 20 67 33 2e 31 2e 33 20 59 74 68 6f 2e 2f 33 g/3.1.3 Python/3
3: 00 30 2e 31 33 2e 37 0d 0a 44 61 74 65 3a 20 53 75 6e .13.7 - Date: Sun
4: 00 40 2c 20 30 37 20 44 65 63 20 32 30 32 35 20 30 36 ,07 Dec 2025 06
5: 00 50 3a 20 37 20 44 65 63 20 32 30 32 35 20 30 36 :37.000 MT-Cont
6: 00 60 64 74 2d 54 65 70 65 3a 20 53 61 70 6c 6e 74 ent-Type: applic
7: 00 70 64 69 6f 65 2c 65 73 6c 6f 6d 0d 43 6f 6d 74 ation/json; cont
8: 00 80 65 6e 74 2d 4c 65 66 74 68 3a 20 38 39 0d 0a ent-Leng th: 89
9: 00 90 43 6f 6e 6d 65 63 74 69 6f 6e 3a 20 63 6c 6f 73 Connection: clos
10: 00 a0 65 0d 0a 0d 0b 7b 0a 20 22 64 65 63 72 79 70 e....: ("decryp
11: 00 b0 74 65 64 22 3a 20 22 55 7a 75 6d 55 7a 75 6d 65 ted": "Uzum
12: 00 c0 42 61 6b 61 42 61 6b 61 46 61 72 69 72 22 BakaBaka Kararir"
13: 00 d0 2c 0a 20 20 22 65 6e 63 72 79 70 74 65 64 22 3a ,.. "enc rypted":
14: 00 e0 20 22 55 75 61 61 7a 4d 72 6d 42 6b 72 7a 6b ["Uuaaze Brmkrz
15: 00 f0 4b 55 61 69 75 65 61 62 22 0a 7d 0a KrUuaaze aa"].

Packet (133 bytes) Reassembled TCP (254 bytes)
Paketler: 2589 Profil: Default
```

9. DES Şifreleme:

DES Cipher

Metin (8 karakter):

Anahtar (7 karakter):

Şifrele & Çöz

Şifrelenmiş Metin (hex):

d46b5e469f806c43

Çözülmüş Metin:

Mercedes

[← Ana Menü](#)

```
Time Source Destination Protocol Length Info
2977 1602.688441 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61701 → 61698 [ACK] Seq=2 Ack=1 Win=255 Len=0 SLE=0 SRE=1
2986 1614.860014 192.168.114.1 192.168.114.1 TCP 44 49733 → 8879 [FIN, ACK] Seq=1 Ack=1 Win=65280 Len=0
2978 1614.860014 192.168.114.1 192.168.114.1 TCP 44 49733 → 49733 [ACK] Seq=1 Ack=1 Win=65280 Len=0
2980 1614.860264 192.168.114.1 192.168.114.1 TCP 44 8879 → 49733 [SYN, ACK] Seq=0 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2981 1614.860292 192.168.114.1 192.168.114.1 TCP 56 50176 → 8879 [SYN, ACK] Seq=0 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2982 1614.860331 192.168.114.1 192.168.114.1 TCP 44 49733 → 8879 [ACK] Seq=2 Ack=2 Win=65280 Len=0
2983 1614.860397 192.168.114.1 192.168.114.1 TCP 56 8879 → 50176 [SYN, ACK] Seq=0 Ack=1 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2984 1614.860427 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
2985 1614.860742 192.168.114.1 192.168.114.1 TCP 507 POST /des/send HTTP/1.1, 250M (application/json)
2986 1614.860778 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [ACK] Seq=1 Ack=464 Win=65280 Len=0
2987 1614.864657 192.168.114.1 192.168.114.1 TCP 209 8879 → 50176 [PSH, ACK] Seq=1 Ack=464 Win=65280 Len=165 [TCP PDU reassembled in 2989]
2988 1614.864745 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [SYN, ACK] Seq=0 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2989 1614.864862 192.168.114.1 192.168.114.1 TCP 109 HTTP/1.1 200 OK, 250M (application/json)
2990 1614.864899 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=464 Ack=231 Win=65280 Len=0
2991 1614.865453 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=231 Ack=465 Win=65280 Len=0
2992 1614.865480 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [ACK] Seq=231 Ack=465 Win=65280 Len=0
2993 1614.868025 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [FIN, ACK] Seq=231 Ack=465 Win=65280 Len=0
2994 1614.868091 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=465 Ack=232 Win=65280 Len=0
2995 1617.962483 127.0.0.1 127.0.0.1 TCP 45 49684 → 49685 [PSH, ACK] Seq=106 Ack=1 Win=255 Len=1
2996 1617.962509 127.0.0.1 127.0.0.1 TCP 44 49685 → 49684 [ACK] Seq=1 Ack=107 Win=386 Len=0

Frame 2985: Packet, 507 bytes on wire (4056 bits), 507 bytes captured (4056 bits) on interface \Device\NPF_Loopback
    Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1
    Transmission Control Protocol, Src Port: 50176, Dst Port: 8879, Seq: 1, Ack: 1, Len: 463
    Hypertext Transfer Protocol
    JavaScript Object Notation: application/json
        Object
            Member: text
                [Path with value: /text:Mercedes]
                [Member with value: text:Mercedes]
                    String value: Mercedes
            Key: text
                [Path: /text]
        Member: key
            [Path with value: /key:abcdefg]
            [Member with value: key:abcdefg]
                String value: abcdefg
            Key: key
                [Path: /key]
    
```

Paketler: 3025 Profil: Default

```
Frame 2985: Packet, 507 bytes on wire (4056 bits), 507 bytes captured (4056 bits) on interface \Device\NPF_Loopback
    Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1
    Transmission Control Protocol, Src Port: 50176, Dst Port: 8879, Seq: 1, Ack: 1, Len: 463
    Hypertext Transfer Protocol
    JavaScript Object Notation: application/json
        Object
            Member: text
                [Path with value: /text:Mercedes]
                [Member with value: text:Mercedes]
                    String value: Mercedes
            Key: text
                [Path: /text]
        Member: key
            [Path with value: /key:abcdefg]
            [Member with value: key:abcdefg]
                String value: abcdefg
            Key: key
                [Path: /key]
    
```

Paketler: 3025 Profil: Default

```
No. Time Source Destination Protocol Length Info
2977 1602.588441 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61701 → 61698 [ACK] Seq=2 Ack=1 Win=255 Len=0 SLE=0 SRE=1
2978 1614.860014 192.168.114.1 192.168.114.1 TCP 44 49733 → 8879 [FIN, ACK] Seq=1 Ack=1 Win=65280 Len=0
2979 1614.860961 192.168.114.1 192.168.114.1 TCP 44 8879 → 49733 [ACK] Seq=1 Ack=2 Win=65280 Len=0
2980 1614.860264 192.168.114.1 192.168.114.1 TCP 44 8879 → 49733 [FIN, ACK] Seq=1 Ack=2 Win=65280 Len=0
2981 1614.860292 192.168.114.1 192.168.114.1 TCP 56 50176 → 8879 [SYN, ACK] Seq=0 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2982 1614.860331 192.168.114.1 192.168.114.1 TCP 44 49733 → 8879 [ACK] Seq=2 Ack=2 Win=65280 Len=0
2983 1614.860397 192.168.114.1 192.168.114.1 TCP 56 8879 → 50176 [SYN, ACK] Seq=0 Ack=1 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2984 1614.860427 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
2985 1614.860742 192.168.114.1 192.168.114.1 TCP 507 POST /des/send HTTP/1.1, 250M (application/json)
2986 1614.860778 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [ACK] Seq=1 Ack=464 Win=65280 Len=0
2987 1614.864657 192.168.114.1 192.168.114.1 TCP 209 8879 → 50176 [PSH, ACK] Seq=231 Ack=465 Win=65280 Len=165 [TCP PDU reassembled in 2989]
2988 1614.864745 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=464 Ack=232 Win=65280 Len=0
2989 1614.864862 192.168.114.1 192.168.114.1 TCP 109 HTTP/1.1 200 OK, 250M (application/json)
2990 1614.864899 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=231 Ack=465 Win=65280 Len=0
2991 1614.865445 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [SYN, ACK] Seq=0 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2992 1614.865482 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [ACK] Seq=231 Ack=465 Win=65280 Len=0
2993 1614.868025 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [FIN, ACK] Seq=0 Ack=465 Win=65280 Len=0
2994 1614.868091 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=465 Ack=232 Win=65280 Len=0
2995 1617.962483 127.0.0.1 127.0.0.1 TCP 45 49684 → 49685 [PSH, ACK] Seq=106 Ack=1 Win=255 Len=1
2996 1617.962509 127.0.0.1 127.0.0.1 TCP 44 49685 → 49684 [ACK] Seq=1 Ack=107 Win=386 Len=0

Frame 2985: Packet, 507 bytes on wire (4056 bits), 507 bytes captured (4056 bits) on interface \Device\NPF_Loopback
    Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1
    Transmission Control Protocol, Src Port: 8879, Dst Port: 50176, Seq: 166, Ack: 464, Len: 65
    Hypertext Transfer Protocol
    JavaScript Object Notation: application/json
        Object
            Member: decrypted
                [Path with value: /decrypted:Mercedes]
                [Member with value: decrypted:Mercedes]
                    String value: Mercedes
            Key: decrypted
                [Path: /decrypted]
        Member: encrypted
            [Path with value: /encrypted:d46b5e469f806c43]
            [Member with value: encrypted:d46b5e469f806c43]
                String value: d46b5e469f806c43
            Key: encrypted
                [Path: /encrypted]
    
```

Paketler: 109 bytes Reassembled TCP (230 bytes)

```
No. Time Source Destination Protocol Length Info
2977 1602.588441 127.0.0.1 127.0.0.1 TCP 56 [TCP Keep-Alive ACK] 61701 → 61698 [ACK] Seq=2 Ack=1 Win=255 Len=0 SLE=0 SRE=1
2978 1614.860014 192.168.114.1 192.168.114.1 TCP 44 49733 → 8879 [FIN, ACK] Seq=1 Ack=1 Win=65280 Len=0
2979 1614.860961 192.168.114.1 192.168.114.1 TCP 44 8879 → 49733 [ACK] Seq=1 Ack=2 Win=65280 Len=0
2980 1614.860264 192.168.114.1 192.168.114.1 TCP 44 8879 → 49733 [FIN, ACK] Seq=1 Ack=2 Win=65280 Len=0
2981 1614.860292 192.168.114.1 192.168.114.1 TCP 56 50176 → 8879 [SYN, ACK] Seq=0 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2982 1614.860331 192.168.114.1 192.168.114.1 TCP 44 49733 → 8879 [ACK] Seq=2 Ack=2 Win=65280 Len=0
2983 1614.860397 192.168.114.1 192.168.114.1 TCP 56 8879 → 50176 [SYN, ACK] Seq=0 Ack=1 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2984 1614.860427 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
2985 1614.860742 192.168.114.1 192.168.114.1 TCP 507 POST /des/send HTTP/1.1, 250M (application/json)
2986 1614.860778 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [ACK] Seq=1 Ack=464 Win=65280 Len=0
2987 1614.864657 192.168.114.1 192.168.114.1 TCP 209 8879 → 50176 [PSH, ACK] Seq=231 Ack=465 Win=65280 Len=165 [TCP PDU reassembled in 2989]
2988 1614.864745 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=464 Ack=232 Win=65280 Len=0
2989 1614.864862 192.168.114.1 192.168.114.1 TCP 109 HTTP/1.1 200 OK, 250M (application/json)
2990 1614.864899 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=231 Ack=465 Win=65280 Len=0
2991 1614.865445 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [SYN, ACK] Seq=0 Win=6535 Len=0 MSS=65495 WS=256 SACK_PERM
2992 1614.865482 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [ACK] Seq=231 Ack=465 Win=65280 Len=0
2993 1614.868025 192.168.114.1 192.168.114.1 TCP 44 8879 → 50176 [FIN, ACK] Seq=0 Ack=465 Win=65280 Len=0
2994 1614.868091 192.168.114.1 192.168.114.1 TCP 44 50176 → 8879 [ACK] Seq=465 Ack=232 Win=65280 Len=0
2995 1617.962483 127.0.0.1 127.0.0.1 TCP 45 49684 → 49685 [PSH, ACK] Seq=106 Ack=1 Win=255 Len=1
2996 1617.962509 127.0.0.1 127.0.0.1 TCP 44 49685 → 49684 [ACK] Seq=1 Ack=107 Win=386 Len=0

Frame 2985: Packet, 507 bytes on wire (4056 bits), 507 bytes captured (4056 bits) on interface \Device\NPF_Loopback
    Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1
    Transmission Control Protocol, Src Port: 8879, Dst Port: 50176, Seq: 166, Ack: 464, Len: 65
    Hypertext Transfer Protocol
    JavaScript Object Notation: application/json
        Object
            Member: decrypted
                [Path with value: /decrypted:Mercedes]
                [Member with value: decrypted:Mercedes]
                    String value: Mercedes
            Key: decrypted
                [Path: /decrypted]
        Member: encrypted
            [Path with value: /encrypted:d46b5e469f806c43]
            [Member with value: encrypted:d46b5e469f806c43]
                String value: d46b5e469f806c43
            Key: encrypted
                [Path: /encrypted]
    
```

Paketler: 109 bytes Reassembled TCP (230 bytes)

10. AES Şifreleme:

AES Cipher (AES-128)

Metin (16 karakter):
Merhabalar Yusuf

Anahtar (16 karakter):
0123456789abcdef

Şifrele & Çöz

Şifrelenmiş Metin (hex):
82d56b294f92f175e9fab7fc1b2267d

Çözülmüş Metin:
Merhabalar Yusuf

[← Ana Menü](#)

No.	Time	Source	Destination	Protocol	Length	Info
3617	1988.239988	127.0.0.1	127.0.0.1	TCP	56	[TCP Keep-Alive ACK] 61697 → 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
3618	1921.616869	192.168.114.1	192.168.114.1	HTTP/1.1	542	POST /aes/send HTTP/1.1 , JSON (application/json)
3619	1921.616913	192.168.114.1	192.168.114.1	TCP	44	8879 → 62345 [ACK] Seq=1 Ack=499 Win=65024 Len=0
3620	1921.620621	192.168.114.1	192.168.114.1	TCP	209	8879 → 62345 [PSH, ACK] Seq=1 Ack=499 Win=65024 Len=165 [TCP PDU reassembled in 3622]
3621	1921.620691	192.168.114.1	192.168.114.1	TCP	44	62345 → 8879 [ACK] Seq=499 Ack=166 Win=65280 Len=0
3622	1921.620751	192.168.114.1	192.168.114.1	HTTP/1.1	98	HTTP/1.1 200 OK , JSON (application/json)
3623	1921.620774	192.168.114.1	192.168.114.1	TCP	44	62345 → 8879 [ACK] Seq=499 Ack=220 Win=65280 Len=0
3624	1921.621285	192.168.114.1	192.168.114.1	TCP	44	62345 → 8879 [FIN, ACK] Seq=499 Ack=220 Win=65280 Len=0
3625	1921.621319	192.168.114.1	192.168.114.1	TCP	44	8879 → 62345 [ACK] Seq=220 Ack=500 Win=65024 Len=0
3626	1921.623085	192.168.114.1	192.168.114.1	TCP	56	62229 → 8879 [SYN] Seq=0 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM
3627	1921.623153	192.168.114.1	192.168.114.1	TCP	56	8879 → 62229 [SYN, ACK] Seq=0 Ack=1 Win=65535 Seq=1 Ack=1 Win=65495 WS=256 SACK_PERM
3628	1921.623184	192.168.114.1	192.168.114.1	TCP	44	62229 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
3629	1921.623497	192.168.114.1	192.168.114.1	HTTP/1.1	556	POST /aes/send HTTP/1.1 , JSON (application/json)
3630	1921.623552	192.168.114.1	192.168.114.1	TCP	44	8879 → 62229 [ACK] Seq=1 Ack=515 Win=64768 Len=0
3631	1921.623580	192.168.114.1	192.168.114.1	TCP	44	8879 → 62229 [ACK] Seq=220 Ack=500 Win=65024 Len=0
3632	1921.623740	192.168.114.1	192.168.114.1	TCP	44	62345 → 8879 [ACK] Seq=220 Ack=500 Win=65024 Len=0
3633	1921.628756	192.168.114.1	192.168.114.1	TCP	209	8879 → 62229 [PSH, ACK] Seq=1 Ack=515 Win=64768 Len=165 [TCP PDU reassembled in 3635]
3634	1921.628815	192.168.114.1	192.168.114.1	TCP	44	62229 → 8879 [ACK] Seq=515 Ack=166 Win=65280 Len=0
3635	1921.629068	192.168.114.1	192.168.114.1	HTTP/1.1	82	HTTP/1.1 200 OK , JSON (application/json)
3636	1921.629117	192.168.114.1	192.168.114.1	TCP	44	62229 → 8879 [ACK] Seq=515 Ack=204 Win=65280 Len=0

```
0000 2e 33 36 28 2b 4b 54 4d 4c 2c 20 6c 6b 65 .36 (KHTML, like
0001 20 47 65 63 6b 6f 29 20 60 60 72 6f 65 2f 1) Gecko/ Chrome/1
0070 34 32 2e 2b 30 2e 39 28 53 61 66 61 72 69 2f 42.0.0.0 Safari/
0100 35 33 37 2e 33 36 0d 0a 43 6f 6e 74 65 0e 74 2d 537.36 Content-
0110 54 79 70 65 3e 20 61 70 78 6c 69 63 61 74 69 6f Type: application
0120 6e 2f 6a 73 6f 6e 0d 0a 41 63 65 70 74 3a 20 n/json Accept:
0130 2a 2f 2a 0d 04 f2 72 69 67 69 6e 3a 29 68 74 74 /*/ Oribin: http://192.168.114.
0140 70 3a 2f 2f 3e 39 32 2a 31 3e 38 2e 31 31 34 2e p://192.168.114.
0150 31 3a 38 37 39 0d 0a 52 65 66 65 72 65 72 3a 1:8879... Referer:
0160 20 68 74 74 3a 2f 2f 31 39 32 2e 31 3e 38 2e http://192.168.
0170 31 3e 2e 31 3a 38 37 37 39 2e 61 65 2f 0d 114.1:8879/aes/
0180 0e 41 63 65 66 65 63 60 69 67 69 67 69 67 Accept-Encoding:
0190 2a 20 57 7a 69 70 2c 20 64 65 66 66 61 74 65 0d deflate
01a0 0a 41 63 65 65 70 74 2d 4c 61 66 67 75 61 67 65 Accept-Language:
01b0 3a 20 74 72 2d 54 52 2c 74 72 3b 71 3d 30 2e 39 :tr-TR, tr;q:0.9
01c0 2c 65 6e 2d 55 53 3b 71 3d 30 2e 38 2c 65 6e 3b ,en-US;q:0.8, en;
01d0 71 3d 30 2e 37 0d 0a 0a 7b 22 74 65 74 22 q:0.7... {"text":
01e0 3a 22 4d 65 72 68 61 62 61 6c 61 72 20 59 75 73 :"Merhabalar Yusuf"
01f0 75 66 22 2c 22 6b 65 79 22 3a 22 30 31 32 33 34 "key": "0123456789abcdef", "mo
0200 35 36 37 38 39 61 62 63 64 65 66 22 2c 22 6d 6f de": "encrypt"
0210 64 65 22 3a 22 66 63 72 79 70 74 22 7d
```

Paketler: 3736

Profit: Default

o.	Time	Source	Destination	Protocol	Length Info
3617	1988.239908	127.0.0.1	127.0.0.1	TCP	56 [TCP Keep-Alive ACK] 61697 → 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
3618	1921.616869	192.168.114.1	192.168.114.1	HTTP/3..	542 POST /aes/send HTTP/1.1 , JSON (application/json)
3619	1921.616913	192.168.114.1	192.168.114.1	TCP	44 8879 → 62345 [ACK] Seq=1 Ack=499 Win=65024 Len=0
3620	1921.620621	192.168.114.1	192.168.114.1	TCP	209 8879 → 62345 [PSH, ACK] Seq=1 Ack=499 Win=65024 Len=165 [TCP PDU reassembled in 3622]
3621	1921.620659	192.168.114.1	192.168.114.1	TCP	44 62345 → 8879 [ACK] Seq=499 Ack=166 Win=65280 Len=0
3622	1921.620751	192.168.114.1	192.168.114.1	HTTP/3..	98 HTTP/1.1 200 OK , JSON (application/json)
3623	1921.620774	192.168.114.1	192.168.114.1	TCP	44 62345 → 8879 [ACK] Seq=499 Ack=220 Win=65280 Len=0
3624	1921.621285	192.168.114.1	192.168.114.1	TCP	44 62345 → 8879 [FIN, ACK] Seq=499 Ack=220 Win=65280 Len=0
3625	1921.621319	192.168.114.1	192.168.114.1	TCP	44 8879 → 62345 [ACK] Seq=220 Ack=515 Win=65024 Len=0
3626	1921.621353	192.168.114.1	192.168.114.1	TCP	56 8879 → 62345 [SYN, ACK] Seq=0 Ack=1 Win=65325 Len=0 MSS=65495 WS=256 SACK_PERM
3627	1921.621353	192.168.114.1	192.168.114.1	TCP	56 8879 → 62345 [SYN, ACK] Seq=0 Ack=1 Win=65325 Len=0 MSS=65495 WS=256 SACK_PERM
3628	1921.621819	192.168.114.1	192.168.114.1	TCP	44 62229 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
3629	1921.6212497	192.168.114.1	192.168.114.1	HTTP/3..	558 POST /aes/send HTTP/1.1 , JSON (application/json)
3630	1921.621353	192.168.114.1	192.168.114.1	TCP	44 8879 → 62229 [ACK] Seq=1 Ack=515 Win=64768 Len=0
3631	1921.621363	192.168.114.1	192.168.114.1	TCP	44 8879 → 62345 [FIN, ACK] Seq=228 Ack=500 Win=65024 Len=0
3632	1921.621370	192.168.114.1	192.168.114.1	TCP	44 62345 → 8879 [ACK] Seq=500 Ack=221 Win=65280 Len=0
3633	1921.621370	192.168.114.1	192.168.114.1	TCP	209 8879 → 62229 [PSH, ACK] Seq=1 Ack=515 Win=64768 Len=165 [TCP PDU reassembled in 3635]
3634	1921.6208815	192.168.114.1	192.168.114.1	TCP	44 62229 → 8879 [ACK] Seq=515 Ack=166 Win=65280 Len=0
3635	1921.6209068	192.168.114.1	192.168.114.1	HTTP/3..	82 HTTP/1.1 200 OK , JSON (application/json)
3636	1921.6209117	192.168.114.1	192.168.114.1	TCP	44 62229 → 8879 [ACK] Seq=515 Ack=204 Win=65280 Len=0
4					
↳ Frame 3622: Packet, 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface \Device\NPF_Loopback, i					
↳ Null/Loopback					
↳ Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1					
↳ Transmission Control Protocol, Src Port: 62345, Dst Port: 62345, Seq: 166, Ack: 499, Len: 54					
[2 Reassembled TCP Segments (219 bytes): #3620(165), #3622(54)]					
↳ Hypertext Transfer Protocol					
↳ JavaScript Object Notation: application/json					
↳ Object					
↳ Member: encrypted					
[Path with value: /encrypted: /encrypted:82d56b294f92f175e9fab7fcab2267d]					
[Member with value: encrypted:82d56b294f92f175e9fab7fcab2267d]					
String value: 82d56b294f92f175e9fab7fcab2267d					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path with value: /text:82d56b294f92f175e9fab7fcab2267d]					
[Member with value: text:82d56b294f92f175e9fab7fcab2267d]					
String value: 82d56b294f92f175e9fab7fcab2267d					
Key: text					
[Path: /text]					
↳ Member: key					
[Path with value: /key:0123456789abcdef]					
[Member with value: key:0123456789abcdef]					
String value: 0123456789abcdef					
Key: key					
[Path: /key]					
↳ Member: mode					
[Path with value: /mode:decrypt]					
[Member with value: mode:decrypt]					
String value: decrypt					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					
Key: text					
[Path: /text]					
Key: key					
[Path: /key]					
Key: mode					
[Path: /mode]					
Key: encrypted					
[Path: /encrypted]					

o.	Time	Source	Destination	Protocol	Length	Info
3617	1908.239908	127.0.0.1	127.0.0.1	TCP	56	[TCP Keep-Alive ACK] 61697 → 61702 [ACK] Seq=2 Ack=1 Win=237 Len=0 SLE=0 SRE=1
3618	1921.629751	192.168.114.1	192.168.114.1	TCP	54	HTTP/1.1 GET /index.html HTTP/1.1 [ACK] Seq=1 Ack=409 Win=65324 Len=0
3619	1921.616913	192.168.114.1	192.168.114.1	TCP	44	8879 → 62345 [ACK] Seq=1 Ack=409 Win=65324 Len=0
3620	1921.629621	192.168.114.1	192.168.114.1	TCP	289	8879 → 62345 [PSH, ACK] Seq=1 Ack=499 Win=65324 Len=165 [TCP PDU reassembled in 3622]
3621	1921.628691	192.168.114.1	192.168.114.1	TCP	44	62345 → 8879 [ACK] Seq=499 Ack=166 Win=65280 Len=0
3622	1921.628751	192.168.114.1	192.168.114.1	HTTP/1.1	98	HTTP/1.1 200 OK , JSON (application/json)
3623	1921.629774	192.168.114.1	192.168.114.1	TCP	44	62345 → 8879 [ACK] Seq=499 Ack=228 Win=65280 Len=0
3624	1921.623285	192.168.114.1	192.168.114.1	TCP	44	62345 → 8879 [ACK] Seq=499 Ack=220 Win=65280 Len=0
3625	1921.629751	192.168.114.1	192.168.114.1	TCP	44	8879 → 62345 [ACK] Seq=1 Ack=409 Win=65324 Len=0
3626	1921.628699	192.168.114.1	192.168.114.1	TCP	56	62329 → 8879 [SYN, ACK] Seq=1 Ack=409 Win=65335 Len=9 MSS=65459 WS=256 SACK_PERM
3627	1921.623153	192.168.114.1	192.168.114.1	TCP	56	8879 → 62299 [SYN, ACK] Seq=1 Ack=1 Win=65335 Len=8 MSS=65459 WS=256 SACK_PERM
3628	1921.623189	192.168.114.1	192.168.114.1	TCP	44	62299 → 8879 [ACK] Seq=1 Ack=1 Win=65280 Len=0
3629	1921.623497	192.168.114.1	192.168.114.1	HTTP/1.1	558	POST /aes/send HTTP/1.1 , JSON (application/json)
3630	1921.623537	192.168.114.1	192.168.114.1	TCP	44	8879 → 62299 [ACK] Seq=1 Ack=515 Win=64768 Len=0
3631	1921.623738	192.168.114.1	192.168.114.1	TCP	44	62299 → 8879 [ACK] Seq=1 Ack=515 Win=65280 Len=0
3632	1921.623794	192.168.114.1	192.168.114.1	TCP	44	8879 → 62299 [ACK] Seq=1 Ack=515 Win=64768 Len=0
3633	1921.628736	192.168.114.1	192.168.114.1	TCP	209	8879 → 62299 [PSH, ACK] Seq=1 Ack=515 Win=64768 Len=0
3634	1921.628815	192.168.114.1	192.168.114.1	TCP	44	62299 → 8879 [ACK] Seq=515 Ack=166 Win=65280 Len=0
3635	1921.629068	192.168.114.1	192.168.114.1	HTTP/1.1	82	HTTP/1.1 200 OK , JSON (application/json)
3636	1921.629117	192.168.114.1	192.168.114.1	TCP	44	62299 → 8879 [ACK] Seq=515 Ack=204 Win=65280 Len=0

Frame 3635: Packet, 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface \Device\NPF_Lobackpack, i

- Null/Loopback
- Internet Protocol Version 4, Src: 192.168.114.1, Dst: 192.168.114.1
- Transmission Control Protocol, Src Port: 8879, Dst Port: 62299, Seq: 166, Ack: 515, Len: 38
- [2 Resealed TCP Segments (263 bytes): #3633(165), #3635(30)]
- Hypertext Transfer Protocol
- JavaScript Object Notation: application/json
- Object
 - Members: decrypted
 - [Path] with value: /decrypted/Merhabalar Yusuf]
 - [Members with values: /decrypted/Merhabalar Yusuf]
 - String with value: %Merhabalar Yusuf
- Key: decrypted
- [Path: /decrypted]

Packet (82 bytes) Reassembled TCP (203 bytes) Paketler: 3833 Profil: Default

JSON string value (json.value.string), 18 byte(s)

5. Sonuç ve Değerlendirme:

Bu proje, klasik ve modern kriptografi algoritmalarının web tabanlı bir platform üzerinden hem eğitim amaçlı hem de uygulamalı şekilde kullanılabilmesini sağlamayı hedefleyen kapsamlı bir çalışmadır. Uygulamada Caesar, Vigenère, Polybius, Substitution, Rail Fence, Columnar Transposition, Hill, DES ve AES gibi pek çok önemli şifreleme algoritması modüler bir yapı ile bir araya getirilmiştir. Her algoritmanın kendine ait sayfasının bulunması, kullanıcı deneyimini sadeleştirmiş ve her yöntemin çalışma mantığının daha anlaşılır bir şekilde test edilebilmesine imkân tanımıştır.

Proje sürecinde Flask tabanlı bir mimari tercih edilmesi, hem geliştirilebilirliği hem de kodların okunabilirliğini artırmıştır. “cipher” ve “routes” klasörleriyle oluşturulan yapı, yazılım mimarisi açısından katmanlı bir düzen sunmuş; algoritmalar ile sunum katmanı birbirinden ayrılarak daha profesyonel bir yaklaşım sergilenmiştir. Ayrıca kullanılan HTML şablonları ve statik kaynaklar ile modern ve kullanıcı dostu bir arayüz elde edilmiştir.

Genel olarak değerlendirildiğinde proje, hem teorik kriptografi bilgisini hem de uygulamalı yazılım geliştirme becerilerini başarılı bir şekilde bir araya getirmektedir.