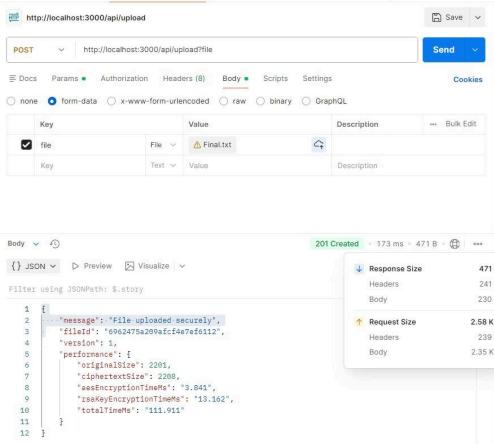
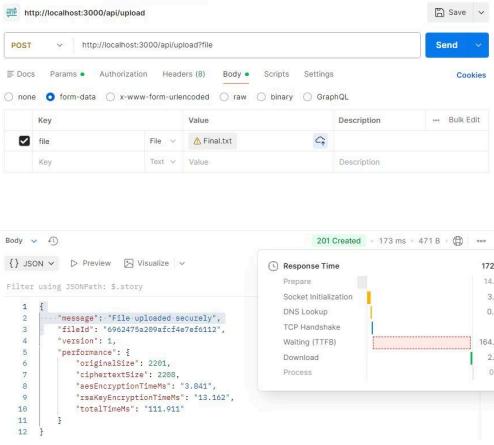
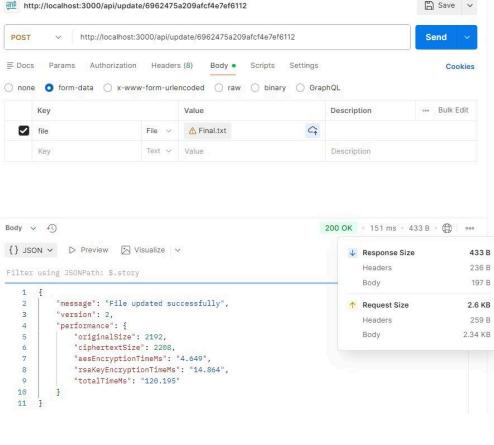
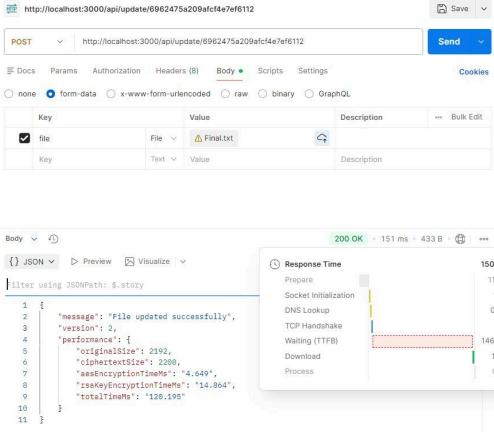
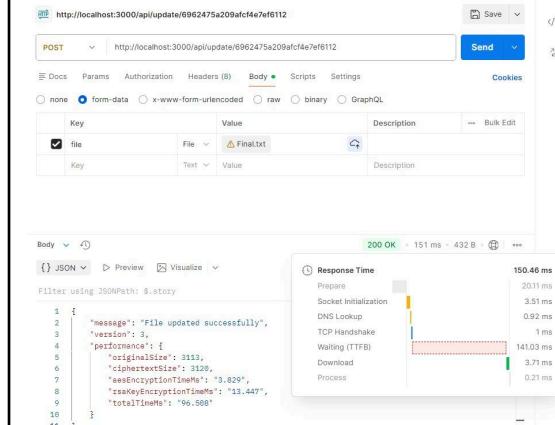
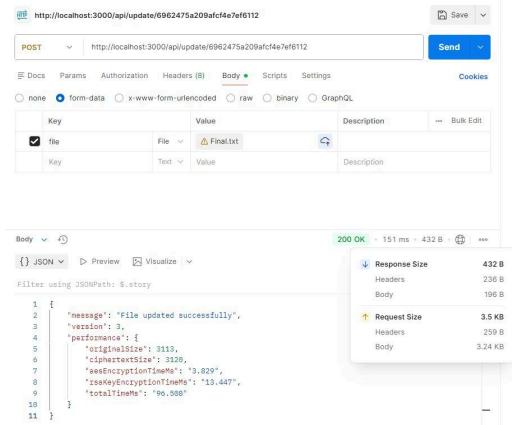
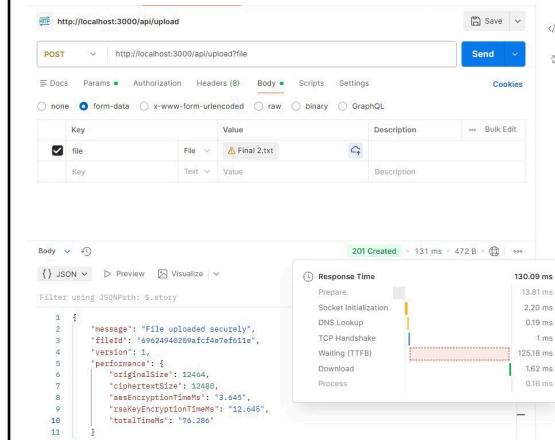
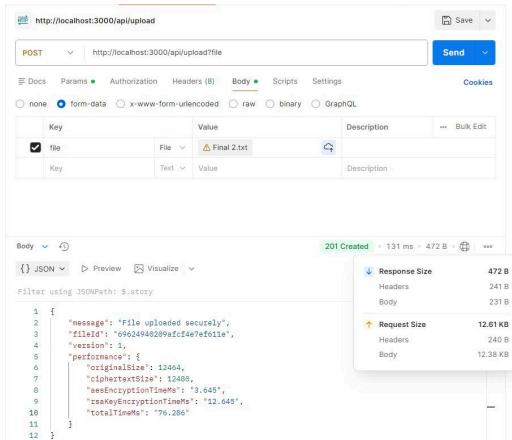


NAMA	REQUEST/RESPONSE SIZE (SS)	RESPONSE TIME(SS)																
teks kecil.txt (version 1) 2.18KB	 <p>Body</p> <p>201 Created - 173 ms - 471 B - ⏺</p> <p>{ } JSON ▾ D Preview ▾ Visualize ▾</p> <p>Filter using JSONPath: \$.story</p> <pre>1 [{ "message": "File uploaded securely", "fileId": "6962475a209afc4e7ef6112", "version": 1, "performance": { "originalSize": 2201, "ciphertextSize": 2208, "seedEncryptionTimeMs": "3.841", "rsaKeyEncryptionTimeMs": "13.162", "totalTimeMs": "111.911" } }]</pre>	 <p>Body</p> <p>201 Created - 173 ms - 471 B - ⏺</p> <p>{ } JSON ▾ D Preview ▾ Visualize ▾</p> <p>Filter using JSONPath: \$.story</p> <pre>1 [{ "message": "File uploaded securely", "fileId": "6962475a209afc4e7ef6112", "version": 1, "performance": { "originalSize": 2201, "ciphertextSize": 2208, "seedEncryptionTimeMs": "3.841", "rsaKeyEncryptionTimeMs": "13.162", "totalTimeMs": "111.911" } }]</pre> <p>Response Time</p> <table border="1"><thead><tr><th>Step</th><th>Time (ms)</th></tr></thead><tbody><tr><td>Prepare</td><td>14.20</td></tr><tr><td>Socket Initialization</td><td>3.89</td></tr><tr><td>DNS Lookup</td><td>0.43</td></tr><tr><td>TCP Handshake</td><td>1</td></tr><tr><td>Waiting (TTFB)</td><td>164.68</td></tr><tr><td>Download</td><td>2.22</td></tr><tr><td>Process</td><td>0.16</td></tr></tbody></table>	Step	Time (ms)	Prepare	14.20	Socket Initialization	3.89	DNS Lookup	0.43	TCP Handshake	1	Waiting (TTFB)	164.68	Download	2.22	Process	0.16
Step	Time (ms)																	
Prepare	14.20																	
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DNS Lookup	0.43																	
TCP Handshake	1																	
Waiting (TTFB)	164.68																	
Download	2.22																	
Process	0.16																	
teks kecil.txt (Version 2) modified paragraph	 <p>Body</p> <p>200 OK - 151 ms - 433 B - ⏺</p> <p>{ } JSON ▾ D Preview ▾ Visualize ▾</p> <p>Filter using JSONPath: \$.story</p> <pre>1 [{ "message": "File updated successfully", "version": 2, "performance": { "originalSize": 2192, "ciphertextSize": 2208, "seedEncryptionTimeMs": "4.449", "rsaKeyEncryptionTimeMs": "14.864", "totalTimeMs": "120.105" } }]</pre>	 <p>Body</p> <p>200 OK - 151 ms - 433 B - ⏺</p> <p>{ } JSON ▾ D Preview ▾ Visualize ▾</p> <p>Filter using JSONPath: \$.story</p> <pre>1 [{ "message": "File updated successfully", "version": 2, "performance": { "originalSize": 2192, "ciphertextSize": 2208, "seedEncryptionTimeMs": "4.449", "rsaKeyEncryptionTimeMs": "14.864", "totalTimeMs": "120.105" } }]</pre> <p>Response Time</p> <table border="1"><thead><tr><th>Step</th><th>Time (ms)</th></tr></thead><tbody><tr><td>Prepare</td><td>11.62</td></tr><tr><td>Socket Initialization</td><td>110</td></tr><tr><td>DNS Lookup</td><td>0.55</td></tr><tr><td>TCP Handshake</td><td>1</td></tr><tr><td>Waiting (TTFB)</td><td>140.44</td></tr><tr><td>Download</td><td>1.86</td></tr><tr><td>Process</td><td>0.17</td></tr></tbody></table>	Step	Time (ms)	Prepare	11.62	Socket Initialization	110	DNS Lookup	0.55	TCP Handshake	1	Waiting (TTFB)	140.44	Download	1.86	Process	0.17
Step	Time (ms)																	
Prepare	11.62																	
Socket Initialization	110																	
DNS Lookup	0.55																	
TCP Handshake	1																	
Waiting (TTFB)	140.44																	
Download	1.86																	
Process	0.17																	

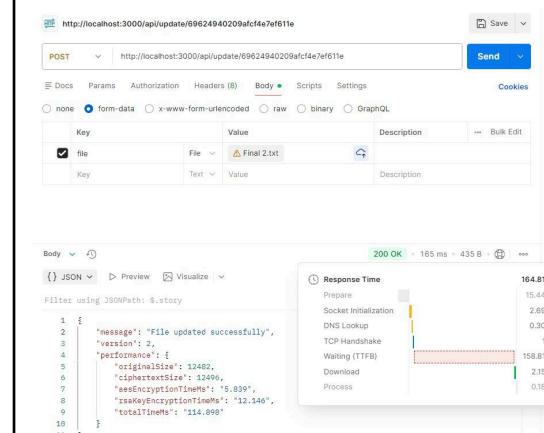
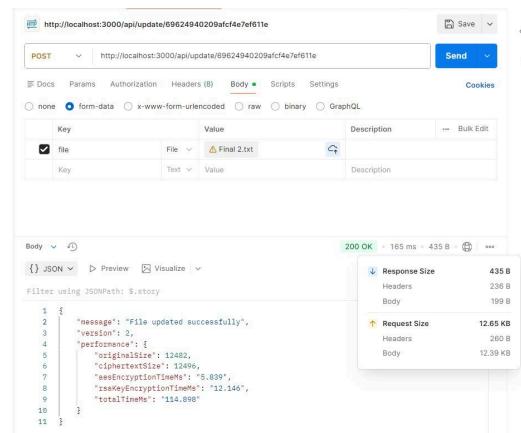
teks kecil.txt
(Version 3) text added



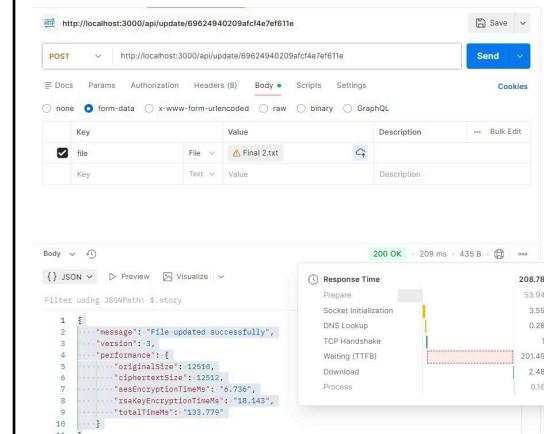
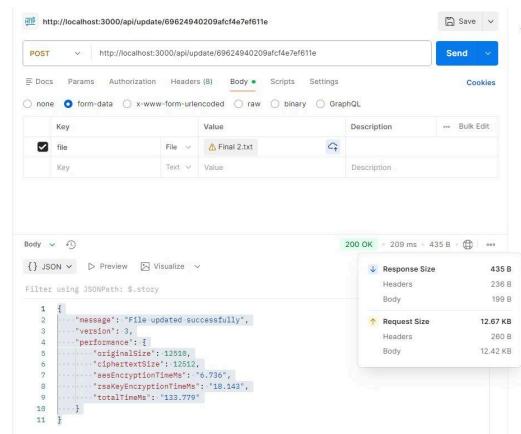
teks kecil-2.txt
(Version 1)
12.2KB



teks kecil-2.txt
(Version 2)
modified paragraph
12.2KB



teks kecil-2.txt
(Version 3)
added text
12.2KB



dokumen-sedang.docx
(version 1)
444KB

The image displays two side-by-side screenshots of a REST client application, likely Postman, demonstrating the upload of a file named "Modul8_HasanYusufMuizz_010.docx".

Left Screenshot: Shows the request configuration for a POST request to `http://localhost:3000/api/upload`. The "Body" tab is selected, showing a "form-data" key named "file" with the value set to the chosen file. The response shows a 201 Created status with a total time of 177 ms and a response size of 475 B. The JSON response body is as follows:

```
1 {  
2   "message": "File uploaded securely",  
3   "fileId": "6964d21042b9ea7d81dbe7b2",  
4   "version": 1,  
5   "performance": {  
6     "originalSize": 454145,  
7     "ciphertextSize": 454160,  
8     "aesEncryptionTimeMs": "5.932",  
9     "rsaKeyEncryptionTimeMs": "15.580",  
10    "totalTimeMs": "113.665"  
11  }  
12 }
```

Right Screenshot: Shows the same request and response details. The response time breakdown is as follows:

Step	Time (ms)
Prepare	14.35
Socket Initialization	4.03
DNS Lookup	1.14
TCP Handshake	2
Waiting (TTFB)	167.07
Download	2.14
Process	0.36

dokumen-sedang.docx
(version 2) modified
text
444KB

The image displays two side-by-side screenshots of a REST API testing tool interface, likely Postman or similar, showing the results of a POST request to update a file.

Left Screenshot:

- Request URL:** `http://localhost:3000/api/update/6964d21042b9ea7d81dbe7b2`
- Method:** POST
- Body:** Form-data (selected), with a file named "Modul8_HasanYusufMuiz..." attached.
- Response:**
 - Status:** 200 OK
 - Time:** 183 ms
 - Size:** 437 B
 - Headers:** 236 B
 - Body:** 201 B
 - Request Size:** 444.18 KB
 - Headers:** 261 B
 - Body:** 443.93 KB

Right Screenshot:

- Request URL:** `http://localhost:3000/api/update/6964d21042b9ea7d81dbe7b2`
- Method:** POST
- Body:** Form-data (selected), with a file named "Modul8_HasanYusufMuiz..." attached.
- Response:**
 - Status:** 200 OK
 - Time:** 183 ms
 - Size:** 437 B
 - Headers:** 236 B
 - Body:** 201 B
 - Request Time:** 182.96 ms
 - Performance Breakdown:**
 - Prepare: 16.13 ms
 - Socket Initialization: 2.62 ms
 - DNS Lookup: 0.25 ms
 - TCP Handshake: 1 ms
 - Waiting (TTFB): 175.86 ms
 - Download: 3.50 ms
 - Process: 0.24 ms

dokumen-sedang.docx
(version 4) modified
image
444KB

The image displays two side-by-side screenshots of the Postman API Network interface, both showing a POST request to `http://localhost:3000/api/update/6964d21042b9ea7d81dbe7b2`.

Left Screenshot:

- Body:** Form-data, file selected.
- Response:** Status 200 OK, Response Size: 437 B, Request Size: 444.21 KB.
- Code:**

```
1 {  
2     "message": "File updated successfully",  
3     "version": 4,  
4     "performance": {  
5         "originalSize": 454313,  
6         "ciphertextSize": 454320,  
7         "aesEncryptionTimeMs": "0.833",  
8         "rsaKeyEncryptionTimeMs": "25.528",  
9         "totalTimeMs": "181.856"  
10    }  
11 }
```

Right Screenshot:

- Body:** Form-data, file selected.
- Response:** Status 200 OK, Response Time: 270.87 ms.
- Code:**

```
1 {  
2     "message": "File updated successfully",  
3     "version": 4,  
4     "performance": {  
5         "originalSize": 454313,  
6         "ciphertextSize": 454320,  
7         "aesEncryptionTimeMs": "0.833",  
8         "rsaKeyEncryptionTimeMs": "25.528",  
9         "totalTimeMs": "181.856"  
10    }  
11 }
```

LAND.jpg 3MB

http://localhost:3000/api/upload

POST http://localhost:3000/api/upload?file

Body

Key: file Value: LAND.jpg

Response Size: 478 B Headers: 241 B Body: 237 B Request Size: 3.44 MB Headers: 242 B Body: 3.44 MB

```
1 {
2     "message": "File uploaded securely",
3     "fileId": "69e244209afc4ef0f53d",
4     "version": 1,
5     "performance": {
6         "originalSize": 3603861,
7         "ciphertextSize": 3603872,
8         "aesEncryptionTimeMs": "15.496",
9         "rsaKeyEncryptionTimeMs": "14.856",
10        "totalTimeMs": "110.692"
11    }
12 }
```

http://localhost:3000/api/upload

POST http://localhost:3000/api/upload?file

Body

Key: file Value: LAND.jpg

Response Time

- Prepare: 12.27 ms
- Socket Initialization: 1.31 ms
- DNS Lookup: 0.12 ms
- TCP Handshake: 0 ms
- Waiting (TTFB): 14.313 ms
- Download: 1.57 ms
- Process: 0.09 ms

201 Created 147 ms 478 B

```
1 {
2     "message": "File uploaded securely",
3     "fileId": "69e244209afc4ef0f53d",
4     "version": 1,
5     "performance": {
6         "originalSize": 3603861,
7         "ciphertextSize": 3603872,
8         "aesEncryptionTimeMs": "15.496",
9         "rsaKeyEncryptionTimeMs": "14.856",
10        "totalTimeMs": "110.692"
11    }
12 }
```

JCO.jpg 3MB

http://localhost:3000/api/upload

POST http://localhost:3000/api/upload?file

Body

Key: file Value: JCO.jpg

Response Size: 478 B Headers: 241 B Body: 237 B Request Size: 3.01 MB Headers: 242 B Body: 3.01 MB

```
1 {
2     "message": "File uploaded securely",
3     "fileId": "69e244209afc4ef0f140",
4     "version": 1,
5     "performance": {
6         "originalSize": 3150782,
7         "ciphertextSize": 3150784,
8         "aesEncryptionTimeMs": "12.629",
9         "rsaKeyEncryptionTimeMs": "19.087",
10        "totalTimeMs": "199.080"
11    }
12 }
```

http://localhost:3000/api/upload

POST http://localhost:3000/api/upload?file

Body

Key: file Value: JCO.jpg

Response Time

- Prepare: 12.26 ms
- Socket Initialization: 2.35 ms
- DNS Lookup: 1.30 ms
- TCP Handshake: 1 ms
- Waiting (TTFB): 301.60 ms
- Download: 1.75 ms
- Process: 0.17 ms

201 Created 309 ms 478 B

```
1 {
2     "message": "File uploaded securely",
3     "fileId": "69e244209afc4ef0f140",
4     "version": 1,
5     "performance": {
6         "originalSize": 3150782,
7         "ciphertextSize": 3150784,
8         "aesEncryptionTimeMs": "12.629",
9         "rsaKeyEncryptionTimeMs": "19.087",
10        "totalTimeMs": "199.080"
11    }
12 }
```

Tipe Data	WAKTU ENKRIPSI (MS)	UKURAN CIPHERTEXT	WAKTU DOWNLOAD (ms)	OVERHEAD RSA (%)
teks kecil.txt (version 1) 2.18KB	aesEncryptionTimeMs": "3.841 rsaKeyEncryptionTimeMs": "13.162"	2208	2.22	$(13.162 / 111.911) \times 100 = 11.8\%$
teks kecil.txt (version 2) 2.18KB	aesEncryptionTimeMs": "4.649 rsaKeyEncryptionTimeMs": "14.864	2208	1.86	$(14.864 / 120.195) \times 100 = 12.4\%$
teks kecil.txt (version 3) 2.18KB	aesEncryptionTimeMs": "3.829 rsaKeyEncryptionTimeMs": "13.447	3120	3.71	$(13.447 / 96.508) \times 100 = 13.9\%$
teks kecil-2.txt (version 1) 12.2KB	aesEncryptionTimeMs": "3.645 rsaKeyEncryptionTimeMs": "12.645	12480	1.62	$(12.645 / 76.286) \times 100 = 16.6\%$
teks kecil-2.txt (version 2) 12.2KB	aesEncryptionTimeMs": "5.839 rsaKeyEncryptionTimeMs": "12.146	12496	2.15	$(12.146 / 114.898) \times 100 = 10.6\%$
teks kecil-2.txt (version 3) 12.2KB	aesEncryptionTimeMs": "6.736 rsaKeyEncryptionTimeMs": "18.143	12512	2.48	$(18.143 / 133.779) \times 100 = 13.6\%$
dokumen-sedang.docx (version 1) 444KB	aesEncryptionTimeMs": "5.932 rsaKeyEncryptionTimeMs": "15.580	454160	2.14	$(15.580 / 113.665) \times 100 = 13.7\%$
dokumen-sedang.docx (version 2) 444KB	aesEncryptionTimeMs": "6.720 "rsaKeyEncryptionTimeMs": "21.433	454288	3.50	$(21.433 / 142.527) \times 100 = 15.0\%$
dokumen-sedang.docx (version 4) 444KB	aesEncryptionTimeMs": "8.033 rsaKeyEncryptionTimeMs": "25.528	454320	5.19	$(25.528 / 181.856) \times 100 = 14.0\%$
LAND.jpg 3MB	aesEncryptionTimeMs": "15.496 rsaKeyEncryptionTimeMs": "14.856	3603872	1.57	$(14.856 / 110.692) \times 100 = 13.4\%$
JCO.jpg 3MB	aesEncryptionTimeMs": "12.629 rsaKeyEncryptionTimeMs": "19.087	3156784	1.75	$(19.087 / 199.080) \times 100 = 9.6\%$

NAMA FILE	File decrypt hasil download
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FINAL 2.docx
(version 3)

The screenshot shows a browser-based API testing interface. On the left, there's a sidebar with tabs for 'Collections', 'Environments', 'History', and 'Flows'. The main area has tabs for 'Overview', 'GET http://localhost:3000/api/download/69624a8f209afcf4e7ef612a', 'Params', 'Authorization', 'Headers (8)', 'Body', 'Scripts', and 'Settings'. Under 'Headers (8)', there's a table with columns 'Key' and 'Value'. Under 'Body', it says 'Raw' and 'Visualize'. A warning message at the top of the body area says 'This document contains many invisible unicode characters' with a link to 'Disable Invisible Highlight'. Below this, the response content is shown as a large block of redacted hex values, starting with '1 PK' and ending with '24 0A'. At the bottom of the interface, there are tabs for 'Cloud View', 'Console', and 'Terminal', along with various status indicators like '200 OK', '190 ms', and '427.92 KB'.

final.txt
(version 3)

final 2.txt
(version 3)

LAND.jpg	
JCO.jpg	