Cyle Roberts CS 485-01 Fall 2024 Encryption Assignment 1 September 12 2024

preconditions... I used the included logins.txt file and provided key/iv.

Step 1(ECB changed 1st bit):

- 1. The first 16 bytes were lost. The rest of the file was the same after the changes.
- 2. ECB is a block cipher that does not use any type of chaining. So only the block that was modified was affected.

3.

(altered ciphertext)

```
cipher.bin ×
          logins.txt × decrypedECB.txt ×
                                                                  M...4+c4e91sá.4.
00000000
                  1D 05 BD C5 63 D0 65 39 31 73 A0 11 D0 1D
                    70 57 B3 40 34 28 8B 38 60 90 BC
                                                                  L¼pW @4(ï8`É┛.∥
00000010
00000020
           E4 23 9E 46 F2 9C 48 13 23 87 9F AA FC 6B 21
                                                             2D
                                                                  Σ#PF≥£H.#cf¬nk!-
00000030
           95 FE 24 19 7D 81 D6 0E DD 75 2F AF 88 11 C5 C0
                                                                  ò•$.}ü<sub>П</sub>.∐u/»ê.+└
                                                                  ù■]òC,j0èπnMVpj.
           97 DF 5D 95 43 2C 6A 30 8A D2 6E 4D 56 70
00000040
                                                         6A
                                                             10
                 6C A7 11 B0 52 EB 93 C6 E7 96 3D A3
00000050
                                                                  na l°. NRδô ⊨τû=ú}τ
00000060
           FE 40 65 61 0C 28 43 0B BB 30 E7 70 19 EE 6A 50
                                                                  •@ea.(C.<sub>¶</sub>0τρ.εjP
00000070
           5F 65 71 3B 3D 56 A6 93 4B F7 2B 7F
                                                  7C D7 1C
                                                                  _eq;=VªôK≈+△|#."
           F7 6E 2C 32 77 41 77 3D A1 67 8F C4 67 15 39 EA
00000080
                                                                  ≈n,2wAw=ígÅ—g.9Ω
00000090
           1A FA 77 1A 76 53 44 31 97 48 9C BF 52 7B F0
                                                                  . ·w. vSD1ùH£¬R{≡°
           AC 8E 9B 42 D5 48 03 33 30 3E 83 B4 00 17 2A
                                                                  ¼Ä¢B ⊧H.30>â-|..*ù
000000A0
                                                                  Fôû∘Ì .—b LdÑ.dâl
000000B0
           46 93 96 A7 49 BD 18 C4 62 C0 64 A5 0F 64 83 6C
000000C0
                    14 9D 2C 8E EA 11 4F 71 0C 19 C9
                                                                  ·F...¥,ÄΩ.0q...<sub>[</sub>>—
000000D0
           4F C2 49 3A 78 98 FE 15 33 A0 1C CB 84 F9 B5 91
                                                                  O⊤I:xÿ•.3á.<del>"</del>ä·•|æ
           36 4A BB 15 85 BB 14 AA 3C 59 C4 7B A6 E5 07 6D
000000E0
                                                                  6J<sub>¶</sub>.à<sub>¶</sub>.¬<Y—{aσ.m
000000F0
           68 30 D6 80 1A BF 42 56 27 DF 2C 43 0B D5 2D
                                                            7F
                                                                  h0 гÇ.¬ BV'■, C. F-△
                                                                  a<sup>⊥</sup>[.á?c l\lambda100]...
           61 D0 5B 10 A0 3F 63 C0 CC CE 31 ED 51 F5 10
00000100
                                                             06
           A9 4E 30 CF 6F 72 85 46 35 20 5C 03 AB 7A A6
                                                                  -N0≟oràF5 \.½zª
00000110
                                                             20
00000120
           AA 56 29 94 5D EE 88 B7
                                     56 62 0D 3A 23 C0 42
                                                                  ¬V)ö]εêπVb.:#LB.
           85 2E 7A 69 55 0C FD 95 44 1E FO 77 19 02 CO AC
                                                                  à.ziU.²òD.≡w.. L¼
00000130
           AE 7F C6 EA 04 EA B1 4D 2D 41 F4 44 9C 0A E9
                                                                  «△ |Ω.Ω\\M-A |D£.ΘN
00000140
           68 32 44 F2 E4 9F CE 2F
                                     DE 9C AC 2E 75 1C 9E
                                                                  h2D≥Σf‡/ L¼.u.₽¥
00000150
00000160
           42 C9 51 FD B1 8B 6E 6F 20 BA B7 46 B6 6E 1A 17
                                                                  BrQ²∭ïno ∏r-n.
           30 63 04 C7 68 42 3D 8F
                                                                  0c. hB=A=c=°2μú+
00000170
                                     CD 63 3D A7 32 E6 A3 D8
                                                                  .8ô.*ì.ì..¼`¢<del>|</del>>5
           OC 38 93 11 2A 8D 1E 8D 05 04 AC 60 9B D7 3E 35
00000180
                                                                  åOÇ -.≡.<sup>⊥</sup>½'¬φÜφ
                        2D 13 F0 12 C1 B2 AB 27 AA ED 9A
00000190
                                                                  ÖL±.+niGg FFTF14b±
           99 C0 F1 16 C5 FC 69 47 67 D5 C9 C2 46 AC 62 F1
000001A0
                                                                  v—.z⊨îû∫i.<sub>∏</sub>.ÆïS÷
              C4 16 7A C6 8C 96 F5 69
                                        18 D6 00 92 8B 53 F6
000001B0
           4A C7 A4 22 DC C1 E8 17 80 C6 DE 40 AF 80 56 12
                                                                  J⊩ñ"<u>-</u>- Φ.Ç⊧ @»ÇV.
000001C0
000001D0
           50 AF CB 9C EB 40 29 B7
                                     2B 8A 85 A6 9F F4 81 8C
                                                                  P»π£δ@)π+èàªf∫üî
                                                                  ù'éf%Ba<sub>∏</sub>△)Pm..__|
           97 27 82 66 25 42 61 B7 7F 29 50 6D 2E 13 C2
000001E0
                                                            7C
           32 52 57 A7 23 FD 63 63 F0 4D 0E 74 21 97 1A
                                                                  2RW°#°cc≡M.t!ù.C
000001F0
                                                                  .è<sup>_2</sup>Ñdây<u></u> ≥ wI\∥~
00000200
           05 8A CF FD A5 64 83 79 B2 F3 D4 EC 49 5C BA 7E
00000210
           C7 33 2D 58 50 88 55 E7 81 0F DB 3B F2 29 C9 1E
                                                                  ⊩3-XPêUτü.■;≥) ϝ.
00000220
           7B A4 42 6A E0 74 81 84 24 96 31 13 BA 09 B2 FA
                                                                  {ñBjαtüä$û1.∥.∭∙
                                                                  ╗┍╔Ñ₊╧‥BêC╬┼∖∖Ä&
00000230
              FC C9 A5 2E CF 1E 05 42 88 43 CE C5 B0 8F 26
           C4 24 65 D1 E4 95 E9 87
                                     67 62 F7 8A E4 0A 99
00000240
                                                                  –$e<del>_</del>ΣòΘçgb≈èΣ.Ö;
                                                                  òo╦/Lτ┏─┣ळÄ¥G 🛖
00000250
           95 7F CB 2F 4C E7 C9 C4 C7 C6 EC 8E 9D 47 C3 DC
                                     08 15 84 A5 E4 AB B3
00000260
                    88 A8 89 F2 6F
                                                             2D
                                                                  kVZê¿ë≥o..äÑΣ½|-
                                                                  \\Dk≈.||-w7..+.∞Ö
              44 6B F7 02 DE C6 A9 77 37 12 01 C5 1E EC 99
00000270
                        84 22 F0 21 C0 C8 40 58 C9 1A E9 E4
                                                                  ≤⊫·±ä"≡!└╚@X╓.0Σ
00000280
              CC F9 F1
00000290
           C7 8A 27 E1 FB 70 F7 C4 34 84 4E 4D 37 C8 90 FC
                                                                  lè'ß√p≈—4äNM7∐Én
000002A0
           75 20 7B 99 35 76 5B F2 32 4C 2B D6 2C 90 6B
                                                            23
                                                                  u {Ö5v[≥2L+π,Ék#
                                                                  Ωn△RI.≡ -: |-. ≈==$...
000002B0
           EA FC 7F 52 49 0E F0 C3 3A C7 0F F7 CB 24 0E 08
```

(After decryption)

```
logins.txt × decrypedECB.txt ×
           6A A2 D6 F2 27 E4 BE 21 89 78 04 A6 52 BF 5A 45
                                                              jór≥'Σ-!ëx.ªR¬ZE
00000000
00000010
          74 79 20 20 20 20 31 39 35 2E 32 31 39 2E 31 36
                                                              ty
                                                                   195.219.16
          36 2E 35 33 20 20 20 54 75 65 20 53 65 70 20 32
00000020
                                                              6.53
                                                                    Tue Sep 2
00000030
          36 20 30 32 3A 35 31 20 2D 20 30 32 3A 35 31 20
                                                              6 02:51 - 02:51
00000040
          20 28 30 30 3A 30 30 29 0A 61 64 6D 69 6E 20 20
                                                               (00:00).admin
          20 20 73 73 68 3A 6E 6F 74 74 79 20 20 20 20 31
                                                                ssh:notty
00000050
00000060
          39 35 2E 32 31 39 2E 31 36 36 2E 35 33 20 20 20
                                                              95.219.166.53
          54 75 65 20 53 65 70 20 32 36 20 30 32 3A 35 31
                                                              Tue Sep 26 02:51
00000070
          20 2D 20 30 32 3A 35 31 20 20 28 30 30 3A 30 30
                                                               - 02:51 (00:00
00000080
00000090
           29 0A 61 64 6D 69 6E 20 20 20 20 73 73 68 3A 6E
                                                              ).admin
                                                                         ssh:n
          6F 74 74 79 20 20 20 20 31 30 34 2E 32 32 33 2E
                                                                      104.223.
000000A0
                                                              otty
          31 32 33 2E 39 38 20 20 20 54 75 65 20 53 65 70
                                                              123.98
000000B0
                                                                       Tue Sep
          20 32 36 20 30 32 3A 35 31 20 2D 20 30 32 3A 35
000000C0
                                                               26 02:51 - 02:5
          31 20 20 28 30 30 3A 30 30 29 0A 61 64 6D 69 6E
                                                              1 (00:00).admin
000000D0
          20 20 20 20 73 73 68 3A 6E 6F 74 74 79 20 20 20
                                                                  ssh:notty
000000E0
          20 31 30 34 2E 32 32 33 2E 31 32 33 2E 39 38 20
                                                               104.223.123.98
000000F0
          20 20 54 75 65 20 53 65 70 20 32 36 20 30 32 3A
00000100
                                                               Tue Sep 26 02:
          35 31 20 2D 20 30 32 3A 35 31 20 20 28 30 30 3A
00000110
                                                              51 - 02:51 (00:
          30 30 29 0A 61 64 6D 69 6E 20 20 20 20 73 73 68
                                                              00).admin
00000120
                                                                           ssh
          3A 6E 6F 74 74 79 20 20 20 20 31 39 32 2E 34 32
                                                              :notty
00000130
                                                                        192,42
          2E 31 31 36 2E 31 36 20 20 20 20 54 75 65 20 53
00000140
                                                              .116.16
                                                                        Tue S
00000150
          65 70 20 32 36 20 30 32 3A 35 31 20 2D 20 30 32
                                                              ep 26 02:51 - 02
          3A 35 31 20 20 28 30 30 3A 30 30 29 0A 61 64 6D
                                                              :51 (00:00).adm
00000160
           69 6E 20 20 20 20 73 73 68 3A 6E 6F 74 74 79 20
00000170
                                                                    ssh:notty
                                                              in
          20 20 20 31 39 32 2E 34 32 2E 31 31 36 2E 31 36
                                                                 192.42.116.16
00000180
00000190
          20 20 20 20 54 75 65 20 53 65 70 20 32 36 20 30
                                                                  Tue Sep 26 0
                                                              2:51 - 02:51 (0
000001A0
          32 3A 35 31 20 2D 20 30 32 3A 35 31 20 20 28 30
          30 3A 30 30 29 0A 70 69 20 20 20 20 20 20 20 73
                                                              iq.(00:0
000001B0
                                                                             S
          73 68 3A 6E 6F 74 74 79 20 20 20 20 31 33 36 2E
000001C0
                                                              sh:notty
                                                                          136.
          33 32 2E 32 31 38 2E 31 36 30 20 20 20 4D 6F 6E
000001D0
                                                              32.218.160
                                                                           Mon
000001E0
          20 53 65 70 20 32 35 20 31 30 3A 31 34 20 2D 20
                                                               Sep 25 10:14 -
          31 30 3A 31 34 20 20 28 30 30 3A 30 30 29 0A 70
                                                              10:14 (00:00).p
000001F0
          69 20 20 20 20 20 20 20 73 73 68 3A 6E 6F 74 74
00000200
                                                                      ssh:nott
          79 20 20 20 20 31 33 36 2E 33 32 2E 32 31 38 2E
00000210
                                                                   136.32.218.
                                                              У
00000220
          31 36 30 20 20 20 4D 6F 6E 20 53 65 70 20 32 35
                                                                   Mon Sep 25
                                                              160
           20 31 30 3A 31 34 20 2D 20 31 30 3A 31 34 20 20
                                                               10:14 - 10:14
00000230
                                                              (00:00).pi
00000240
          28 30 30 3A 30 30 29 0A 70 69 20 20 20 20 20 20
00000250
          20 73 73 68 3A 6E 6F 74 74 79 20 20 20 20 31 33
                                                               ssh:notty
                                                                            13
           36 2E 33 32 2E 32 31 38 2E 31 36 30 20 20 20 4D
                                                              6.32.218.160
00000260
          6F 6E 20 53 65 70 20 32 35 20 31 30 3A 31 34 20
                                                              on Sep 25 10:14
00000270
          2D 20 31 30 3A 31 34 20 20 28 30 30 3A 30 30 29
                                                              - 10:14 (00:00)
00000280
00000290
          0A 70 69 20 20 20 20 20 20 20 73 73 68 3A 6E 6F
                                                              .pi
                                                                        ssh:no
          74 74 79 20 20 20 20 31 33 36 2E 33 32 2E 32 31
000002A0
                                                              tty
                                                                     136.32.21
          38 2E 31 36 30 20 20 20 4D 6F 6E 20 53 65 70 20
000002B0
                                                              8.160
                                                                      Mon Sep
```

Step 2(CBC 1st bit):

- 1. The first block was completely corrupted and part of the second block was completely corrupted.
- 2. Only 2 blocks are affected because the XOR operation uses the previous block of the cipher text. I did not change the 2^{nd} block so the next XOR operation doesn't use text that has been changed.

Step 3(CBC 129th bit):

- 1. The block containing 129th bit and also the next byte were corrupted. The rest of the data was fine.
- 2. For similar reasons to the previous step. It only affects the current block and xor operations in the next block that uses the bit that was changed were affected.

Step 4(CBC last bit):

- 1. All of the plain text was recovered besides last 2 bytes of plain text.
- 2. The last 2 bytes of data were blocked alone with padding so none of the other plain text was affected during the decryption. I did get an error message that said bad decryption.

(changed encrypted file) changed 7F to 7E

```
000131E0 54 C3 BE 6D 52 7D CB F2 8A B9 78 97 3D 04 BA AE
                                                    T I mR} = è | xù = . | «
 000131F0 32 4E 46 E4 93 98 1E 80 6A 48 6A A7 D0 A0 FF 72 2NFΣôÿ.CjHj∘. Lá r
 00013210 B6 37 A8 1F 61 CC 57 0C 32 10 79 17 C9 71 2B 3D
                                                    "è≡fuPA.èGÑ¿)0\\ñ
 00013220 OB 8A F0 9F 75 9E 41 05 8A 47 A5 A8 29 E9 B0 A4
                                                    ÿÿW.?\\.≤||£=|Ç_=|.b
 00013230 98 98 57 1D 3F B0 10 F3 BA 9C BE 80 5F BE 0A 62
                                                   3'nZ±D╚½Ÿ±:}'²x~
 00013240 33 F7 83 5A F1 44 C8 AB 59 F1 3A 7D 27 FD 78 7E
00013250
(file end after decryption)
                                                    T⊣mR}=è╣xù=.∥«
 000131E0 54 C3 BE 6D 52 7D CB F2 8A B9 78 97 3D 04 BA AE
                                                    2NFΣôÿ.ÇjHj∘lá″r
 000131F0 32 4E 46 E4 93 98 1E 80 6A 48 6A A7 D0 A0 FF 72
 -|7¿.a|₩.2.y.rq+=
 00013210 B6 37 A8 1F 61 CC 57 0C 32 10 79 17 C9 71 2B 3D
                                                    .è≡fu₱A.èGÑ;)0\\ñ
 00013220 OB 8A F0 9F 75 9E 41 05 8A 47 A5 A8 29 E9 B0 A4
 00013230 98 98 57 1D 3F B0 10 F3 BA 9C BE 80 5F BE 0A 62
                                                    ÿÿW.?\\.≤||£=|Ç_=|.b
                                                    3'nZ±D╚½Ÿ±:}'²x~
         33 F7 83 5A F1 44 C8 AB 59 F1 3A 7D 27 FD 78 7E
 00013240
 00013250
```

Step 5(CFB 1st bit):

- 1.It changed the first character and the 2nd block of characters. The rest of the text was not lost.
- 2. In CFB, the second block is dependent upon the previous block so since the first block was altered then the second block was completely changed. Only the first bit of the first block was changed because the IV was not changed and the rest of the block is not dependent upon the other bytes.

Step 6(CFB 129th bit):

- 1.The first block of data was unchanged and also 15 out of 16 bytes of data in the second block and the rest of the file was unchanged.
- 2. As the last step it was because the previous blocks are used for the IV for the next line of encryption. So only the next block and the singular byte that was changed are affected.

(changed encrypted file) 3E to BE

```
000000000 54 46 C8 C4 5E 97 12 4A 37 BF 9B F5 F9 75 67 2B TF \^\u00e4.J7\cdot\u00e4\u00e3\u00e4.2\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00
```

(decrypted changed file)

```
00000000
          61 64 6D 69 6E 20 20 20 20 73 73 68 3A 6E 6F 74
                                                            admin
                                                                     ssh:not
          F4 79 20 20 20 20 31 39 35 2E 32 31 39 2E 31 36
00000010
                                                             ſу
                                                                  195.219.16
00000020
          C6 7D 20 21 9A 5C 0F 1B 5C 49 B2 B7 8D B2 61 34
                                                             ⊧} !Ü\..\I πì a4
                                                            6 02:51 - 02:51
          36 20 30 32 3A 35 31 20 2D 20 30 32 3A 35 31 20
00000030
00000040
          20 28 30 30 3A 30 30 29 0A 61 64 6D 69 6E 20 20
                                                             (00:00).admin
```

Step 7(CFB Last bit):

- 1. The end of line character was lost and the rest of the file was intact.
- 2. Like the last since there was not another line then it did not affect any character besides the last byte which represented the line feed character.

Step 8(OFB 1st bit):

- 1. Only the corresponding byte what contained the bit that was changed was affected and the rest of the file was the same as the file before encryption/decryption.
- 2. Since it acts for of a stream cipher then corresponding bits are changed.

Step 9(OFB 129th bit):

- 1. Only the corresponding byte what contained the bit that was changed was affected and the rest of the file was the same as the file before encryption/decryption.
- 2. Since it acts for of a stream cipher then corresponding bits are changed.

step 10(OFB last bit):

- 1. Only the last line feed was lost. The rest of the file was the same.
- 2. Since it acts for of a stream cipher then corresponding bits are changed.3.

(changed encrypted file) changed from 77 to 76

```
!<sup>+2</sup>H;∩TÖZ‱ä«sε÷4
000131F0
           21 D8 FD 48 3B EF 54 99 5A B1 84 AE 73 EE F6 34
                                                              .∔.kvfun¢YÄÅ∜Ær@
           OF C5 OD 6B 76 66 75 FC 9B 59 8E 8F B9 92 D6 40
00013200
                                                              a.±..b ΓΩ¬.ì?2σ•
          A6 1C F1 03 2E 62 B9 DA EA AA 1E 8D 3F 32 E5 FE
00013210
                                                              à= ϝqx·.. bo£= oπG
           85 3D D5 71 78 FA 0C 05 DD 62 7F 9C B5 7F D2 47
00013220
00013230
           8D 20 6C E3 65 A0 13 F6 5A 08 81 EF 91 21 C6 DC
                                                              i lπeá.÷Z.ü∩æ! =
00013240
           C8 76 +
```

(After decrypting changed encrypted file) 0B should be 0A for linefeed.

```
• 20 20 20 31 33 2L 3311.110LLV
                       Line Tabulation 00013180 37 34 2E 37 32 2E 32 32 39 20 20 20 20 46 72 74.72.229
UTF-8 Character
                                  00013190 69 20 53 65 70 20 20 31 20 31 30 3A 34 34 20 2D i Sep 1 10:44 -
            \bigcirc
Binary
                                   000131A0 20 31 30 3A 34 34 20 20 28 30 30 3A 30 30 29 0A 10:44 (00:00).
       Data Inspector (Big-endian)
                                   000131B0
                                             72 6F 6F 74 20 20 20 20 20 73 73 68 3A 6E 6F 74 root
                                                                                                     ssh:not
                                   000131C0
                                             74 79 20 20 20 20 37 33 2E 37 34 2E 37 32 2E 32
                                                                                             ty
                                   000131D0 32 39 20 20 20 20 20 46 72 69 20 53 65 70 20 20
                                                                                                   Fri Sep
                                                                                             29
                                   000131E0 31 20 31 30 3A 34 34 20 2D 20 31 30 3A 34 34 20 1 10:44 - 10:44
                                   000131F0 20 28 30 30 3A 30 30 29 0A 72 6F 6F 74 20 20 20 (00:00).root
                                   00013200 20 20 73 73 68 3A 6E 6F 74 74 79 20 20 20 20 37
                                   00013210 33 2E 37 34 2E 37 32 2E 32 32 39 20 20 20 20 20 3.74.72.229
                                   00013220
                                            46 72 69 20 53 65 70 20 20 31 20 31 30 3A 34 34 Fri Sep 1 10:44
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                                            20 2D 20 31 30 3A 34 34 20 20 28 30 30 3A 30 30
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