

BURP SUITE FOR PENTESTER ENCODER & DECODER

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Introduction

Burpsuite Decoder can be said as a tool which is used for transforming encoded data into its real form, or for transforming raw data into various encoded and hashed forms. This tool is capable of recognizing several encoding formats using defined techniques. Encoding is the process of putting a sequence of character's (letters, numbers, punctuation, and symbols) into a specialized format which is used for efficient transmission or storage. Decoding is the opposite process of encoding the conversion of an encoded format back into the original format. Encoding and decoding can be used in data communications, networking, and storage.

Today we are discussing the **Decoder** Option of 'Burp Suite'. Burp Suite is a tool which is used for testing Web application security. Its various tools work seamlessly together to support the entire testing process, from initial mapping and analysis of an application's attack surface, through to finding and exploiting security vulnerabilities. This tool is written in JAVA and is developed by PortSwigger Security.

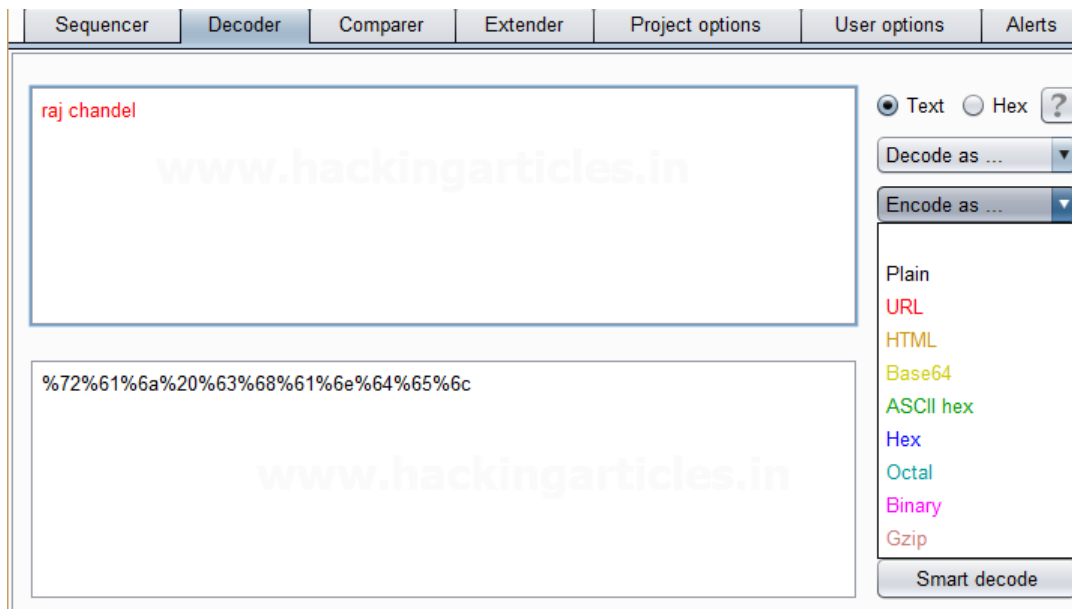
There are 9 types of decoder format in Burp Suite:

- **Plain text**
- **URL**
- **HTML**
- **Base64**
- **ASCII Hex**
- **Hex**
- **Octal**
- **Binary**
- **Gzip**

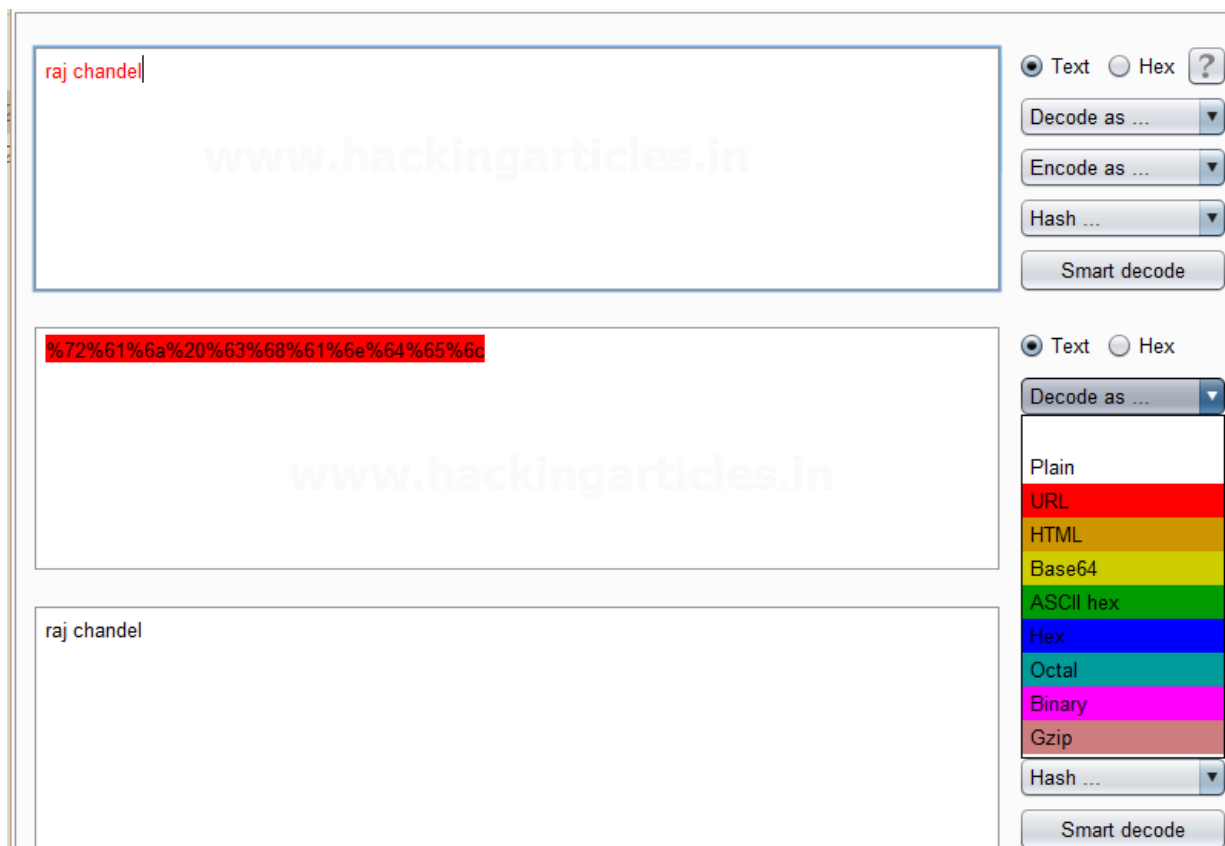
URL Encoder & Decoder

When you will explore decoder option in burp suite you will observe two sections left and right. The left section is further divided into two and three sections for encoding and decode option respectively. The right section contains the function tab for encoding and decodes option. And if you will observe given below image you can notice there are two radio buttons for selecting the type of content you want to encode or decode.

Enable the radio button for text option and then we can give any input in the box to be encoded, here we have given **Raj chandel** as an input as shown in the image. After that click on the **Encoded as** an option and select **URL field** from given list as shown in the image. We will get the **encoded result in URL format** in the second box as shown in the image.



We can directly decode the **Encoded URL Text** by clicking on the **Decoded as** as an option and selecting the **URL field** from the given list of options as shown in the image. This will **decode the encoded URL text** into **plain text** in the third box as shown in the image.



HTML Encoder & Decoder

Repeat the same and give any input in the first box to be encoded, here we have given **Raj chandel** as an input as shown in the image. After that click on the **Encoded as** as an option and select **HTML field** as shown in the image. We will get the **encoded result** in **HTML format** in the second box as shown in the image.

Repeater Sequencer Decoder Comparer Extender Project options User options Alerts

raj chandel

Decode as ...

Encode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Smart decode

raj chandel

We can directly decode the **Encoded HTML Text** by clicking on the **Decoded as** as an option and selecting the **HTML field** as shown in the image. This will **decode** the **encoded HTML text** into **plain text** in the third box as shown in the image.

raj chandel

Decode as ...

Encode as ...

Hash ...

Smart decode

raj chandel

Decode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Hash ...

Smart decode

raj chandel

Base64 Encoder & Decoder

Repeat the same process and give any input in the first box to be encoded, here we have given **Raj chandel** as an input as shown in the image. After that click on the **Encoded as** an option and select **Base64 field** as shown in the image. We will get the **encoded result** in **Base64 format** in the second box as shown in the image.

Repeater Sequencer Decoder Comparer Extender Project options User options Alerts

raj chandel

cmFqIGNoYW5kZWw=

Text Hex ?

Decode as ...

Encode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Smart decode

We can directly decode the **Encoded Base64 Text** by clicking on the **Decoded as** an option and selecting the **Base64 field** as shown in the image. This will **decode** the **encoded Base64 text** into **plain text** in the third box as shown in the image.

raj chandel

cmFqIGNoYW5kZWw=

raj chandel

Text Hex ?

Decode as ...

Encode as ...

Hash ...

Smart decode

Text Hex

Decode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Hash ...

Smart decode

ASCII Hex Encoder & Decoder

Again repeat the same process and give any input in the first box to be encoded, here we have given **Raj chandel** as an input as shown in the image. After that click on the **Encoded as** an option and select **ASCII Hex field** as shown in the image. We will get the **encoded result** in **ASCII Hex format** in the second box as shown in the image.

Repeater Sequencer Decoder Comparer Extender Project options User options Alerts

raj chandel

72616a206368616e64656c

Text Hex ?

Decode as ...

Encode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Smart decode

We can directly decode the **Encoded ASCII Hex Text** by clicking on the **Decoded as** the option and selecting **ASCII Hex field** as shown in the image. This will **decode** the **encoded ASCII Hex text** into **plain text** in the third box as shown in the image.

raj chandel

72616a206368616e64656c

raj chandel

Text Hex ?

Decode as ...

Encode as ...

Hash ...

Smart decode

Text Hex

Decode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Hash ...

Smart decode

Hex Encoder & Decoder

Repeat same as above and give any input in the first box to be encoded, here we have given **Raj chandel 123456789** as an input as shown in the image. After that click on the **Encoded as** the option and select **Hex option** as shown in the image. We will get the **encoded result** in **Hex format** in the second box as shown in the image.

The screenshot shows a web application interface for encoding and decoding text. At the top, there is a navigation bar with tabs: Repeater, Sequencer, Decoder (selected), Comparer, Extender, Project options, User options, and Alerts. The main area contains two large text input boxes. The top box contains the text "raj chandel 123456789". The bottom box contains the text "raj chandel 75bcd15". To the right of the input boxes, there are two dropdown menus. The first dropdown is labeled "Decode as ..." and the second is labeled "Encode as ...". Below these dropdowns is a list of encoding/decoding options: Plain, URL, HTML, Base64, ASCII hex, Hex (selected), Octal, Binary, and Gzip. At the bottom right, there is a button labeled "Smart decode".

We can directly decode the **Encoded Hex Text** by clicking on the **Decoded as** the option and selecting the **Hex field** as shown in the image. This will **decode** the **encoded Hex text** into **plain text** in the third box as shown in the image.

raj chandel 123456789

www.hackingarticles.in

☒ Text
☐ Hex

?

Decode as ...

Encode as ...

Hash ...

Smart decode

raj chandel 75bcd15

www.hackingarticles.in

☒ Text
☐ Hex

Decode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Hash ...

Smart decode

r10j 12h10n222l 123456789

www.hackingarticles.in

☒ Text
☐ Hex

Decode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Hash ...

Smart decode

Octal Encoder & Decoder

Repeat again and give any input in the first box to be encoded, here we have given **Raj chandel 123456789** as an input as shown in the image. After that click on the **Encoded as** an option and select **Octal field** as shown in the image. We will get the **encoded result in Octal format** in the second box as shown in the image.

Repeater

Sequencer

Decoder

Comparer

Extender

Project options

User options

Alerts

raj chandel 123456789

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☒ Text
☐ Hex

?

Decode as ...

Encode as ...

Plain
URL
HTML
Base64
ASCII hex
Hex
Octal
Binary
Gzip

Smart decode

raj chandel 726746425

www.hackingarticles.in

We can directly decode the **Encoded Octal Text** by clicking on the **Decoded** as the option and selecting the **Octal field** as shown in the image. This will **decode** the **encoded Octal text** into **plain text** in the third box as shown in the image.

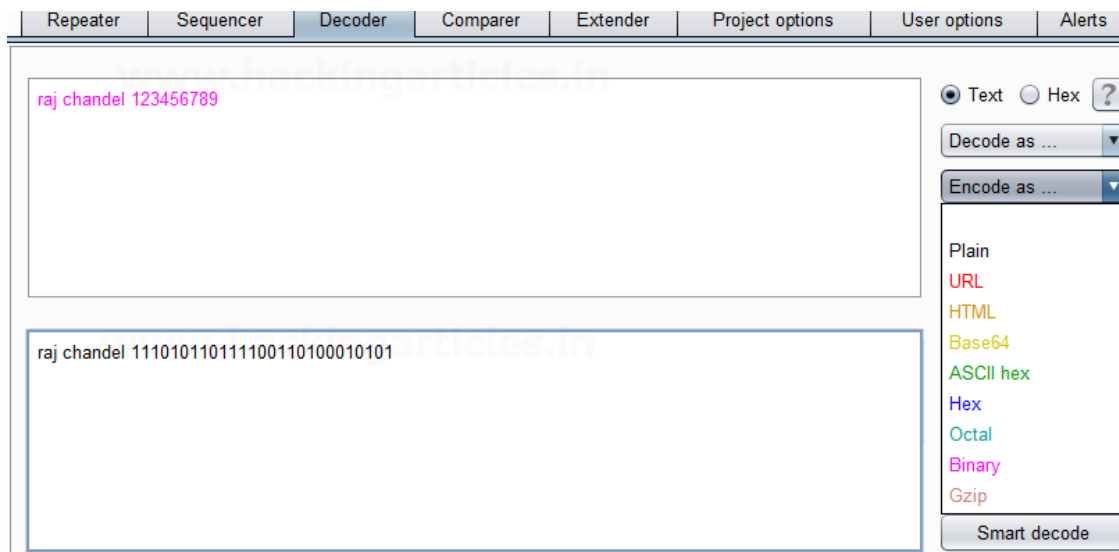
The image shows a web-based encoder/decoder tool with three input boxes and a control panel on the right. Each box contains the text "raj chandel 123456789" and a watermark "www.hackingarticles.in".

- Top box:** The input text is "raj chandel 123456789". The control panel on the right has "Text" selected, and the "Decode as ..." dropdown is set to "Octal".
- Middle box:** The input text is "raj chandel 726746425". The control panel on the right has "Text" selected, and the "Decode as ..." dropdown is set to "Octal".
- Bottom box:** The input text is "raj chandel 123456789". The control panel on the right has "Text" selected, and the "Decode as ..." dropdown is set to "Octal".

The control panel on the right includes radio buttons for "Text" and "Hex", a "Smart decode" button, and a "Decode as ..." dropdown menu. The dropdown menu is open in the middle and bottom boxes, showing options: Plain, URL, HTML, Base64, ASCII hex, Hex, Octal, Binary, and Gzip. The "Octal" option is highlighted in the middle box, and the "Binary" option is highlighted in the bottom box.

Binary Encoder & Decoder

Repeat the same and give any input in the first box to be encoded, here we have given **Raj chandel 123456789** as an input as shown in the image. After that click on the **Encoded** as an option and select **Binary field** as shown in the image. We will get the **encoded result** in **Binary format** in the second box as shown in the image.



We can directly decode the **Encoded Binary Text** by clicking on the **Decoded** as an option and selecting the **Binary** field as shown in the image. This will **decode** the **encoded Binary text** into **plain text** in the third box as shown in the image.



Gzip Encoder & Decoder

Give any input in the first box to be encoded, here we have given **Raj chandel** as an input as shown in the image. After that click on the **Encoded as** an option and select **Gzip field** as shown in the image. We will get the **encoded result** in **Gzip format** in the second box as shown in the image.

The screenshot shows a web application with a navigation bar at the top containing tabs: Repeater, Sequencer, Decoder, Comparer, Extender, Project options, User options, and Alerts. The 'Decoder' tab is active. The main interface is divided into two sections. The top section has a large text input box containing 'raj chandel 123456789'. To the right of this box are controls: radio buttons for 'Text' (selected) and 'Hex', a 'Decode as ...' dropdown, an 'Encode as ...' dropdown, a 'Hash ...' dropdown, and a 'Smart decode' button. The bottom section displays a hex dump of the encoded data. The hex dump consists of three rows of data, each with a line number (0, 1, 2) on the left, followed by pairs of hexadecimal digits, and then a corresponding ASCII representation on the right. The ASCII representation for the first row is '++++JIRH', for the second row is 'HikIiQ0426153-°', and for the third row is '++Ê++'. To the right of the hex dump are similar controls: radio buttons for 'Text' and 'Hex' (selected), and 'Decode as ...', 'Encode as ...', 'Hash ...', and 'Smart decode' buttons.

Line	Hex	ASCII
0	1f 8b 08 00 00 00 00 00 00 00 2b 4a cc 52 48 ce	++++JIRH
1	48 cc 4b 49 cd 51 30 34 32 36 31 35 33 b7 b0 04	HikIiQ0426153-°
2	00 87 97 ca 1c 15 00 00 00 -- -- -- -- -- --	++Ê++

We can directly decode the **Encoded Gzip Text** by clicking on the **Decoded as** an option and selecting the **Gzip field** as shown in the image. This will **decode** the **encoded Gzip text** into **plain text** in the third box as shown in the image.

raj chandel 123456789

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☒ Text
 ☐ Hex

Decode as ...

Encode as ...

Hash ...

Smart decode

0	1f	8b	08	00	00	00	00	00	00	00	2b	4a	cc	52	48	ce	□□□+JîRHî
1	48	cc	4b	49	cd	51	30	34	32	36	31	35	33	b7	b0	04	HîKîîQ0426153-°□
2	00	87	97	ca	1c	15	00	00	00	--	--	--	--	--	--	--	□□Ê□□

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raj chandel 123456789

☐ Text
 ☒ Hex

Decode as ...

Encode as ...

Hash ...

Smart decode

☐ Text
 ☒ Hex

Decode as ...

Plain

URL

HTML

Base64

ASCII hex

Hex

Octal

Binary

Gzip

Hash ...

Smart decode