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Level 3

Companies still fixing Heartbleed bug

17th April, 2014

<http://www.breakingnewsenglish.com/1404/140417-heartbleed.html>



Contents

The Article	2	Discussion (Student-Created Qs)	14
Warm-Ups	3	Language Work (Cloze)	15
Before Reading / Listening	4	Spelling	16
While Reading / Listening	5	Put The Text Back Together	17
Match The Sentences And Listen	6	Put The Words In The Right Order	18
Listening Gap Fill	7	Circle The Correct Word	19
Comprehension Questions	8	Insert The Vowels (a, e, i, o, u)	20
Multiple Choice - Quiz	9	Punctuate The Text And Add Capitals	21
Role Play	10	Put A Slash (/) Where The Spaces Are	22
After Reading / Listening	11	Free Writing	23
Student Survey	12	Academic Writing	24
Discussion (20 Questions)	13	Homework	25
		Answers	26

Please try Levels 0, 1 and 2 (they are easier).

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THE ARTICLE

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Many companies are trying to make their websites safe from a new Internet bug called Heartbleed. It is like a hole in the security of websites that hackers can use to get private information. The bug was in security software used by most Internet sites. Millions of sites used the software after it became available on New Year's Eve, 2011. The bug was in it then but was only found last week. The big sites, like Google, Yahoo, YouTube, Amazon, etc., quickly made a patch to fix the bug. However, many small sites and thousands of apps are still at risk. It is still possible for hackers to access passwords and other confidential information. Hackers already broke into Canada's tax system and stole 900 passwords.

Internet security experts say more than a third of people who use the Android Jelly Bean OS are still waiting for a patch. Google has made all of its other services safe, such as Search, Gmail, YouTube and Play, but is working with its partners to create a fix for Jelly Bean. BlackBerry is also working to release a patch to its users later this week. Meanwhile, the man who accidentally created the bug spoke to reporters. He said: "I am responsible for the error because I wrote the code." He added: "Unfortunately, this mistake also slipped through the review process and therefore made its way into the released version." He said it was a "simple programming error".

Sources: http://www.upi.com/Business_News/2014/04/14/Android-devices-still-awaiting-Heartbleed-fix/5641397491826/
<http://www.pcmag.com/article2/0,2817,2456507,00.asp>
<http://www.pcmag.com/article2/0,2817,2456415,00.asp>

WARM-UPS

1. INTERNET BUGS: Students walk around the class and talk to other students about Internet bugs. Change partners often and share your findings.

2. CHAT: In pairs / groups, decide which of these topics or words from the article are most interesting and which are most boring.

companies / security / private information / bug / last week / patch / apps / password / Android / partners / accidentally / responsible / code / review / programming / error

Have a chat about the topics you liked. Change topics and partners frequently.

3. INTERNET DANGERS: Complete this table with your partner(s). Change partners often and share what you wrote.

Danger	How serious?	How worried are you?	What to do about it?
Phishing			
Cyber-bullying			
Viruses			
Identity theft			
File / Data loss			
Online stalkers			

4. BUG-FREE: Students A **strongly** believe there will be no Internet bugs in the future; Students B **strongly** believe there will always be bugs. Change partners again and talk about your conversations.

5. CONFIDENTIAL: Rank these with your partner. Put the most confidential info at the top. Change partners often and share your rankings.

- bank account details
- e-mail password
- date of birth
- gaming passwords
- credit card details
- log-in password
- private journal / diary
- Facebook password

6. SECURITY: Spend one minute writing down all of the different words you associate with the word "security". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

BEFORE READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

1. TRUE / FALSE: Read the headline. Guess if a-h below are true (T) or false (F).

- a. The Heartbleed bug is five years old. T / F
- b. Hackers can use the bug to get private information from websites. T / F
- c. Heartbleed first appeared on the Internet on New Year's Eve, 2011. T / F
- d. Hackers stole 9,000 passwords from Canada's tax system. T / F
- e. Over a third of Android users are waiting for a patch to fix the bug. T / F
- f. Google said the bug is not a danger to all of its online services. T / F
- g. BlackBerry has sent a patch to all of its users. T / F
- h. The man whose mistake created the bug said it was not a simple error. T / F

2. SYNONYM MATCH: Match the following synonyms from the article.

- | | |
|-----------------|--------------------|
| 1. safe | a. specialists |
| 2. hole | b. repair |
| 3. information | c. private |
| 4. fix | d. secure |
| 5. confidential | e. unintentionally |
| 6. experts | f. details |
| 7. create | g. mistake |
| 8. accidentally | h. gap |
| 9. error | i. edition |
| 10. version | j. make |

3. PHRASE MATCH: (Sometimes more than one choice is possible.)

- | | |
|-----------------------------|--------------------|
| 1. trying to make their | a. to fix the bug |
| 2. private | b. software |
| 3. security | c. for the error |
| 4. a patch | d. of people |
| 5. thousands of apps are | e. websites safe |
| 6. more than a third | f. process |
| 7. the man who accidentally | g. error |
| 8. I am responsible | h. information |
| 9. the review | i. created the bug |
| 10. a simple programming | j. still at risk |

GAP FILL

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Many companies are trying to make their websites (1) _____ from a new Internet bug called Heartbleed. It is like a (2) _____ in the security of websites that hackers can use to get (3) _____ information. The bug was in security software used by most Internet sites. Millions of sites used the software after it became (4) _____ on New Year's Eve, 2011. The bug was in it then but was only found last week. The big sites, like Google, Yahoo, YouTube, Amazon, etc., (5) _____ made a patch to fix the bug. However, many small sites and (6) _____ of apps are still at risk. It is still possible for hackers to access passwords and other (7) _____ information. Hackers already (8) _____ into Canada's tax system and stole 900 passwords.

thousands
private
quickly
safe
broke
hole
confidential
available

Internet security (9) _____ say more than a third of people who use the Android Jelly Bean OS are still waiting for a (10) _____. Google has made all of its other services safe, such as Search, Gmail, YouTube and Play, but is working with its (11) _____ to create a fix for Jelly Bean. BlackBerry is also working to (12) _____ a patch to its (13) _____ later this week. Meanwhile, the man who accidentally created the bug spoke to reporters. He said: "I am (14) _____ for the error because I wrote the code." He added: "Unfortunately, this mistake also (15) _____ through the review process and therefore made its way into the released version." He said it was a "simple programming (16) _____".

release
slipped
patch
error
experts
responsible
partners
users

Level 3

Companies still fixing Heartbleed bug- 17th April, 2014

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LISTENING – Guess the answers. Listen to check.

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

- 1) Many companies are trying to make their _____
 - a. websites safe
 - b. websites surf
 - c. websites serf
 - d. websites save
- 2) Millions of sites used the software after it became _____ New Year's Eve
 - a. availability on
 - b. avail a ball on
 - c. available on
 - d. avail able on
- 3) quickly made a patch to _____
 - a. nix the bug
 - b. jinx the bug
 - c. mix the bug
 - d. fix the bug
- 4) It is still possible for hackers to access passwords and other _____
 - a. confidentially information
 - b. confident shall information
 - c. confidential information
 - d. confidence all information
- 5) Hackers already broke into Canada's _____
 - a. tax systems
 - b. taxes system
 - c. taxes systems
 - d. tax system
- 6) BlackBerry is also working to release a _____
 - a. match to its users
 - b. batch to its users
 - c. patch to its users
 - d. hatch to its users
- 7) the man who accidentally _____
 - a. create it the bug
 - b. create the bug
 - c. creating the bug
 - d. created the bug
- 8) I am responsible for the error because I _____
 - a. wrote the code
 - b. write the code
 - c. written the code
 - d. rode the code
- 9) Unfortunately, this mistake also slipped through the _____
 - a. review process
 - b. reviewer process
 - c. reviews process
 - d. reviewed process
- 10) He said it was a "simple _____"
 - a. program in error
 - b. programming error
 - c. programmer error
 - d. programmed error

LISTENING – Listen and fill in the gaps

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Many companies (1) _____ their websites safe from a new Internet bug called Heartbleed. It (2) _____ the security of websites that hackers can use to get private information. The bug was in security software used by most Internet sites. Millions of sites used the software after it (3) _____ New Year's Eve, 2011. The bug was in it then but was only found last week. The big sites, like Google, Yahoo, YouTube, Amazon, etc., (4) _____ to fix the bug. However, many small sites and thousands of (5) _____. It is still possible for hackers to access passwords and other confidential information. Hackers (6) _____ Canada's tax system and stole 900 passwords.

Internet security (7) _____ than a third of people who use the Android Jelly Bean OS are still waiting for a patch. Google has made all of its (8) _____, such as Search, Gmail, YouTube and Play, but is working with its partners (9) _____ Jelly Bean. BlackBerry is also working to release a patch to its users later this week. Meanwhile, the man (10) _____ created the bug spoke to reporters. He said: "I (11) _____ the error because I wrote the code." He added: "Unfortunately, this mistake also slipped through the review process and therefore made its way into the released version." He said it was a "simple (12) _____".

COMPREHENSION QUESTIONS

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

1. What did the article say Heartbleed was like?

2. How many sites used the infected software?

3. In what year did Heartbleed appear?

4. What did many sites quickly make?

5. How many passwords did hackers steal?

6. How many Jelly Bean users are waiting for a patch?

7. Who is Google working with to create a patch?

8. When will BlackBerry's patch be available?

9. Why does the man who created the big say he is responsible?

10. What kind of mistake did the man say he made?

MULTIPLE CHOICE - QUIZ

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

1. What did the article say Heartbleed was like?
 - a) a library
 - b) a hole
 - c) a monster
 - d) a headache
2. How many sites used the infected software?
 - a) tens of thousands
 - b) hundreds of thousands
 - c) billions
 - d) millions
3. In what year did Heartbleed appear?
 - a) 2011
 - b) 2012
 - c) 2013
 - d) 2014
4. What did many sites quickly make?
 - a) money
 - b) excuses
 - c) a patch
 - d) mistakes
5. How many passwords did hackers steal?
 - a) 9,000
 - b) 900
 - c) 90,000
 - d) 900,000
6. How many Jelly Bean users are waiting for a patch?
 - a) 42 million
 - b) just a few
 - c) more than a third
 - d) those with the green ones
7. Who is Google working with to create a patch?
 - a) the World Wide Web
 - b) Facebook
 - c) the US Government
 - d) its partners
8. When will BlackBerry's patch be available?
 - a) later this week
 - b) tomorrow
 - c) next month
 - d) when the manager comes back
9. Why does the man who created the big say he is responsible?
 - a) he wrote the code
 - b) he knew it would be a problem
 - c) he did not report it
 - d) he was the chief bug-spotter
10. What kind of mistake did the man say he made?
 - a) a huge one
 - b) a simple one
 - c) an unforgivable one
 - d) the kind anyone could make

ROLE PLAY

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Role A – Bank account details

You think your bank account details are the most confidential. Tell the others three reasons why. Tell them things that aren't so important about their things. Also, tell the others which is the least important of these (and why): e-mail password, Facebook password or private journal.

Role B – E-mail password

You think your e-mail password is the most confidential. Tell the others three reasons why. Tell them things that aren't so important about their things. Also, tell the others which is the least important of these (and why): bank account details, Facebook password or private journal.

Role C – Facebook password

You think your Facebook password is the most confidential. Tell the others three reasons why. Tell them things that aren't so important about their things. Also, tell the others which is the least important of these (and why): e-mail password, bank account details or private journal.

Role D – Private journal / diary

You think your private journal is the most confidential. Tell the others three reasons why. Tell them things that aren't so important about their things. Also, tell the others which is the least important of these (and why): e-mail password, Facebook password or bank account details.

AFTER READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

1. WORD SEARCH: Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'heart' and 'bleed'.

heart	bleed
--------------	--------------

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

2. ARTICLE QUESTIONS: Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

3. GAP FILL: In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

4. VOCABULARY: Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

5. TEST EACH OTHER: Look at the words below. With your partner, try to recall how they were used in the text:

<ul style="list-style-type: none">• trying• private• 2011• last• big• possible	<ul style="list-style-type: none">• third• partners• later• created• slipped• simple
---	---

INTERNET BUGS SURVEY

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Write five GOOD questions about Internet bugs in the table. Do this in pairs. Each student must write the questions on his / her own paper. When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

INTERNET BUGS DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

- a) What did you think when you read the headline?
- b) What springs to mind when you hear the word 'computer bug'?
- c) Do you worry about computer bugs?
- d) What do you do to protect your computer and information?
- e) Do you think it's easy for hackers to guess your passwords?
- f) How bad would it be if people got your passwords?
- g) Do you think the Internet will ever be totally safe?
- h) What would happen if all Internet security broke?
- i) Has your computer ever had a computer virus?
- j) Do you have a lot of confidential information online?

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INTERNET BUGS DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

- a) Did you like reading this article? Why/not?
- b) What do you do to stay safe online?
- c) Do you feel comfortable shopping online with your credit card?
- d) How important is the Internet in your life?
- e) Have you ever had a problem because you forgot a password?
- f) Will hackers always be able to get confidential information?
- g) Which sites are most at risk from hackers?
- h) How do you think the man who accidentally made this bug feels?
- i) What do you think of the name "Heartbleed"?
- j) What would you like to ask an Internet security expert?

DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

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DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

LANGUAGE - CLOZE

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Many companies are trying to make their websites safe from a new Internet bug called Heartbleed. It is like a (1) _____ in the security of websites that hackers can use to get private information. The bug was in security software used by most Internet sites. Millions of sites used the software after it became (2) _____ on New Year's Eve, 2011. The bug was in it then but was (3) _____ found last week. The big sites, like Google, Yahoo, YouTube, Amazon, etc., (4) _____ made a patch to fix the bug. However, many small sites and thousands of apps are still (5) _____ risk. It is still possible for hackers to access passwords and other confidential information. Hackers already (6) _____ into Canada's tax system and stole 900 passwords.

Internet security (7) _____ say more than a third of people who use the Android Jelly Bean OS are still waiting for a patch. Google has made all of its other services safe, (8) _____ as Search, Gmail, YouTube and Play, but is working with its partners to create a fix for Jelly Bean. BlackBerry is also working to (9) _____ a patch to its users later this week. Meanwhile, the man who accidentally created the bug spoke to reporters. He said: "I am responsible (10) _____ the error because I wrote the code." He added: "Unfortunately, this mistake also (11) _____ through the review process and therefore made its way into the released version." He said it was a "(12) _____ programming error".

Put the correct words from the table below in the above article.

- | | | | | |
|-----|------------------|-------------|-------------|---------------|
| 1. | (a) whole | (b) hall | (c) hail | (d) hole |
| 2. | (a) there | (b) ready | (c) use | (d) available |
| 3. | (a) then | (b) only | (c) alone | (d) sole |
| 4. | (a) fast | (b) speedy | (c) quickly | (d) swift |
| 5. | (a) to | (b) by | (c) at | (d) of |
| 6. | (a) broke | (b) damaged | (c) marred | (d) smashed |
| 7. | (a) expats | (b) experts | (c) exports | (d) expires |
| 8. | (a) such | (b) like | (c) similar | (d) same |
| 9. | (a) free | (b) release | (c) let go | (d) sell |
| 10. | (a) of | (b) by | (c) for | (d) from |
| 11. | (a) stumbled | (b) tripped | (c) slipped | (d) slid |
| 12. | (a) child's play | (b) modest | (c) easy | (d) simple |

SPELLING

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Paragraph 1

1. a hole in the etuscivr of websites
2. get eritapy information
3. it became aaablveil on New Year's Eve
4. a hactp to fix the bug
5. possible for hackers to csscae passwords
6. other eafntdoicnil information

Paragraph 2

7. eerxtps say more than a third...
8. actnldlaeciy created the bug
9. I am slnbosirepe
10. the wereiv process
11. the released reosvni
12. a simple programming rrreo

PUT THE TEXT BACK TOGETHER

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Number these lines in the correct order.

- () called Heartbleed. It is like a hole in the security of websites that hackers can use to get private
- () Internet security experts say
- () week. The big sites, like Google, Yahoo, YouTube, Amazon, etc., quickly made a patch to
- () after it became available on New Year's Eve, 2011. The bug was in it then but was only found last
- () fix the bug. However, many small sites and thousands of apps are still at risk. It is still possible for hackers to
- () more than a third of people who use the Android Jelly Bean OS are still waiting for a patch. Google has made all
- () access passwords and other confidential information. Hackers already broke into Canada's tax system and stole 900 passwords.
- (**1**) Many companies are trying to make their websites safe from a new Internet bug
- () for the error because I wrote the code." He added: "Unfortunately, this mistake also slipped
- () information. The bug was in security software used by most Internet sites. Millions of sites used the software
- () of its other services safe, such as Search, Gmail, YouTube and Play, but is working with its
- () through the review process and therefore made its way into the released version." He said it was a "simple programming error".
- () partners to create a fix for Jelly Bean. BlackBerry is also working to release a patch to its users later
- () this week. Meanwhile, the man who accidentally created the bug spoke to reporters. He said: "I am responsible

PUT THE WORDS IN THE RIGHT ORDER

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

1. make Companies their are websites trying safe to.

2. websites like in of is hole security It a the.

3. sites Internet most by used software Security.

4. of apps are still at risk Small sites and thousands.

5. to still hackers passwords is for access It possible.

6. partners to create a fix Google is working with its.

7. created accidentally who man The bug the.

8. for responsible am I code the wrote I because error the.

9. mistake review also process slipped through This the.

10. simple said programming it error was a He.

CIRCLE THE CORRECT WORD (20 PAIRS)

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

Many companies are trying to make their websites *safety / safe* from a new Internet bug called Heartbleed. It is like a *whole / hole* in the security of websites that hackers can use to *get / put* private information. The bug was in security software used by most Internet sites. Millions of sites used the software after it became *use / available* on New Year's Eve, 2011. The bug was in it *then / that* but was only found last week. The big sites, like Google, Yahoo, YouTube, Amazon, etc., *quickly / speedy* made a patch to fix the bug. However, *many / much* small sites and thousands of apps are still at *risky / risk*. It is still possible for hackers to *excess / access* passwords and other confidential information. Hackers already broke into Canada's tax system and *stole / steals* 900 passwords.

Internet security *expats / experts* say more than a third of people who use the Android Jelly Bean OS are still *waited / waiting* for a patch. Google has made all of its *other / another* services safe, such as Search, Gmail, YouTube and Play, but is working with its partners to create *affix / a fix* for Jelly Bean. BlackBerry is also working to release a *pitch / patch* to its users later this week. Meanwhile, the man who *accidentally / accidents* created the bug spoke to reporters. He said: "I am *responsibility / responsible* for the *terror / error* because I wrote the code." He added: "Unfortunately, this mistake also slipped *through / though* the review process and therefore made its way into the released *version / venison*." He said it was a "simple programming error".

Talk about the connection between each pair of words in italics, and why the correct word is correct.

INSERT THE VOWELS (a, e, i, o, u)

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

M_ny c_m_p_n__s _r_ try_n_g t_ m_k_ th__r w_bs_t_s
s_f_fr_m _n_w _nt_rn_t b_g c_ll_d H__rtbl__d. _t_s
l_k_ _h_l_ _n th_ s_c_r_ty _f w_bs_t_s th_t h_ck_rs
c_n _s_ t_ g_t pr_v_t_ _nf_rm_t__n. Th_ b_g w_s _n
s_c_r_ty s_ftw_r_ _s_d by m_st _nt_rn_t s_t_s.
M_ll__ns _f s_t_s _s_d th_ s_ftw_r_ _ft_r_t b_c_m_
_v__l_bl_ _n N_w Y__r's _v_, 2011. Th_ b_g w_s _n t
th_n b_t w_s _nly f__nd l_st w__k. Th_ b_g s_t_s, l_k_
G__gl_, Y_h__, Y__T_b_, _m_z_n, _tc., q__ckly m_d__
p_tch t_ f_x th_ b_g. H_w_v_r, m_ny sm_ll s_t_s _nd
th__s_nds _f _pps _r_ st_ll _t_r_sk. _t_s st_ll
p_ss_bl_ f_r h_ck_rs t_ _cc_ss p_ssw_rds _nd _th_r
c_nf_d_nt_l _nf_rm_t__n. H_ck_rs _lr_dy br_k__nt_
C_n_d_'s t_x syst_m _nd st_l_ 900 p_ssw_rds.

_nt_rn_t s_c_r_ty _xp_rts s_y m_r_ th_n _ th_r_d _f
p__pl_ wh_ _s_ th_ _ndr__d J_lly B__n _S _r_ st_ll
w__t_ng f_r _p_tch. G__gl_ h_s m_d__ll_f_ts _th_r
s_rv_c_s s_f_, s_ch _s S__rch, Gm__l, Y__T_b_ _nd
Pl_y, b_t_s w_rk_ng w_th _ts p_rtn_rs t_ cr__t_ _f_x
f_r J_lly B__n. Bl_ckB_rry _s _ls_ w_rk_ng t_r_l__s_
p_tch t_ _ts _s_rs l_t_r th_s w__k. M__nwh_l_, th_
m_n wh_ _cc_d_nt_lly cr__t_d th_ b_g sp_k_ t_
r_p_rts. H_ s__d: "_ _m_r_sp_ns_bl_ f_r th_ _rr_r
b_c__s_ _wr_t_ th_ c_d_." H__dd_d: "_nf_rt_n_t_ly,
th_s m_st_k_ _ls_ sl_pp_d thr__gh th_ r_v__w pr_c_ss
_nd th_r_f_r_ m_d__ts w_y _nt_ th_ r_l__s_d
v_rs__n." H_ s__d _t_w_s _ "s_mpl_ pr_gr_mm_ng
_rr_r".

PUNCTUATE THE TEXT AND ADD CAPITALS

From <http://www.BreakingNewsEnglish.com/1404/140417-heartbleed.html>

many companies are trying to make their websites safe from a new internet bug called heartbleed it is like a hole in the security of websites that hackers can use to get private information the bug was in security software used by most internet sites millions of sites used the software after it became available on new year's eve 2011 the bug was in it then but was only found last week the big sites like google yahoo youtube amazon etc quickly made a patch to fix the bug however many small sites and thousands of apps are still at risk it is still possible for hackers to access passwords and other confidential information hackers already broke into canada's tax system and stole 900 passwords

internet security experts say more than a third of people who use the android jelly bean os are still waiting for a patch google has made all of its other services safe such as search gmail youtube and play but is working with its partners to create a fix for jelly bean blackberry is also working to release a patch to its users later this week meanwhile the man who accidentally created the bug spoke to reporters he said "i am responsible for the error because i wrote the code" he added "unfortunately this mistake also slipped through the review process and therefore made its way into the released version" he said it was a "simple programming error"

PUT A SLASH (/) WHERE THE SPACES ARE

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Many companies are trying to make their websites safe from a new Internet bug called Heartbleed. It is like a hole in the security of websites that hackers can use to get private information. The bug was in security software used by most Internet sites. Millions of sites used the software after it became available on New Year's Eve, 2011. The bug was in it then but was only found last week. The big sites, like Google, Yahoo, YouTube, Amazon, etc., quickly made a patch to fix the bug. However, many small sites and thousands of apps are still at risk. It is still possible for hackers to access passwords and other confidential information. Hackers already broke into Canada's tax system and stole 900 passwords. Internet security experts say more than a third of people who use the Android Jelly Bean OS are still waiting for a patch. Google has made all of its other services safe, such as Search, Gmail, YouTube and Play, but is working with its partner to create a fix for Jelly Bean. BlackBerry is also working to release a patch to its users later this week. Meanwhile, the man who accidentally created the bug spoke to reporters. He said: "I am responsible for the error because I wrote the code." He added: "Unfortunately, this mistake also slipped through the review process and therefore made its way into the released version." He said it was a "simple programming error".

HOMework

1. VOCABULARY EXTENSION: Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

2. INTERNET: Search the Internet and find out more about the Heartbleed bug. Share what you discover with your partner(s) in the next lesson.

3. INTERNET BUGS: Make a poster about Internet bugs. Show your work to your classmates in the next lesson. Did you all have similar things?

4. HEARTBLEED: Write a magazine article about Heartbleed. Include imaginary interviews with people who think it is very dangerous and people who think it is not dangerous and will disappear very soon.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

5. WHAT HAPPENED NEXT? Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

6. LETTER: Write a letter to an expert on Internet bugs. Ask him/her three questions about them. Give him/her three of your ideas on how we can protect our computers and information. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

TRUE / FALSE (p.4)

a F b T c T d F e T f T g F h F

SYNONYM MATCH (p.4)

- | | |
|-----------------|--------------------|
| 1. safe | a. secure |
| 2. hole | b. gap |
| 3. information | c. details |
| 4. fix | d. repair |
| 5. confidential | e. private |
| 6. experts | f. specialists |
| 7. create | g. make |
| 8. accidentally | h. unintentionally |
| 9. error | i. mistake |
| 10. version | j. edition |

COMPREHENSION QUESTIONS (p.8)

1. A hole in Internet security
2. Millions
3. 2011
4. A patch
5. 900
6. Over a third
7. Its partners
8. Later this week
9. He wrote the code
10. A simple programming error

MULTIPLE CHOICE - QUIZ (p.9)

1. b 2. d 3. a 4. c 5. b 6. c 7. d 8. a 9. a 10. b

ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.
(It's good for your English ;-)