

KIBERXUJUMLAR TURLARI VA ULARDAN HIMOYALANISH

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Kalit so'z: Kiberxujumlar, phishing, DDoS, zararli dasturlar, himoyalani sh usullari.

Kirish

Bugungi kunda axborot texnologiyalarining jadal rivojlanishi bilan birga, kiberxavfsizlik tahdidlari ham ortib bormoqda. Har kuni minglab kiberxujumlar sodir bo'lib, tashkilotlar va jismoniy shaxslarning ma'lumotlariga zarar yetkaziladi. Ushbu maqolada eng keng tarqalgan kiberxujum turlari va ulardan himoyalani sh usullari ko'rib chiqiladi.

Kiberxujumlar turlari

1. Fishing (Phishing)

Fishing – bu foydalanuvchilarni aldash yo'li bilan maxfiy ma'lumotlarni (login, parol, bank kartasi ma'lumotlari) qo'lga kiritish usulidir. Fishing hujumlari odatda soxta veb-saytlar yoki elektron pochta xabarlarini orqali amalga oshiriladi.

Himoyalani sh usullari:

- Elektron pochta orqali kelgan shubhali havolalarni tekshirish.
- Rasmiy manbalardan foydalanish.
- Ikki bosqichli autentifikatsiyani (2FA) yoqish.

2. Zararli dasturlar (Malware)

Zararli dasturlar – bu kompyuter tizimlariga zarar yetkazadigan yoki ma'lumotlarni o'g'irlashga mo'ljallangan dasturlar bo'lib, troyan, virus va reklama dasturlarini o'z ichiga oladi.

Himoyalani sh usullari:

- Ishonchli antivirus dasturlaridan foydalanish.
- Noma'lum fayllarni yuklab olmaslik va o'rnatmaslik.
- Operatsion tizim va dasturlarni doimiy ravishda yangilab borish.

3. DoS va DDoS hujumlari

Denial of Service (DoS) va Distributed Denial of Service (DDoS) hujumlari tarmoq resurslarini ortiqcha yuklab, ularning ishlashini izdan chiqarish uchun mo'ljallangan.

Himoyalani sh usullari:

- Tarmoq trafigini monitoring qilish va filtratsiya qilish.
- Mustahkam firewall va tarmoq xavfsizlik devorlaridan foydalanish.
- Cloud-based DDoS himoya xizmatlaridan foydalanish.

4. Ransomware (Shantaj dasturlari)

Ransomware – bu foydalanuvchining fayllarini shifrlab, ularni tiklash evaziga pul talab qiladigan zararli dasturdir.

Himoyalaniş usullari:

- Muhim ma'lumotlarning zaxira nusxasini yaratish.
- Noma'lum manbalardan fayllar yuklab olmaslik.
- Kompyuter tizimini doimiy ravishda yangilab turish.

5. SQL Injection

SQL Injection – bu xakerlarning veb-saytlar bazasiga noqonuniy kirish uchun SQL so'rovlarini manipulyatsiya qilish usulidir.

Himoyalaniş usullari:

- Kiritilayotgan ma'lumotlarni tekshirish va filtrlash.
- Web ilovalarida xavfsiz kod yozish texnikalaridan foydalanish.
- Dasturiy ta'minotni muntazam ravishda yangilash.

Umumiy himoya choralar

Kiberxavfsizlikni ta'minlash uchun quyidagi umumiy choralarni ko'rish tavsiya etiladi:

- Kuchli va murakkab parollardan foydalanish.
- Parollarni muntazam o'zgartirish.
- Shubhali xabarlar va havolalarga ehtiyotkorlik bilan munosabatda bo'lish.
- Kompyuter va tarmoqlarni muntazam tekshirib borish.
- Xodimlar va foydalanuvchilarni kiberxavfsizlik bo'yicha o'qitish.

Xulosa

Kiberxavfsizlik hozirgi kunda eng muhim masalalardan biridir. Kiberxujumlar har qanday tashkilot yoki jismoniy shaxs uchun jiddiy tahdid solishi mumkin. Shu sababli, turli xil kiberxujumlarga qarshi samarali himoya choralarini ko'rish va xavfsizlikni ta'minlash muhimdir. Raqamli dunyoda ishonchli va xavfsiz bo'lish uchun har bir foydalanuvchi o'z ma'lumotlarini himoya qilishga e'tibor qaratishi lozim.

FOYDALANILGAN ADABIYOTLAR

1. MURODOV, O. (2024). MODEL OF THE TEACHING PROCESS OF INFORMATICS AND INFORMATION TECHNOLOGIES ON THE BASIS OF AN INNOVATIVE

APPROACH, IMPLEMENTATION MECHANISMS. *Medicine, pedagogy and technology: theory and practice*, 2(9), 309-317.

2. Murodov, O. T. R. (2024). INFORMATIKA FANIDAN AMALIY MASHG ‘ULOTLARNI TASHKIL ETISH: TAJRIBALAR VA NATIJALAR. *The latest pedagogical and psychological innovations in education*, 1(2), 115-121.

3. Murodov, O. T. R. (2024). STEAM YONDASHUVI DOIRASIDA INFORMATIKA FANINI O ‘QITISHNING ISTIQBOLLARI. *The latest pedagogical and psychological innovations in education*, 1(2), 59-65.

4. Murodov, O. T. R. (2024). INFORMATIKA DARSLARINI INTERAKTIV METODLAR YORDAMIDA TASHKIL ETISH. *The latest pedagogical and psychological innovations in education*, 1(2), 101-107.

5. Murodov, O. T. R. (2024). INTERNET XAVFSIZLIGI BO ‘YICHA BILIMLARNI O ‘QUVCHILARGA YETKAZISH. *The latest pedagogical and psychological innovations in education*, 1(2), 66-72.

6. Murodov, O. T. R. (2024). ALGORITMLARNI MAKTAB O ‘QUVCHILARIGA O ‘RGATISH: SAMARALI METODIKALAR. *The latest pedagogical and psychological innovations in education*, 1(2), 87-93.

7. Murodov, O. T. R. (2024). ALGORITMLARNI MAKTAB O ‘QUVCHILARIGA O ‘RGATISH: SAMARALI METODIKALAR. *The latest pedagogical and psychological innovations in education*, 1(2), 87-93.

8. Murodov, O. T. R. (2024). INFORMATIKA DARSLARIDA ZAMONAVIY O ‘QUV TEXNOLOGIYALARI VA VOSITALARIDAN FOYDALANISH. *The latest pedagogical and psychological innovations in education*, 1(2), 80-86.

9. Murodov, O. T. R. (2024). RAQAMLI TEXNOLOGIYALARNI O ‘QUV JARAYONIGA INTEGRATSIYA QILISH USULLARI. *The latest pedagogical and psychological innovations in education*, 1(2), 108-114.

10. TO‘RAQULOVICH, M. O. (2025). ZAMONAVIY TEXNOLOGIYALARNI TA‘LIMDA QO‘LLASH IMKONIYATLARI VA UNING ISTIQBOLLARI. *PEDAGOGIK TADQIQOTLAR JURNALI*, 2(2), 102-106.

11. To‘raqulovich, M. O. (2024). OLIY TA‘LIM MUASSASALARIDA AXBOROT KOMMUNIKASIYA TEXNOLOGIYALARI DARSLARINI TASHKIL ETISHDA ZAMONAVIY USULLARDAN FOYDALANISH. *PEDAGOG*, 7(6), 63-74.

12. Muradov, O. (2024, January). IN TEACHING INFORMATICS AND INFORMATION TECHNOLOGIES REQUIREMENTS. In *Международная конференция академических наук* (Vol. 3, No. 1, pp. 97-102).

13. To‘raqulovich, M. O. (2024). OLIY TA‘LIM MUASSASALARIDA TA‘LIMNING INNOVASION TEXNOLOGIYALARDAN FOYDALANISH. *PEDAGOG*, 7(5), 627-635.

14. Murodov, O. (2024). DEVELOPMENT OF AN AUTOMATED SYSTEM FOR CONTROLLING TEMPERATURE AND HUMIDITY IN PRODUCTION ROOMS. *Development and innovations in science*, 3(1), 84-93.

15. Murodov, O. (2024). TA‘LIM TEXNOLOGIYALARINING ILMIY-NAZARIY ASOSLARI. *Science and innovation in the education system*, 3(3), 155-160.

16. Murodov, O. (2023). INNOVATSION YONDASHUV ASOSIDA INFORMATIKA VA AXBOROT TEXNOLOGIYALARI FANINI O‘QITISH JARAYONINI TAKOMILLASHTIRISH. *Theoretical aspects in the formation of pedagogical sciences*, 3(4), 77-81.

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https://scholar.google.com/scholar?hl=ru&as_sdt=0%2C5&q=wosjournals.com&btnG

<https://www.researchgate.net/search/publication?q=worldly%20knowledge>

<https://journalseeker.researchbib.com/view/issn/3060-4923>

17. To'raqulovich, M. O. (2024). IMPROVING THE TEACHING PROCESS OF IT AND INFORMATION TECHNOLOGIES BASED ON AN INNOVATIVE APPROACH. *Multidisciplinary Journal of Science and Technology*, 4(3), 851-859.
18. Murodov, O. (2024). DEVELOPMENT AND INSTALLATION OF AN AUTOMATIC TEMPERATURE CONTROL SYSTEM IN ROOMS. *Solution of social problems in management and economy*, 3(2), 91-94.
19. Muradov, O. (2024). APPLIED TO THE CURRENT TRAINING PROCESS REQUIREMENTS. *Инновационные исследования в науке*, 3(1), 54-63.
20. Murodov, O. (2024). DEVELOPMENT OF AN AUTOMATED PARAMETER CONTROL SYSTEM ROOMS AND WORKSHOPS BASED ON CLOUD TECHNOLOGIES. *Академические исследования в современной науке*, 3(2), 16-27.
21. Muradov, O. (2024, January). Application of basic principles and rules of innovative pedagogical technologies to educational processes. In *Международная конференция академических наук* (Vol. 3, No. 1, pp. 46-55).
22. Turakulovich, M. O. (2024). DEVELOPMENT AND INSTALLATION OF AN AUTOMATIC TEMPERATURE CONTROL SYSTEM IN ROOMS. *Methods of applying innovative and digital technologies in the educational system*, 1(2), 72-77.
23. Muradov, O. (2024). Basic principles and rules of innovative pedagogical technologies in the educational process. *Models and methods in modern science*, 3(1), 84-93.
24. Torakulovich, M. O. (2024). Innovative information technologies and new methods and tools for their application in today's education. *Central Asian Journal Of Education and Innovation*, 3(2-2), 83-92.
25. Murodov, O. T. R. (2023). INFORMATIKA FANINI O 'QITISHDA YANGI INNOVATSION USULLARDAN FOYDALANISH METODIKASI. *GOLDEN BRAIN*, 1(34), 130-139.
26. Murodov, O. T. R. (2023). Zamonaviy ta'limda axborot texnologiyalari va ularni qo'llash usul va vositalari. *Educational Research in Universal Sciences*, 2(11), 481-486.
27. Murodov, O. T. R. (2023). INFORMATIKA DARSLARINI TASHKIL ETISHDA INNOVATSION USULLARDAN FOYDALANISH. *GOLDEN BRAIN*, 1(32), 194-201.
28. Муро́дов, О. Т. (2023). РАЗРАБОТКА АВТОМАТИЗИРОВАННОЙ СИСТЕМЫ УПРАВЛЕНИЯ ТЕМПЕРАТУРЫ И ВЛАЖНОСТИ В ПРОИЗВОДСТВЕННЫХ КОМНАТ. *GOLDEN BRAIN*, 1(26), 91-95.