

OSAKA UNIVERSITY OF ECONOMICS

How Osaka University of Economics established the University-wide Information System Operation Council and used KELA cybercrime intelligent technology as trump card to strengthen cyber security measures.



access the school network for educational purposes from outside the school.

Located in Yodogawa-ku, Osaka City and has more than 6,800 students, More than 1,800 computers are used on campus, and many students have their own personal computers to



Universities had to adjust their

teaching method to remote teaching due to Covid-19, which made the ICT system more vulnerable to cyber-attacks than before. X The Ministry of Education announced

that all the Universities must strengthening Cyber Security Measures at Universities. Organizations are seeking a solution to

mitigate threats and reduce cybercrime risks.

The solution

Identify the University's attack surface

from the attacker's perspective.

Track information and insights in order to stay on top of threats.

Monitor threats and ensure Universities can protect their valuable assets.



credentials and vulnerabilities in real-time.

Discover information about leaked

Detect threats that are traded deep within the internet without installing investigative tools on the organization's network.

Take measures to prevent cyber attacks and stay ahead of attackers.

In recent years, attacks against educational institutions in Japan have become more prominent. In April 2022, computers used by students and staff at a Japanese national university in Tokyo were infected with malware (viruses and other malicious programs) that stole authentication information

→ Challenges

Similar attacks on educational institutions are increasing rapidly around the world; for example, in 2021, the number of cyber-attacks on educational and research institutions increased by 75% year-on-year around the world, including Japan. In the U.S., there have been reports of schools being forced to close

due to the extensive damage caused by ransomware (a ransom-type virus).

80% of the digital infrastructure is on the cloud and 20% is operated on-premise. The university is also connected to the SINET academic information network, so the university has long had cyber security measures in place. "Fortunately, we had not suffered a major cyber-attack that made the newspapers, but in 2018 we had an incident in which router information was rewritten by hackers", said Minoru Yokoyama, Director of Finance Department, who is in charge of cybersecurity measures at the university.

Educational institutions handle the personal information of a large number of students, faculty, and staff. In addition, many universities hold intellectual property such as advanced researches and scientific training techniques, and information leaks can affect the reputation of the university and

even damage the national interest potentially. In May 2019, the Ministry of Education, Culture, Sports, Science and Technology issued a notice titled "Strengthening Cyber Security Measures at Universities" for private universities nationwide

CHALLENGES

Osaka University of Economics has taken this notice as an opportunity to develop internal regulations. The university established the University-wide Information System Operation Council and introduced Kela's platform in 2022 as a trump card to strengthen cyber security measures.

Reducing Risks With Kela

I first became aware of KELA's products when I registered with LUMINT, a glimpse into KELA's events and insights from the cybercrime underground. After the registration, I was contacted by a KELA sales representative who explained about RADARK - KELA's product that provides organizations with external attack surface visibility, as seen from the eyes of cybercriminals, and I thought it would be useful. Then

we were introduced to KELA platform, and after seeing a demonstration, we thought it would best-fit our needs and made our decision. Kazuyoshi Kikukawa, Director of the Systems Section of the Finance Department.

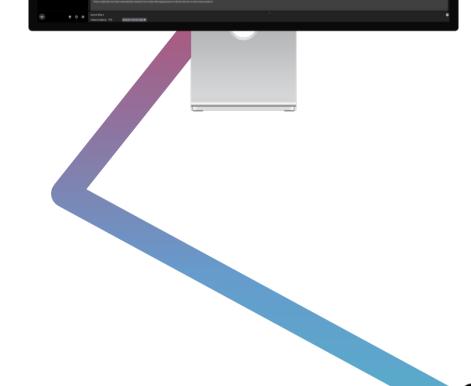
KELA'S

PLATFORM KELA's platform specializes in cybercrime investigations and includes a 24/7 analysts' tech support . Although KELA has a proven track record in government entities and major telecommunications companies, there have been few cases in Japan where medium-sized companies and university/educational institutions have adopted KELA's technology.



Osaka university's path to cybercrime defense





This represents a dashboard interface featuring a summary of alerts. The alerts are categorized based on their severity level. In the demonstration, there are critical alerts, relatively high-severity alerts, and low-severity alerts. Noteworthy alerts include the discovery of newly exchanged credentials in a hacker conversation. Additionally, high-severity alerts indicate the sharing of a new file on a dark file-sharing service within the darknet.

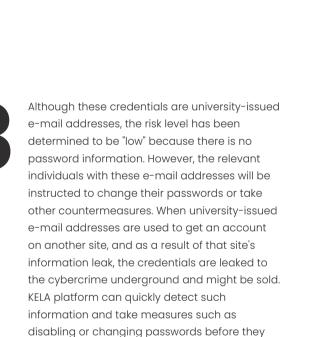
KELA is a cybercrime intelligence platform. To deploy the system, users

IP addresses and keywords to be monitored. The system detects the movement of the monitored

information, such as the exchange of information on underground forums, and notifies the administrator through

register the domains,

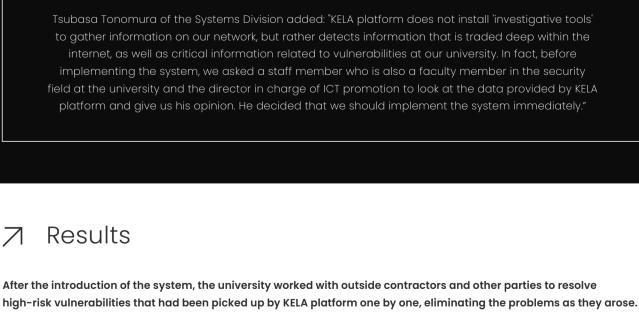
the dashboard.



are abused by cybercriminals, thereby preventing you from becoming a victim of

cybercrime in advance.

we had been using a service that notified us of email addresses and authentication information that had been leaked on the internet, but it was shocking that KELA platform discovered more information about leaked credentials and various vulnerabilities in our school's system that we could not detect before.



Kazuyoshi Kikukawa, Director of the Systems Section of the Finance Department.

system", said Sotomura.

"KELA platform informs us of potential

operations-threats that could occur

countermeasures. We are now more

the service based on the usage of the FTP service.

risks that can cause tremendous

in the future-and recommends

damage to the institution's

top screen of KELA platform is easy continue to expand the program to confident in our cybersecurity measures at our school than we to intuitively understand at a universities, educational institutions, glance, which is also helpful", said hospitals, and other medical were before the introduction of the Kikukawa. institutions" (KELA representative).

It can also monitor information about vulnerabilities on the network. Here, it was found that the FTP site installed can be accessed by third parties. Specific measures can be taken for this information as well, such as changing or stopping

"As of today, most of the risks have

threats have emerged. Still, KELA

platform continues to monitor the

site to make sure we don't let our

guard down. The dashboard-style

been resolved, and no new

KELA

Protect your organization with Kela's cybercrime intelligence platform START NOW

Therefore, in the case of Osaka

university-related sector, thus

realizing a low price. We plan to

reasonable KELA platform program is

University of Economics, a

being deployed in the

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