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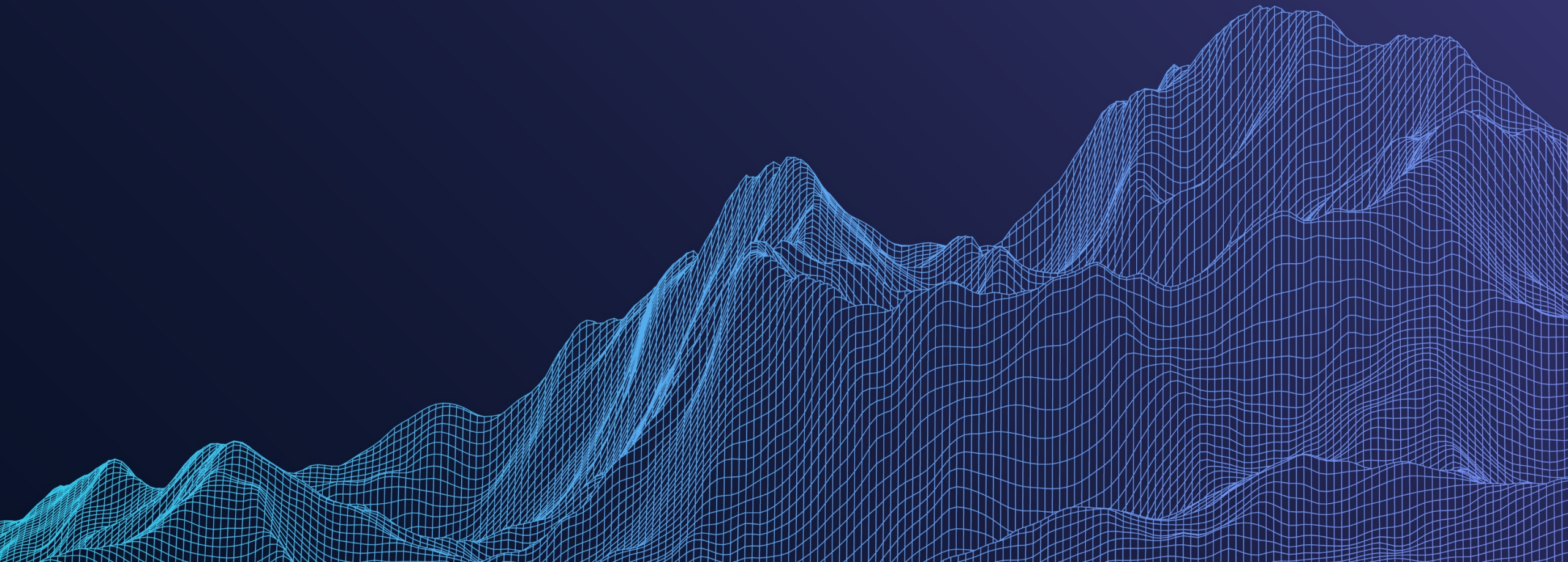
(ISC)² Partnership and Education Credit Program



What's New with Kenna in 2021?

(ISC)² | CPE SUBMITTER

Kenna is now an official partner of (ISC)² !

- Customers that participate in live Kenna's webinar programs, can receive CPE (continuing education credits) toward (ISC)² certification.
- Kenna is initiating this program with a focus on webinar programs and may expand into other digital programs in 1H 2021

What do you need to do?

- ✓ ***Provide*** your ISC2 member ID when registering for a Kenna webinar
- ✓ ***Attend*** the live webinar
- ✓ Kenna will submit attendance info to (ISC)²
- ✓ (ISC)² will reflect credit for attendance in your personal (ISC)² account
- ✓ (ISC)² may take up to10 business days before the credit is reflected in your account
- ✓ One CPE Credit is earned for each hour of attendance

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Getting the Most Out of Data Exports

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Getting the Most Out of Data Exports

Agenda

- Use cases for data exports
  - Custom reporting
  - Historical reporting
  - Audit/Compliance requirements
- Types of Exports
  - Assets
  - Vulnerabilities
  - Fixes
- Generating Exports
  - Crafting API Requests
  - Output file formats
  - Incremental Exports

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Group Chat Question

Is anyone already using data exports in your organization? If so what use cases are you accomplishing?

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Use Cases for Data Exports

- Customized Reporting
  - While Kenna offers many great reporting features, no vendor product will ever perfectly match your organizations' unique reporting needs
  - Exporting data from Kenna opens up even more integration opportunities with data lakes, SIEMs, etc.
- Historical Reporting
  - Kenna is not a historical reporting tool
  - Exporting the data for offline storage allows more in-depth inquiries into trends and "look back" analysis
- Audit/Compliance Requirements
  - Many frameworks and regulations require data to be stored offline and/or for a certain number of years

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Types of Data Exports

- Kenna provides three different types of exports
  - Assets
  - Vulnerabilities
  - Fixes
- Each export type provides a different data set
- The export type can be defined in the API request
- Combining these three export types allow you to fully replicate your full Kenna data set outside of the user interface

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Asset Exports

- Each asset is listed by its ID with all known metadata included such as
  - Asset priority
  - Operating system
  - Tags
  - Asset owner
  - IP address
  - Hostname
  - MAC address
  - Etc…


```
{
    "id": 11012,
    "created_at": "2020-11-06T21:18:21Z",
    "priority": 10,
    "operating_system": "Microsoft Windows Server 2008 R2 Standard Service Pack 1",
    "notes": null,
    "last_booted_at": null,
    "primary_locator": "mac_address",
    "locator": "00:50:56:81:01:df",
    "vulnerabilities_count": 29,
    "status": "active",
    "last_seen_time": "2013-07-01T11:47:23Z",
    "network_ports": [
        {
            "id": 55204,
            "port_number": 80,
            "extra_info": "",
            "hostname": null,
            "name": "www",
            "ostype": "",
            "product": null,
            "protocol": "tcp",
            "state": "open",
            "version": null
        },
        {
        {
        {
        {
        {
        {
        {
        {
        {
        {
    ],
    "tags": [],
    "owner": null,
    "inactive_at": null,
    "status_set_manually": false,
    "urls": {
        "vulnerabilities": "api.kennasecurity.com/assets/11012/vulnerabilities"
    },
    "ip_address": "10.31.112.26",
    "database": null,
    "hostname": "qa3app06",
    "fqdn": null,
    "netbios": "QA3APP06",
    "application": null,
    "file": null,
    "mac_address": "00:50:56:81:01:df",
    "ec2": null,
    "url": null,
    "external_id": null,
    "ipv6": null,
    "risk_meter_score": 320,
    "asset_groups": [
        {
            "id": 251316,
            "name": "All Assets"
        },
        {
            "id": 252525,
            "name": "Nessus"
        },
        {
```

Vulnerability Exports

- Each finding of a vulnerability is included separately
- As an example, if CVE-2021-1234 is found on 25 assets, we'll have 25 entries in the export
- Data points include
  - Asset ID
  - Creation date
  - Associated fix
  - Connector
  - Scanner detection
  - Risk score
  - Custom fields
  - Etc…


```
{
    "id": 629607,
    "status": "open",
    "closed_at": null,
    "created_at": "2020-11-06T21:18:21Z",
    "due_date": null,
    "notes": null,
    "port": [
        3389
    ],
    "priority": 10,
    "identifiers": [
        "18405"
    ],
    "last_seen_time": "2013-07-01T11:47:23.000Z",
    "scanner_score": 2.0,
    "fix_id": 1770971,
    "scanner_vulnerabilities": [
        {
            "port": 3389,
            "external_unique_id": "18405",
            "open": true
        }
    ],
    "asset_id": 11012,
    "connectors": [
        {
            "id": 156474,
            "name": "Nessus XML",
            "connector_definition_name": "Nessus XML",
            "vendor": "Tenable"
        }
    ],
    "service_ticket": null,
    "urls": {
        "asset": "api.kennasecurity.com/assets/11012"
    },
    "solution": "- Force the use of SSL as a transport layer for
    this service if supported, or/and\n- Select the 'Allow
    connections only from computers running Remote Desktop with
    Network Level Authentication' setting if it is available.",
    "patch": true,
    "patch_published_at": null,
    "cve_id": "CVE-2005-1794",
    "cve_description": "Microsoft Terminal Server using Remote
    Desktop Protocol (RDP) 5.2 stores an RSA private key in
    mstlsapi.dll and uses it to sign a certificate, which allows
```

Fixes Exports

- Each fix that applies to an asset in the environment can be exported
- Fixes are reported uniquely, with the associated assets and vulnerabilities linked
- Data points include
  - Assets
  - Vulnerabilities
  - Diagnosis
  - Solution
  - Reference links
  - Scanner IDs
  - Patch publication date
  - Etc…


```
"fixes": [
    {
        "id": 1770969,
        "diagnosis": "<p>One of several ports that were previously
        open are now closed or unresponsive. <br><br>There are several
        possible reasons for this :<br><br>  - The scan may have
        caused a service to freeze or stop     running.<br><br>  - An
        administrator may have stopped a particular service     during
        the scanning process.<br><br>This might be an availability
        problem related to the following :<br><br>  - A network outage
        has been experienced during the scan,     and the remote
        network cannot be reached anymore by the     scanner.<br><br>
        - This scanner may has been blacklisted by the system
        administrator or by an automatic intrusion detection /
        prevention system that detected the scan.<br><br>  - The
        remote host is now down, either because a user     turned it
        off during the scan or because a select denial     of service
        was effective.<br><br>In any case, the audit of the remote
        host might be incomplete and may need to be done again</p>",
        "consequence": null,
        "solution": "- Increase checks_read_timeout and/or reduce
        max_checks\n\n- Disable any IPS during the Nessus scan",
        "url": null,
        "title": "Open Port Re-check",
        "vendor": null,
        "reference_links": null,
        "exact_match": null,
        "alternates_visible": false,
        "assets": [
            "api.kennasecurity.com/assets/11011",
            "api.kennasecurity.com/assets/11012",
            "api.kennasecurity.com/assets/11013",
            "api.kennasecurity.com/assets/11014",
            "api.kennasecurity.com/assets/11015",
            "api.kennasecurity.com/assets/11016",
            "api.kennasecurity.com/assets/11017"
        ],
        "scanner_ids": [
            "10919"
        ],
        "cves": [],
        "updated_at": "2020-11-06T21:18:02.000Z",
        "patch_publication_date": null,
        "category": null,
        "vuln_count": 7,
        "vulnerabilties": [
            "api.kennasecurity.com/vulnerabilties/629570",
```

Interactive Poll

What type of export would provide a list of the tags found on each asset?

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Demo Time

- Crafting API requests to target data exports
- Using Gzip to unzip output
- How and why to use incremental exports

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Using the API to create data exports

- Data exports are asynchronous so you must run one request to generate an export, and then another to download that export
- Add query parameters to the body of the request to fine-tune your export so that you only grab the data that you need
- Declare your data export type (Asset/Vulnerability/Fix) and file format (XML/Json) in the body of the request

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Using Gzip

- Data exports are condensed into a zipped file format called Gzip
- Gzip utilities are built into Linux/Mac OS, but you may need to install additional software such as 7zip to extract on Windows

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Incremental Exports

- Export file sizes can be huge! Use incremental exports to only download data that has changed or been added since your last export
- Both relative time ranges and literal date/time stamps can be used e.g. (“records_updated_since” : “now-1w”) or (“records_updated_since” : “2021-01-01”)

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Interactive Poll

- Which of these is not a benefit of incremental exports?

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Thank you

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Jared Kalmus, Customer Success Engineer