

**Database for logs**

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Analyse et correction de bugs Windows

Table des matières

[Introduction 3](#_Toc122600597)

[1. La technologie la plus adaptée au stockage de logs 4](#_Toc122600598)

[2. Mise en place de la base de données et présentation des logs 7](#_Toc122600599)

[a. Elastic Cloud ou Elastic on premise ? 7](#_Toc122600600)

[b. Mise en place de la base de données 7](#_Toc122600601)

[c. Présentation des logs 8](#_Toc122600602)

[3. Analyse à chaud : envoi d’e-mail en cas de problème. 10](#_Toc122600603)

[a. Les canaux d’alerte disponibles 10](#_Toc122600604)

[b. La création de règles d’alerte 11](#_Toc122600605)

[c. Un exemple d’alerte par e-mail 12](#_Toc122600606)

[4. Analyse à froid : l’évolution du nombre d’alertes 13](#_Toc122600607)

[a. Anomaly Timeline 13](#_Toc122600608)

[b. Analyse d’un évènement anormal 14](#_Toc122600609)

[Conclusion 14](#_Toc122600610)

[Bibliographie 15](#_Toc122600611)

## **Introduction**

L’objectif premier de ce projet est de mettre en œuvre une base de données dont l'objectif est d'héberger les journaux (logs) d'équipements, logiciels , systèmes d'exploitation, équipements. Ensuite, il faudra qu’à partir de cette base nous puissions l'analyser les logs de la base de données à froid et à chaud.

Dans un souci de réalisme, nous réaliserons l’ensemble du projet en nous appuyant sur un cas d’usage. Pour cela, nous avons la possibilité de faire une démonstration sur un exemple de cybersécurité comme une tentative d' intrusion ou un dysfonctionnement pour une analyse et une correction de bugs.

Dans notre cas d’usage les logs seront probablement stockés en termes de jours, voire mois, avec une nécessitée de pouvoir facilement et rapidement accéder aux données. Nous allons nous placer comme les responsables du parc informatique d’une entreprise.

Nous aurons besoin de récupérer les évènements enregistrés sur les machines pour prévenir les problèmes techniques, les défaillances et les failles potentielles de sécurité. Dans ce contexte nous allons mettre en place un système permettant de récupérer les logs Windows des postes de travail de manière automatique et stockés dans une base.

Une fois la base mise en place, nous pourrons distinguer deux types d’analyse : l’analyse à chaud et à froid. L’analyse à chaud, va nous permettre d’analyser chaque nouveau log pour y détecter des warnings, des erreurs ou d’autres choses qui peuvent nous servir. Ainsi, la sécurité immédiate de l’entreprise sera assurée contre les attaques cybers.

L’analyse à froid, nous permettra de faire une analyse d’ensemble pour faire ressortir des informations pertinentes, des rapports détaillés de l’état des machines. Ainsi, nous pourrons assurer la sécurité de l’entreprise sur le long terme en détectant des failles plus discrètes.

Nous étudierons 4 points dans ce rapport. Nous commencerons par étudier les technologies disponibles pour stocker des logs et garderons la plus adaptée. Dans une deuxième partie, nous allons mettre en place la base de données de logs et présenterons les logs. Troisièmement, nous étudierons la mise en place d’un système d’analyse à froid des logs. Enfin, nous allons mettre en place un système d’analyse à chaud.

## La technologie la plus adaptée au stockage de logs

Nous n’avons pas de technologie de base de données imposée. La première étape de choix du type de base de données est donc cruciale. En effet, notre choix s’il n’est pas pertinent rendra notre projet difficile à mettre en place, si ce n’est impossible. Il existe plus de 343 bases de données, nous devons donc choisir des critères discriminant pour faire notre choix.

Dans un premier temps, il est important que la technologie soit connue. Cela nous permettra d’avoir accès à de nombreux tutoriels, à une communauté active. Cela permettra faciliter notre installation. Pour être adaptée, il faudra également que cette base de données puisse répondre aux critères ci -dessous : Collection, Transport, Traitement, Stockage, Recherche, Visualisation de logs. Aussi, comme la plupart des logs se présente au format JSON, il faudra que la base puisse lire ce format facilement.

Une première pré-sélection nous a donné la liste ci-après :

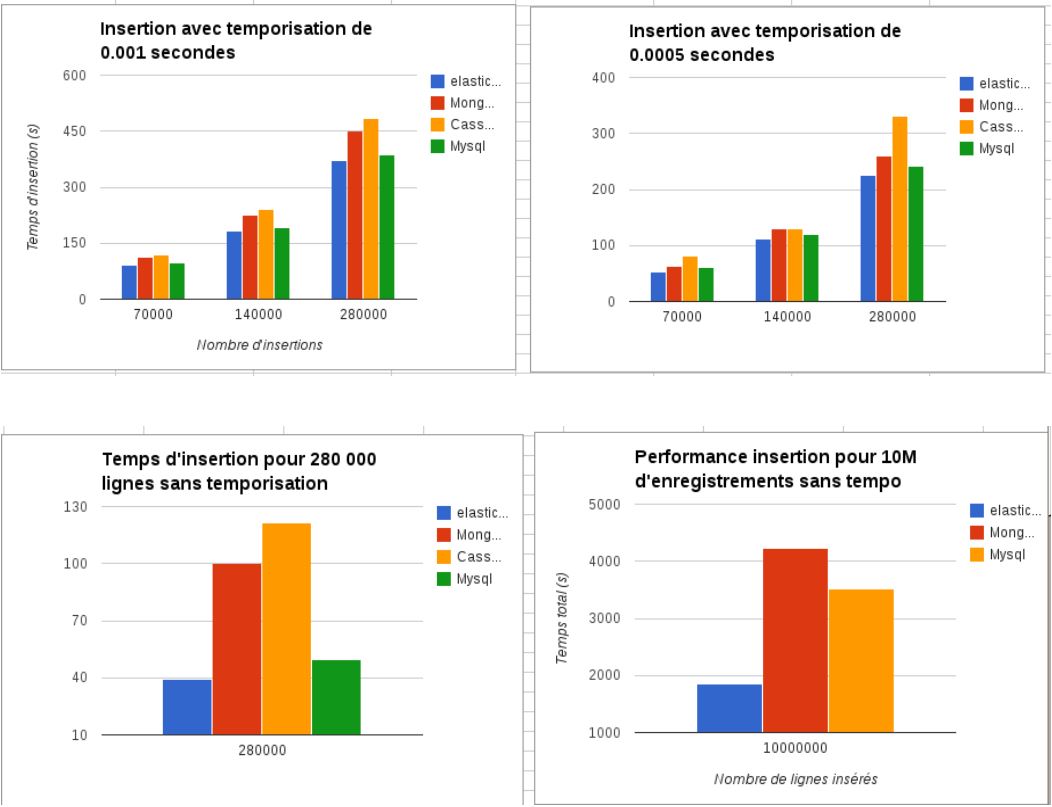
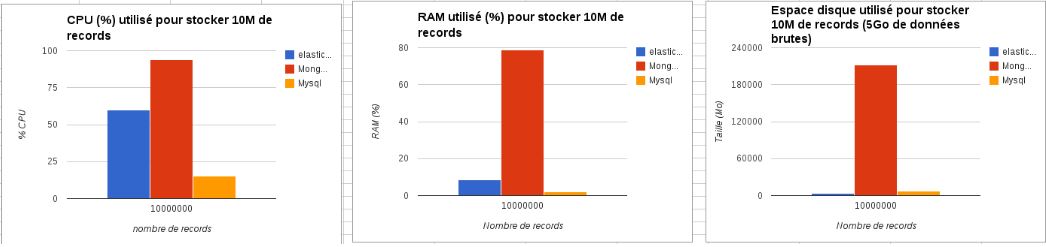
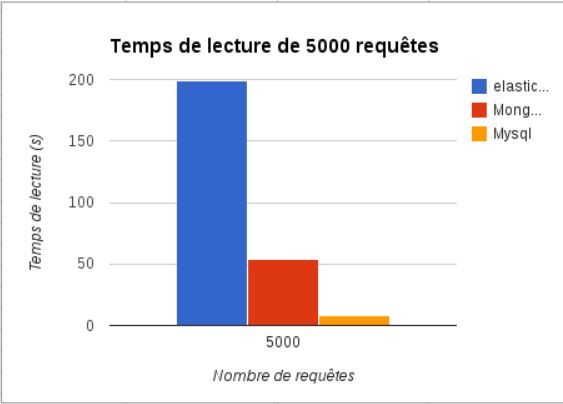
* Cassandra
* MySQL
* elasticsearch
* MongoDB

Après avoir fait nos recherches sur des sites Internet spécialisés, deux technologies sont ressorties comme étant les plus adaptées. Ce sont des bases NoSQL et distribuées dont leur renommée n’est plus à faire.

**MongoDB** semble être la solution de base et répondre plutôt bien aux attentes, surtout en termes de stockage. En effet, MongoDB est une base NoSQL et est faite pour lire des données au format JSON.

Le combo qui apparait gagnant implique **Logstash-Forwarder** pour la collecte et le transport, **Logstash et Riemann** pour le process, et **Kibana3** pour la visualisation.

Nous avons tout de même comparé les 4 technologies citées précédemment suivant 3 critères qui nous sont apparus comme primordiaux : l’insertion de données, la consommation de ressources CPU, le temps de lecture. Ces critères ont été mesuré sur des données de types logs afin de correspondre à nos besoins.

* L’Insertion de données :
* La consommation :
* Le temps de lectures en secondes pour 5000 requêtes :

Les tests ont été réalisés en essayant d’être cohérent pour un comparatif pertinent même si d’autres workbench dans d’autres circonstances et avec d’autres paramètres pourrait être très différents.

Au niveau des résultats, **Cassandra** sort gagnant avec des très bons temps de lecture et d’écriture tout en ayant une faible consommation. Malgré cela l’équipe qui a réalisé ces tests ont finalement décidé d’utiliser **ElasticSearch** pour leur projet, Les atouts sont la facilité de mise en place et les avantages liés au services annexes comme **Kibana**.

ELK Stack, MongoDB et Cassandra sont tous des outils populaires qui peuvent être utilisés pour la gestion de journaux. Voici une comparaison de la façon dont ces outils diffèrent:

* **ELK Stack:** ELK Stack est une plateforme d'analyse de journaux qui se compose d'Elasticsearch, de Logstash et de Kibana. Elasticsearch est utilisé pour stocker et indexer les journaux, Logstash est utilisé pour collecter et traiter les journaux, et Kibana est utilisé pour visualiser et analyser les journaux. ELK Stack est un outil puissant et flexible pour l'analyse de journaux et est largement utilisé dans une variété d'environnements.
* **MongoDB:** MongoDB est une base de données orientée documents conçue pour stocker et interroger de grands volumes de données. Il peut être utilisé pour stocker des journaux, mais il n'est pas spécifiquement conçu pour l'analyse de journaux. En revanche, il est plus souvent utilisé pour stocker et interroger des données pour des applications et d'autres fins.
* **Cassandra:** Cassandra est une base de données distribuée conçue pour stocker et interroger de grandes quantités de données sur de nombreux serveurs. Il peut être utilisé pour stocker des journaux, mais comme MongoDB, il n'est pas spécifiquement conçu pour l'analyse de journaux. Il est plus souvent utilisé pour stocker et interroger des données pour des applications et d'autres fins.

En général, ELK Stack est la meilleure option pour l'analyse de journaux, car il est spécifiquement conçu à cet effet. MongoDB et Cassandra sont des bases de données plus généralistes qui peuvent être utilisées pour stocker des journaux, mais elles ne proposent pas le même niveau de fonctionnalités d'analyse de journaux que ELK Stack.

## Mise en place de la base de données et présentation des logs

### Elastic On Premise, dans un Docker ou Cloud?

**Elastic On Premise** est la solution gratuite de la suite Elastic, qu’il faut mettre en place soi-même et sur son matériel. L’avantage de cette solution est qu’elle est entièrement gratuite. Le choix de cette option est intéressant si l’entreprise possède une équipe dédiée à la gestion de l’infrastructure informatique.

**Elastic Cloud** est une solution entièrement sur le cloud et mise à disposition par l’entreprise Elastic. C’est une solution payante, mais qui possède l’avantage de pouvoir utiliser la suite Elastic sans rencontrer aucune difficulté de mise en place. Aussi, en étant sur le Cloud l’entreprise bénéficie d’une grande flexibilité avec la possibilité d’augmenter la taille de stockage en 2 clics.

La solution qui parait donc être la plus adaptée à notre cas d’usage est l’option On Premise. Nous avons donc dans un premier temps choisi cette option. Cependant, nous avons rencontré des difficultés quant à l’installation de la suite, ce qui nous a retardé dans la réalisation du projet. Nous avons été contraints de nous passer de l’installation On Premise pour respecter les délais du projet.

Nous nous sommes ensuite tournés vers un **container Docker**. Ce container avait déjà l’ensemble de la suite ELK Stack d’installé sur une distribution Debian. L’avantage de cette solution est la compatibilité de l’installation de la suite avec n’importe quel ordinateur du parc informatique de l’entreprise. Cependant, nous n’avons pas réussi à installer les modules complémentaires. Or, ces modules sont essentiels pour connecter les ordinateurs du parc informatique à la base.

Afin de pouvoir finir le projet dans les temps, nous avons donc fait le choix de nous tourner vers la solution Cloud d’Elastic. Nous avons bénéficié d’un essai gratuit de 14 jours de la version Cloud. Nous avons pu en quelques clics déployer une instance de la suite Elastic, puis installer les modules nécessaires à la collection des logs de nos ordinateurs.

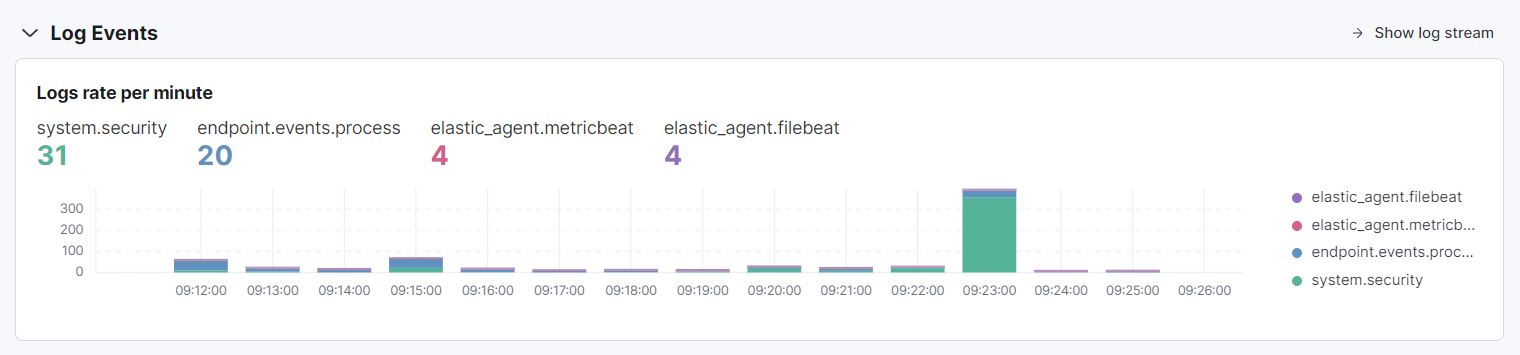
### Mise en place de la base de données

Voici un aperçu général de la configuration et de l'utilisation d'Elastic Cloud pour l'analyse des journaux :

1. Ouvrez un compte Elastic Cloud : accédez au site Web d'Elastic Cloud et créez un compte. Vous devrez fournir votre adresse e-mail et créer un mot de passe.
2. Créer un déploiement : un déploiement dans Elastic Cloud est un regroupement logique d'instances Elasticsearch et Kibana que vous pouvez utiliser pour stocker et analyser vos données. Pour créer un déploiement, accédez au tableau de bord Elastic Cloud et cliquez sur le bouton « Créer un déploiement ». Choisissez le nombre d'instances Elasticsearch et la quantité de stockage et de mémoire que vous souhaitez allouer à votre déploiement, puis cliquez sur le bouton "Créer un déploiement".
3. Configurer la collecte de journaux : pour collecter des journaux avec Elastic Cloud, vous pouvez utiliser Logstash ou Filebeat pour envoyer les journaux à votre déploiement. Pour le configurer, vous devrez installer et configurer Logstash ou Filebeat sur les serveurs ou appareils qui génèrent les journaux. Ensuite, vous devrez créer un fichier de configuration qui spécifie comment Logstash ou Filebeat doit envoyer les journaux à Elastic Cloud.
4. Visualisez et analysez les journaux dans Kibana : Une fois vos journaux collectés et stockés dans Elastic Cloud, vous pouvez utiliser Kibana pour les visualiser et les analyser. Kibana propose une gamme d'options de visualisation, notamment des graphiques linéaires, des graphiques à barres, des graphiques circulaires, etc. Vous pouvez utiliser ces visualisations pour comprendre vos journaux plus en détail et identifier des tendances ou des modèles.

### Présentation des logs Windows

Sur Kibana, nous avons la possibilité de voir en temps réel les logs enregistrés et les différents types de logs.



Le premier, *system.security* correspond aux logs Windows récupérés sur les postes de travail, les trois suivants sont des logs de base pour suivre le fonctionnement de filebeat, metrics et des process de ELK Stack.

Pour simuler des postes de travail d’une entreprise, nous avons utilisé nos deux ordinateurs pour envoyer automatiquement les logs Windows à ELK via une Intégration (module) appelé Custom Windows Event Logs.

![Une image contenant texte

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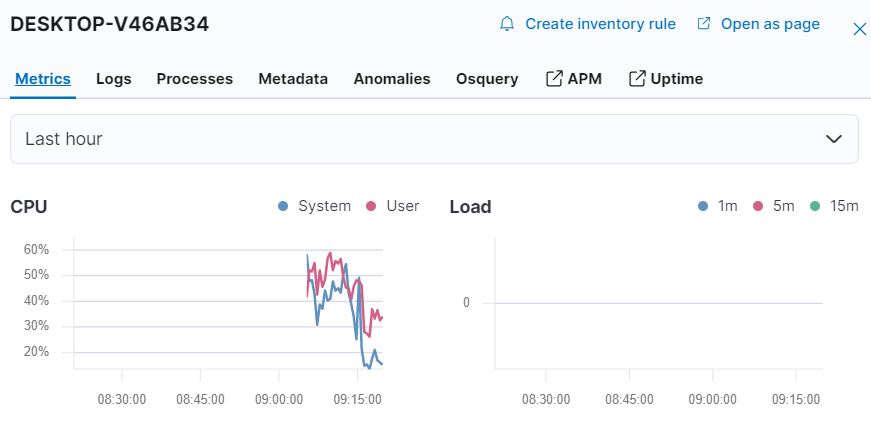
Une fois le module installé, nous avons pu effectuer la mise en place d’un agent sur les deux machines pour écouter les logs Windows et les envoyer sur le serveur cloud.

![Une image contenant table

Description générée 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Sur l’image ci-dessus, nous pouvons voir nos deux postes avec quelques informations générales comme le nom du poste, le CPU ou encore le uptime.

Si on veut analyser un poste en particulier pour détecter des possible problèmes on peut simplement cliquer sur l’un des noms pour avoir accès à une myriade d’informations.



Nous pouvons bénéficier d’informations comme des métriques du poste (CPU, Network, etc…) ou voir les logs, les processus lancés sur le PC et bien d’autres.

Une image contenant table

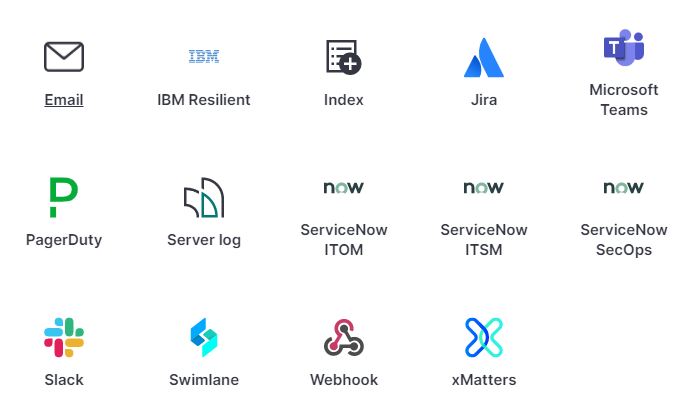
Description générée automatiquementDans les logs Windows, nous avons beaucoup de champs qui sont collectés et stockés dans notre base. En voici une description détaillée d’un extrait des champs disponibles :

## Analyse à chaud : envoi d’e-mail en cas de problème.

Une fois toutes les informations importantes collectées, nous avons mis en place des alertes automatiques qui permettent de surveiller les machines et effectuent des actions suivant des conditions spécifiques, comme un excès de warnings, des erreurs, ou des comportements particuliers.

### Les canaux d’alerte disponibles

Elastic permet de mettre en place un système d’alerte. Il est possible de paramétrer l’envoi d’une alerte sur un ou plusieurs canaux lorsqu’une condition est remplie. Les canaux disponibles pour l’envoi d’alerte sont très variés. Cela permet à chacun d’y trouver celui qui est le plus adapté, en fonction de nos habitudes, usages et besoins.

Parmi ces canaux nous retrouvons :

Pour chaque canal, il est possible de personnaliser le message en précisant le type d’erreur, l’ordinateur, et plein d’autres possibilités en fonction des champs présents dans les logs Windows.

### La création de règles d’alerte

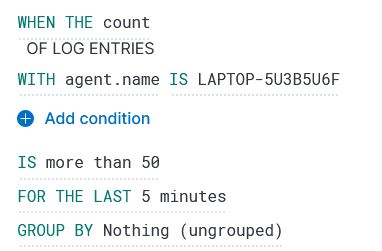
Il est possible de créer des règles répondant à différents critères, en fonction des logs. Nous avons la possibilité de créer des règles répondant aux critères suivants :

* **Anomalie :** Alerte lorsque la latence, le débit ou le taux d'échec des transactions d'un service est anormal.
* **Seuil du nombre d'erreurs :** Alerte lorsque le nombre d'erreurs dans un service dépasse un seuil défini
* **Seuil du taux d'erreurs de transaction :** Alerte lorsque le taux d'erreurs de transaction dans un service dépasse un seuil défini.
* **Seuil de latence :** Alerte lorsque la latence d'un type de transaction spécifique dans un service dépasse un seuil défini.
* **Logs :** Alerte lorsque les logs dépassent un seuil défini
* **Seuil de métrique :** Alerte lorsque l'agrégation des métriques dépasse le seuil.
* **Seuil de logs :** Alerte lorsque l'agrégation des logs dépasse le seuil
* **État de disponibilité des moniteurs :** Alerte lorsqu'un moniteur est hors service ou lorsqu'un seuil de disponibilité est dépassé.
* **Uptime TLS :** Alerte lorsque le certificat TLS d'un moniteur Uptime est sur le point d'expirer.

En fonction de chaque type d’alerte, il faut renseigner la condition pour que l’alerte se déclenche, ainsi que le canal sur lequel il faut envoyer l’alerte.

La condition est définie en fonction des champs disponibles dans les logs Windows. Ainsi, lorsque nous avons choisi un type d’alerte et qu’un champ en particulier a une certaine valeur, alors une alerte est envoyée.

### Un exemple d’alerte par e-mail

Pour notre cas d’usage, nous avons choisi une alerte par e-mail qui se déclenche lorsque les logs dépassent un seuil défini. Un cyberattaquant peut vouloir installer des logiciels espions, envoyer des virus ou recevoir des fichiers confidentiels. Or, cela causera une augmentation de l’activité sur l’ordinateur, ce qui se traduira par une activité plus importante sur un ordinateur, ce qui sera détecté par notre règle.

Une activité plus importante que la normale peut donc être signe d’une attaque par un cyberattaquant.

Nous avons donc paramétré un envoi d’e-mail dès que le nombre de logs dépasse 50 en moins de 5 minute sur l’ordinateur LAPTOP.

![Une image contenant table

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD2RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAcAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENsw6ltZW50IE1hcmllAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADODQAAJKSAAIAAAADODQAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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le pc LAPTOP, nous avons volontairement augmenté l’activité pour simuler une attaque cyber. Pour ce faire, nous avons ouvert une dizaine de logiciels. Grâce à la règle que nous avons précédemment configurés dans elastic Obersavbility, nous avons immédiatement reçu une notification nous alertant.

![Une image contenant texte

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD2RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAcAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENsw6ltZW50IE1hcmllAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNzUAAJKSAAIAAAADNzUAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Lorsque nous ouvrons le courriel, Kibana nous informe que 146 logs ont été enregistré dans les dernières 5 minutes. C’est alertant car nous avons définit précédemment que le seuil de logs correspondant à une utilisation normale est de 50 toute les 5 minutes. Nous pouvons donc supposer qu’il se passe quelque chose d’anormal sur LAPTOP, cela pourrait être une cyber attaque.

Cet alerte e-mail, nous permettrait dans notre cas d’usage de prendre des mesures rapidement pour contrer cette attaque. Ainsi, l’intégrité de notre entreprise serait préservée. Aussi, cela nous permettrait de prendre conscience de certaines faiblesses sur notre réseau ainsi que sur notre parc informatique.

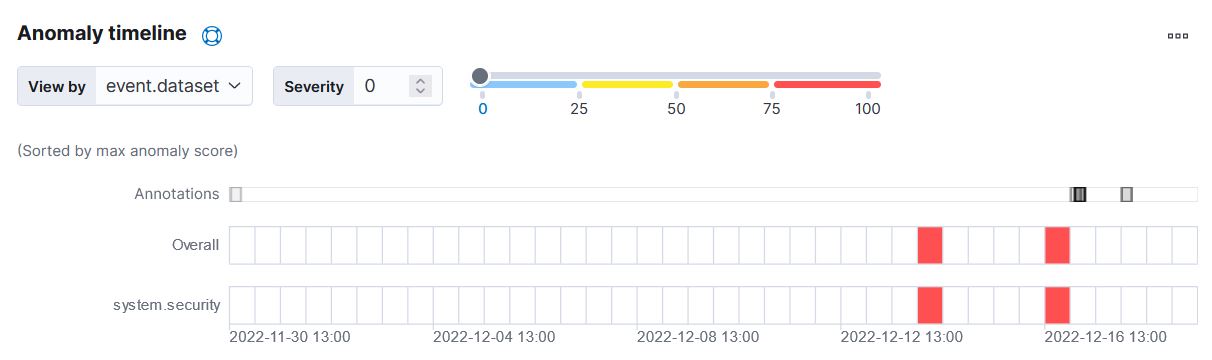
## Analyse à froid : l’évolution du nombre d’alertes

### Anomaly Timeline

Il est possible d’installer une instance de Machine Learning sur le serveur Elastic. Cette instance permet d’automatiser l'analyse des données chronologiques en créant des lignes de base du comportement normal et en identifiant des patterns anormaux dans les données. Ainsi les anomalies peuvent-être plus facilement identifiées et monitorées.

Elastic nous met a disposition des Job de Machine Learning qui sont spécialisé dans la détection d’anomalies. Ils sont déjà configurés et prêts à l’emplois. Il n’y a qu’à cliquer sur activer les Jobs, c’est l’avantage de la solution Cloud d’elastic.

Ces jobs permettent de :

* Logs : Détecter des anomalies dans le décompte des entrées du journal par catégorie.
* Logs : Détecter les anomalies dans le taux d'ingestion des entrées du journal.
* Métriques : Hôtes - Identifier les pics inhabituels d'utilisation de la mémoire sur les hôtes.
* Métriques : Hôtes - Identifier les pics inhabituels de trafic entrant sur les hôtes.
* Métriques : Hôtes - Identifier les pics inhabituels de trafic sortant sur les hôtes.

Sur l’image ci-dessus, on voit que les Jobs mis en place par Elastic détectent les erreurs et leurs attribuent une note en fonction de leur gravité. Pour chaque Job, nous retrouvons ce graphique montrant l’évolution du nombre d’anomalies au fil du temps et en fonction de leur gravité.

### Analyse d’un évènement anormal

![Une image contenant texte

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD2RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAcAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENsw6ltZW50IE1hcmllAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMDUAAJKSAAIAAAADMDUAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAp6/dFMp6/dFAC0UUUhhSN900tI33TQAyiiimIKKK57x1rt14a8E6jq+nrE9xbKpQTKSpy6jkAjsfWk3YaV3Y6GivNdK8f6vZeJbLT/FE+iz2l7ZSXfn6eXBtgi7j5gYnjANb+k/EXQ9WuGiIvLH9w1zC99bNCtxCoy0kZPVQOexxVNW/r+uxKdzq6K43T/ihoOo3tlbxxahD9vlZLWW4tTHHMFGS6seCv6juBUunfEfRNU1KO0to74LcF1s7mS2KQ3jLnKxueCeD1xRZjOtorl9L+IGi6zeWFppxuJbm9Eh8nysNAIzhjKM/Lzx71r6rqhsNkcEPnzujybSxVURcbnYgE4GQMAEkkcUWYGjRWNpWuveTrDd24heQssbKWwWX7yEMoKsBzjGCMkGtmkAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABT1+6KZT1+6KAFooopDCkb7ppaRvumgBlFFFMQVz/jnQbrxN4K1DSLB4Y7i6VQjTEhBhw3JAJ6D0roKKTVxp2dzzGT4TfZ9RnGkfYrWw1LSjZXyAHfHLjiSPjkEgZBK55/Cpo/wturWOQaza6ZDFFp8tv9osprqedyyFCwVmCrwfugHJ4GO3fXXivTLPxFDosxn+2TKSqiBznBXpxlh833hkDa2SMVBB4uSXUoIJdKvre1up3t7a8lCBJZFDEjbu3gEI2CVGcfSqbbV+/wDwf8xbfL+v0PItHkufEeteFNB/tC01G303zoSLG2ljkhh8vbumLgBW6DAHX14rp/Dfws1HRdUsGuLbR54tOlaWO7+0XPmykcp8mdiH1PzD2Nd7H4ptJfBZ8TLDOLQWzXPlkDzNoBOMZxnj1q+2raek0cMt9bRzStsSJ5lDM2AdoGck4IOPcVV2nbr+orK3kcN4V8Ba34e8Wf2/Pd2M9xqXnf2tGuQqln3IYTtycdwcZrtL+3uUvoL+xjWaSJGikhLbS6MQeD03AqOvByeRVibULK2uobW4u4Irif8A1UTyqryf7oJyfwqzU30SDq2YWl2F2TYi6t1tYbIMwXI3SyspUsQGbAwzfxMSW9ud2s251y1g0NtUtxJfQcCNbVd7SkttAUfXjnAHeoNM8RxXn21NQtpdKnsNpuI7t0wisMq29WKkHB79jQM2aKqrqlg+n/b1vrZrPG77SJl8vHruziseXxrpkVw0a75UW7gtBNGVMbGVNysDn7oHU0eQHRUVVg1KxubE3lte281qoJM8cqsgx1+YHHFVNK1yHUNCGq3DW9tbsWYP9pV1CAkBmYcAkYJGTjOM0gNWis8avDLcWK2ZjuoLzftuIp4yoCjORzls9PlBx3qeDUbK5uJoLa8t5prc4mjjlVmjP+0AePxoAs0VVt9UsLu4MFrfW08yoJDHHMrMFPRsA5wfWpLu7t7G1e4vJVhhTG53OAMnA/U0ATUVl6vrMmmy28Frpl3qVzcbikVvsUKq4yWZ2VR1GOcn86baeJdLudFttTmuo7KC5JVBdusZDgkFDk4yCCOCelAGtRUQuITI0Ymj3qgdl3DIU9CR6cHn2p0ciTRLJE6yRuAyupyGB6EGgB9FVDqdp9mu50lEiWZZZxGCxRlGSuBznBHHvWbpPicajfizu9LvNMme3+1Qi6Mf7yIEAn5GbaQWGQcHn60AbtFUYda0u4iMtvqVnLGoJLpOrAYIB5B7EgfiKJNZ0uK0N1LqVmluJDEZmnUIHHG3OcZ9qAL1FRi4hMyxCWMyMm9UDDJX1A9ORzVabWNNtofOuNRtIotu7e86quM4zknpnj60AXaKrXGoWVnZi7u7uCC2OMTSyqqHPT5icc1OjrJGrxsHRhlWU5BHrQA6ioI7y3luZ7eOZWmt9vmoDym4ZGfqK55PG8W4Nd6TqFpbzQyzWs0yoPtAjUswChiykqCRuAyPTpQFrnUUVnQ67p8mn2F3PdRWq6hGjwJcSKjPuAIUAnk8jgZqxdahZWLxJe3kFu0zbYlllVDIfRcnk/Sm007CvdXLNFVptSsba7itbi8t4rib/VQySqryfRScn8Kg0/V4dRv9RtIUkV9PmWGQsBhiUV8jnphhSGaFFQtdwJex2jSqLiRGkSPPLKpAJ+gLD86xLvxalnqDxyaVfGyiuEtZb/CCNZHKgAKW3sMuAWCkZ/Gjd2A6Gisu01qO41+90qTyEmtwjxhLhXaRSOSU6qQR0PYg554v3NxDZ2stzdSLFDChkkdjgKoGST+FHmHWxLRWZqusf2db27W1lcajNdPshhtgvzfKWyWYhVXA6k+nWorLxPp1zpRvruVdNVZ3t5EvZEjMcqsVKE5Kk5HYnNMDYorL1zWotG00XGYHkldY4I5bhYVkZiB949hnJ4PA6Grd1qNlYLGb+7t7bzW2p50oTe3oM9TSAs0VEbmANKpmjDQqGkG8ZQHoT6Dg/lVW61mxto2/0q3eYoWjh89FaQ7dwAyQOQM/TnpQBforIs/EunXepR6b58ceoPbJcG2MisVDDOMqSCe/GeOelSWesx32uXthb+Q6WaJvkW4Vm8w5yuwcgAY5OOTjHFOwjToqG6u4LKDzruVYY9ypuY4GWYKo/EkD8az9W1uTTrmG2tNKvNSuJkaTZb7FCIpAJLOyjPPAzk/rSGa1FZVr4k0q50my1F7yK1hvlDQi5kWNmJ/hwT17YFXLrUbKyeJL28t7dp22xLLKqGQ+i5PJ+lOzvYCzRWTN4j06LVLrTEuI5L+3t/tBt/MVSw+bjJIAPy9+gIJ4q3aahDdWQuC8cZWNXlTzVbysqGwxUkdD1zjv0peYeRborK1DXIbS8061ha3mlv5QqhrlUxHgkuOpboAABySOnWrkmoWUN7HZzXkEd1KMxwNKodx6hc5NAFmiis251y1g0NtUtxJfQcCNbVd7SkttAUfXjnAHegDSorF03xJFdrfLqFrLpU+nhTcxXToQisMq25WKkHB79qij8W2EPh+y1XVpYLNL2RY41W4WQZZsL8w46YJxwOeTjNAG/RWXqOtxWV7p1pEbeWa+lCqr3Kx4TBJcA8t0AAA5JHTrWpQAUVnXOt2kGiSapB5l5AmQq2q72kYNt2qPXdx6etV9L8RJeyXsN/ZzaXc2Kq88V08ZCowJV9yMVx8p78YNAGzRWVpOuQ6jo8Woztb20UzsI8XKuCMnb8w4yQM4GcdMnFW4dTsLm2juLe9t5YZX2Ryxyqyu3TaCDgn2pgWqKry39nAWE93BGUOG3yAbTt3YOenAJ+nNRRaxpk726Q6jaSNcqWgVJ1JlA6lefmH0pAXaKzJtZjTxFbaRF5DyyRPLLm4VXjUYxhOrEk+wABOegNgapp7SSRrfWxeNGkdRMuVUHBYjPABGCfWgC3RWZo+sx6ppB1J/Iht977WW4WRfLUkBmYcAkDJGTj1q5aXlrf263Fjcw3MLfdkhkDqfxHFAE9FYi+LNMbxKdDBn+2hdxXyH9SOmM7eM78beRzW3R0uHWwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAU9fuimU9fuigBaKKKQwpG+6aWkb7poAZRRRTEFVtQvBp+nzXbQXFwIl3eVbRmSR/ZVHJNWaKAMebwzo97rEWrz2MbXajIdkGSfkIY8ZyuwY9Mn1NV47BL7xrdXV4LqT7DDGtossLLDEzBt7I2cOxBAJxlRx3NdBRRurAeaRvdwfDV/B50vUW1f7O9iFFpJ5JySBL52PL2YOfvZ7YzUmpeHnn03x276U01zKQbNzbkvIVt02mM4ycODjHcV6PRTvdt9X/wA6ryPK9b0i7fU9dh1BLpm1B0Nu0GjG6eRPLVVCy5AjZWB4Yrg/Nnmu+UDV7S4sJDqNq1s6xvcANA0pCg7kYdRzgkd8itaijpYVjnPB/hyXwzoKQXN1PPMFbepmaRF+ZiNgPTg8+prBmsHtfBdrdLYy3t1f3Uc2oXGoadJNMhGf3htwd3ykKAo4UHOOteg0UdbjPKbGwuY7yS9vdPvbvSo9aFxLG2mtGZFNsFEwgC5IEmDgAt3PINObSP7Qv7trXQbmLTrjxDZTLFLZsivEI8PIUI4XOScgdecV6pRTTs7+n4W/wAhf1+f+Z5p4g0K9Goav/Z9k8diNQsriRI7MyLKixkMyxjAkw2wkDn5e54pg0mObS9RuZP7VaGW+t5Vkg0XylWRB/rfs7ZZ1+6G+XJwCM4yPTqKV7f16f5D/r8/8zzCGz1jULrTnt9O+yMs2oCO7hsXtVcvb4SZ42yYyXJHJ5xnvVnTrOKZ/DtvpOiXdhdabG4vpJLNogi+SytHvIAlLOVPyls43V6NRSeqt/Wn/Dh/wfxPOtD0NtO0bwPcJpMkN1bFvtZS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anomalies sont ensuite listées et triées en fonction de leur gravité. Dans ces listes, nous pouvons avoir le détail de pourquoi le log a été flaggé en tant qu’anomalie.

Sur la capture d’écran ci-dessus, nous avons une anomalie avec une sévérité maximale (99). Dans le détail de cette anomalie, nous apprenons que l’ordinateur LAPTOP-5U3B5U6FS a fait une adhésion au groupe local à sécurité activée. Cet événement est généré lorsqu’un processus énumère les membres d’un groupe local activé pour la sécurité sur l’ordinateur ou l’appareil.

Or pour rappel, dans notre cas d’usage nous sommes une entreprise qui possède son propre réseau et son propre parc d’ordinateur. Nous disposons donc d’une liste de groupes de sécurité locaux critiques dans l’organisation et nous devons les surveiller spécifiquement. Pour tout accès au réseau, il est donc nécessaire de surveiller ces évènements afin d’assurer la sécurité de l’entreprise.

## Conclusion

En conclusion Elastic Cloud est une solution tout en un qui comprend Logstash, Elastic et Kibana déjà installés et prêt au déploiement. L’avantage notable de cette solution est que n’importe qui peut déployer et mettre en place une base de données. En effet, la solution Cloud est une solution clique-bouton, sa mise en place ne nécessite donc pas de savoir coder.

Il est possible de personnaliser la Stack ELK avec un nombre incalculable de modules tous plus différents les uns que les autres et répondant à des besoins divers. La ou la solution On Premise rend l’installation de modules complexe, la solution Cloud sait rendre leur installation et utilisation agréable et facile.

Aussi cette solution nous a permis de travailler collaborativement, ce qui a facilité la mise en place et le réalisme de notre cas d’usage. Elle permettrait à notre entreprise une plus grande flexibilité en pouvant adapter la taille mémoire et le CPU de nos serveurs en quelques clics.

L’inconvénients majeur est le prix qui est de 95 USD par mois, une fois que les 14 jours d’essais sont dépassés.

Ce sujet fut intéressant, nous avons pu découvrir une technologie sympathique et puissante, tant au niveau de sa construction interne que par les possibilités qu’elle offre aux entreprises et organisations. Ce sujet nous a permis de découvrir des aspects importants de la cyber sécurité et une meilleure compréhension des logs en général.

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