**Sujet 1 :**  Mettre en œuvre une base de données dont l'objectif est d'héberger les journaux (logs) d'équipements, logiciels , systèmes d'exploitation, équipements dans le but de permettre l'analyse à froid et à chaud . Faire une démonstration sur un exemple concret (Cybersécurité : tentative d' intrusion ou dysfonctionnement pour analyse et correction de bugs , …)

Recherche de la techno à préconiser :

* MongoDB
* ElasticSearch
* Cassandra
* Mysql
* Neo4j

Pour être performant dans le stockage de logs, une base de données doit pouvoir couvrir ces différents points :

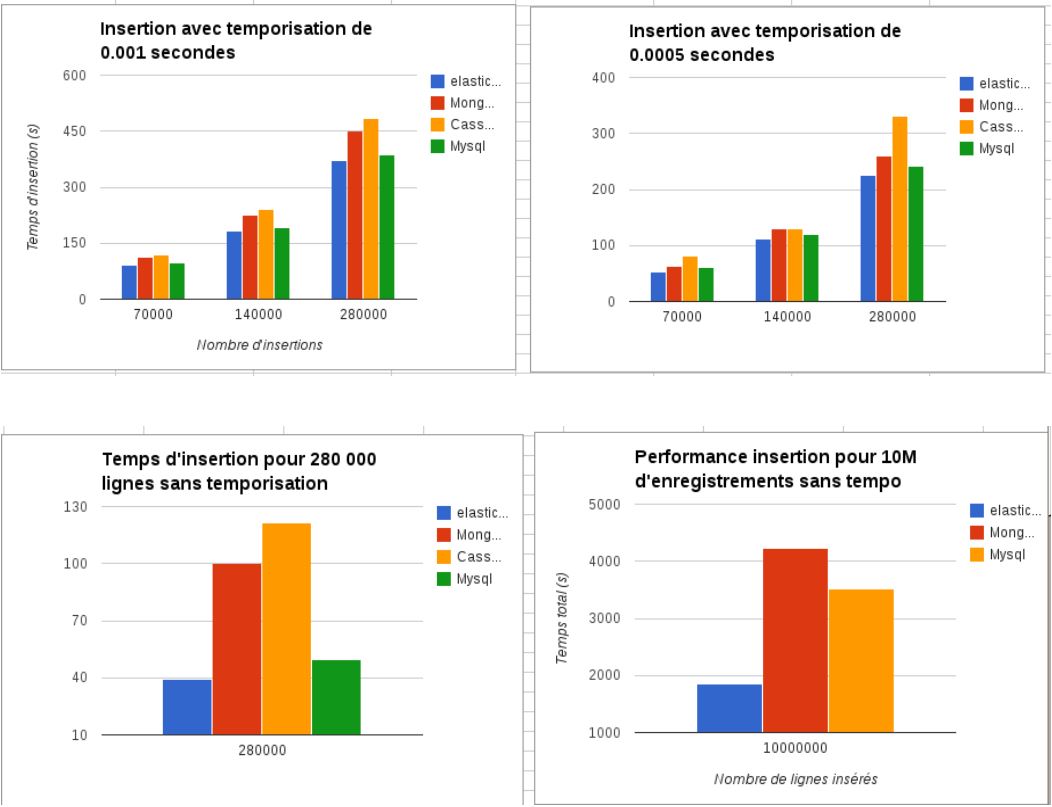
* Collection
* Transport
* Traitement
* Stockage
* Recherche
* Visualisation

MongoDB semble être la solution de base et répondre plutôt bien aux attentes, surtout en termes de stockage.

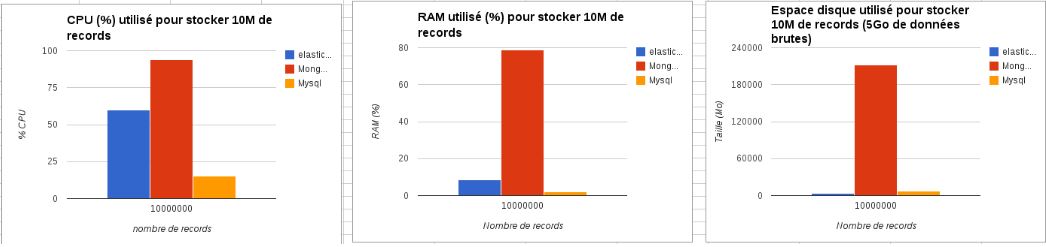
Un combo sort gagnant des recherches, cela implique **Logstash-Forwarder** pour la collecte et le transport, **Logstash et Riemann** pour le process, et **Kibana3** pour la visualisation.

Workbench: ElasticSearch – MongoDB – Cassandra – Mysql

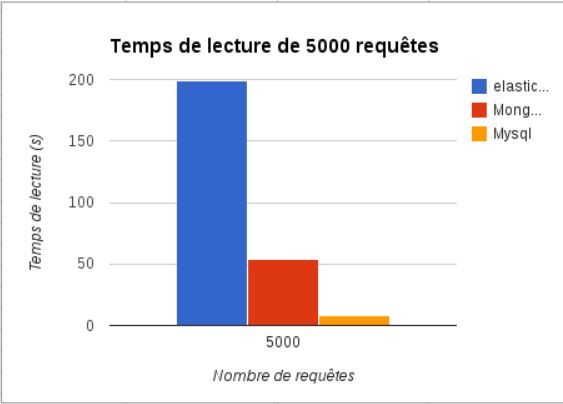
*Insertion*



*Consommation*



*Lecture*



Les tests ont été réalisé 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.

**Cas d’usage :**

Dans notre cas d’usage les logs seront probablement stockés en termes de jours, voir mois, avec une nécessitée de pouvoir facilement et rapidement accéder aux données pour une analyse en temps réel.

Nous sommes responsables des postes dans une entreprise et nous avons besoin de pouvoir récupérer les informations importantes des machines pour prévenir les problèmes techniques, les défaillances et les failles potentielles de sécurité.

Dans ce contexte nous avons mit en place un système basé sur ELK (ElasticSearch, Kibana et Logstash) pour pouvoir récupérer les logs Windows des postes de travail de manière automatique et stockés dans une base.

Une fois dans la base, on peut distinguer deux types d’analyse :

Une analyse à chaud, c’est-à-dire des processus qui vont analyser chaque nouveau log pour y détecter des warnings, des erreurs ou d’autres choses qui peuvent nous servir.

Une deuxième analyse à froid, c’est-à-dire une analyse d’ensemble pour faire ressortir des informations pertinentes, des rapports détaillés de l’état des machines.

Tutoriel pour Elastic Cloud :

Elastic Cloud est une plate-forme basée sur le cloud pour le stockage et l'analyse de journaux et d'autres types de données. Voici un aperçu général de la configuration et de l'utilisation d'Elastic Cloud pour l'analyse des journaux :

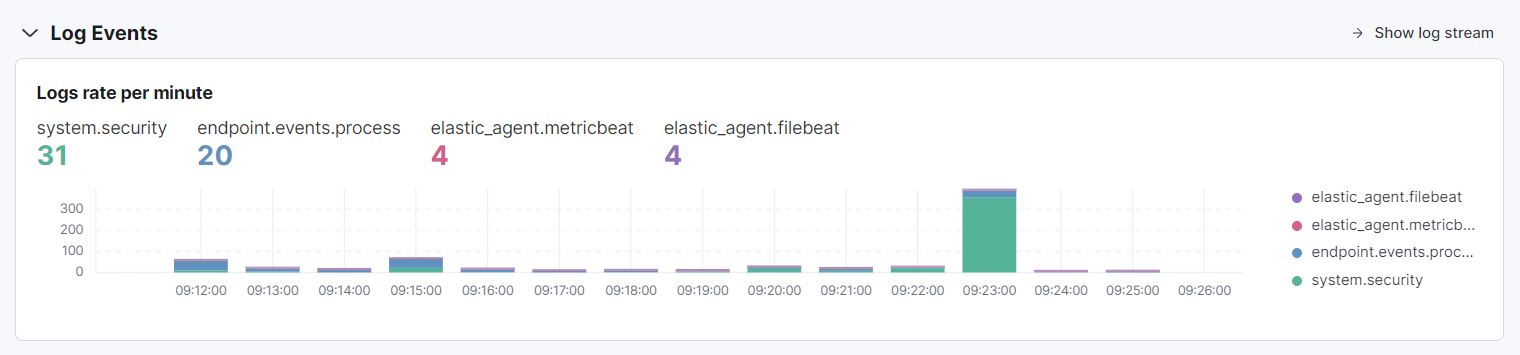
1. Ouvrez un compte Elastic Cloud : accédez au site Web d'Elastic Cloud et créez un compte. Vous devrez fournir votre adresse e-mail et créer un mot de passe.
2. Créer un déploiement : un déploiement dans Elastic Cloud est un regroupement logique d'instances Elasticsearch et Kibana que vous pouvez utiliser 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.

**Event windows description :**

|  |  |  |
| --- | --- | --- |
| @timestamp | Event timestamp. | date |
| data\_stream.dataset | Data stream dataset. | constant\_keyword |
| data\_stream.namespace | Data stream namespace. | constant\_keyword |
| data\_stream.type | Data stream type. | constant\_keyword |
| ecs.version | ECS version this event conforms to. **ecs.version** is a required field and must exist in all events. When querying across multiple indices -- which may conform to slightly different ECS versions -- this field lets integrations adjust to the schema version of the events. | keyword |
| event.created | event.created contains the date/time when the event was first read by an agent, or by your pipeline. This field is distinct from @timestamp in that @timestamp typically contain the time extracted from the original event. In most situations, these two timestamps will be slightly different. The difference can be used to calculate the delay between your source generating an event, and the time when your agent first processed it. This can be used to monitor your agent's or pipeline's ability to keep up with your event source. In case the two timestamps are identical, @timestamp should be used. | date |
| event.dataset | Event dataset | constant\_keyword |
| event.module | Event module | constant\_keyword |
| input.type | Type of Filebeat input. | keyword |
| log.level | Original log level of the log event. If the source of the event provides a log level or textual severity, this is the one that goes in **log.level**. If your source doesn't specify one, you may put your event transport's severity here (e.g. Syslog severity). Some examples are **warn**, **err**, **i**, **informational**. | keyword |
| message | For log events the message field contains the log message, optimized for viewing in a log viewer. For structured logs without an original message field, other fields can be concatenated to form a human-readable summary of the event. If multiple messages exist, they can be combined into one message. | match\_only\_text |
| tags | User defined tags | keyword |
| winlog.activity\_id | A globally unique identifier that identifies the current activity. The events that are published with this identifier are part of the same activity. | keyword |
| winlog.api | The event log API type used to read the record. The possible values are "wineventlog" for the Windows Event Log API or "eventlogging" for the Event Logging API. The Event Logging API was designed for Windows Server 2003 or Windows 2000 operating systems. In Windows Vista, the event logging infrastructure was redesigned. On Windows Vista or later operating systems, the Windows Event Log API is used. Winlogbeat automatically detects which API to use for reading event logs. | keyword |
| winlog.channel | The name of the channel from which this record was read. This value is one of the names from the **event\_logs** collection in the configuration. | keyword |
| winlog.computerObject.domain |  | keyword |
| winlog.computerObject.id |  | keyword |
| winlog.computerObject.name |  | keyword |
| winlog.computer\_name | The name of the computer that generated the record. When using Windows event forwarding, this name can differ from **agent.hostname**. | keyword |
| winlog.event\_data | The event-specific data. This field is mutually exclusive with **user\_data**. If you are capturing event data on versions prior to Windows Vista, the parameters in **event\_data** are named **param1**, **param2**, and so on, because event log parameters are unnamed in earlier versions of Windows. | object |

## Présentation des logs

On peut 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 appelé Custom Windows Event Logs.

![Une image contenant texte

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFsZXhpcwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzY2AACSkgACAAAAAzY2AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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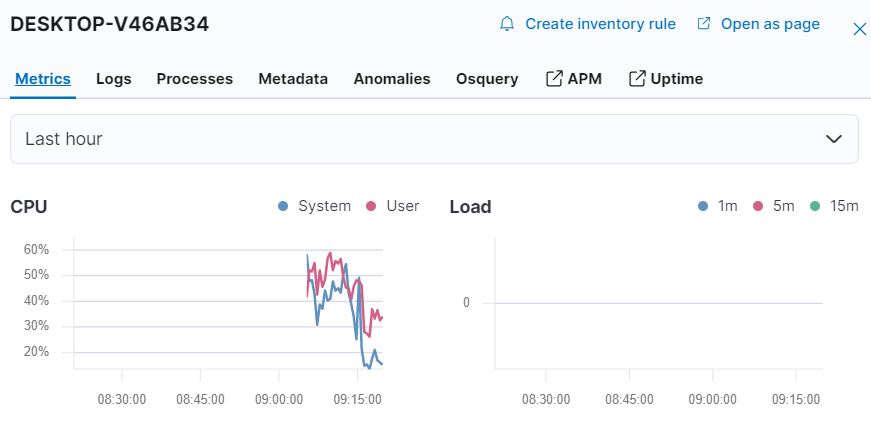
Une fois le module installé, nous avons pu effectuer la mise en place d’un agent sur les deux machines pour écouter les logs Windows et les envoyer sur le serveur cloud.

![Une image contenant table

Description générée 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Sur cette image on peut voir les deux postes, avec quelques informations générales notamment le nom du poste, le CPU ou encore le uptime.

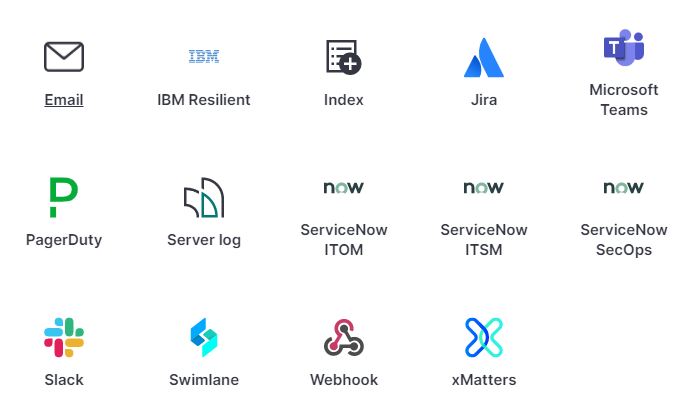
Si on veut analyser un poste en particulier pour détecter des possible problèmes on peut simplement cliquer sur l’un des noms pour avoir accès à une myriade d’informations.



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

Une fois toutes les informations importantes collectées, nous avons mit 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.

En termes d’actions, beaucoup de choses sont possibles :



Il est possible d’envoyer un mail automatique, un message Teams, une tâche Jira et pleins d’autres actions.

Voici une alerte créée qui envoie un mail automatique dès que les logs d’une machine sont trop importants.



**Progression :**

**ElasticSearch**, **kibana**, **logstash** et **filebeat** installés sur la machine distante, ports 9200 et 5601 ouverts, fichiers de config modifiés pour accepter les connexions remote via *10.8.2.35:5601*.

# Bibliographie

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* Tuto complet: <https://medium.com/@vitalypanukhin/elasticsearch-elk-stack-for-log-management-8f4e61a60239>
* Install ELK Ubuntu: <https://infosecwriteups.com/how-to-install-elastic-stack-on-ubuntu-22-04-lts-a2f1b00eced>