**Searches & Use Cases**

| № | Name | [CloudLogging](https://cloud.yandex.ru/docs/audit-trails/operations/export-cloud-logging) | [Elasticsearch](https://github.com/yandex-cloud/yc-solution-library-for-security/tree/master/auditlogs/export-auditlogs-to-ELK_main)GitHub - elastic/elasticsearch-php: Official PHP low-level client for  Elasticsearch. | Comments |
| --- | --- | --- | --- | --- |
| Searches | | | | |
| 1 | Find who deleted a folder (requires values) | json\_payload.event\_type="yandex.cloud.audit.resourcemanager.DeleteFolder" and json\_payload.details.folder\_name="<название каталога>" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.resourcemanager.DeleteFolder and cloud.folder.name: <название каталога> |  |
| 2 | Find who created/stopped/restarted/deleted a virtual machine  (requires values) | json\_payload.details.instance\_id="<<идентификатор виртуальной машины>>" and (json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" or json\_payload.event\_type="yandex.cloud.audit.compute.UpdateInstance" or json\_payload.event\_type="yandex.cloud.audit.compute.DeleteInstance" or json\_payload.event\_type="yandex.cloud.audit.compute.StartInstance" or json\_payload.event\_type="yandex.cloud.audit.compute.StopInstance" or json\_payload.event\_type="yandex.cloud.audit.compute.RestartInstance") | event.dataset: yandexcloud.audittrail and event.action : yandex.cloud.audit.compute.\*Instance and cloud.instance.name: testdasdas |  |
| 3 | What actions did a particular user perform over a period of time  (requires values) | json\_payload.authentication.subject\_name="mirtov8@yandex-team.ru" and json\_payload.event\_time<"2022-03-01" and json\_payload.event\_time<"2022-04-01" | event.dataset: yandexcloud.audittrail and user.name : mirtov8@yandex-team.ru and event\_time < 2022-07-15 |  |
| 4 | Search for events by objects of a specific folder (requires values) | json\_payload.resource\_metadata.path[1].resource\_type="resource-manager.folder" and json\_payload.resource\_metadata.path[1].resource\_name="<имя каталога>") or (json\_payload.resource\_metadata.path[2].resource\_type="resource-manager.folder" and json\_payload.resource\_metadata.path[2].resource\_name="<имя каталога>" | event.dataset:yandexcloud.audittrail and cloud.folder.name:"mirtov-scale" |  |
| Use cases | | | | |
| IAM | | | | |
| 1 | Triggered when creating service account credentials | json\_payload.event\_type="yandex.cloud.audit.iam.CreateAccessKey" or json\_payload.event\_type="yandex.cloud.audit.iam.CreateKey" or json\_payload.event\_type="yandex.cloud.audit.iam.CreateApiKey" | event.dataset: yandexcloud.audittrail and event.action: (yandex.cloud.audit.iam.CreateAccessKey or yandex.cloud.audit.iam.CreateKey or andex.cloud.audit.iam.CreateApiKey) |  |
| 2 | Trigger on any action under a privileged account with the role "resource-manager.clouds.owner" and "organization-manager.admin"  ” (can be a list)  (requires values)  (requires values) | json\_payload.authentication.subject\_name="mirtov8@yandex-team.ru" or json\_payload.authentication.subject\_name="kirill@yandex-team.ru" | event.dataset: yandexcloud.audittrail and user.name : mirtov8@yandex-team.ru kirill8@yandex-team.ru |  |
| 3 | Abnormal number of failed authorization attempts  (requires values) | --- | event.dataset: yandexcloud.audittrail and error.message: Permission denied |  |
| 4 | Assignment of admin rights (for resources: folder, cloud) | json\_payload.details.access\_binding\_deltas.access\_binding.role\_i="admin" | event.dataset: yandexcloud.audittrail and details.access\_binding\_deltas.access\_binding.role\_id: admin |  |
| 5 | Assigning the vpc.public.admin role | json\_payload.details.access\_binding\_deltas.access\_binding.role\_id="vpc.publicAdmin" | event.dataset: yandexcloud.audittrail and details.access\_binding\_deltas.access\_binding.role\_id: vpc.publicAdmin |  |
| 6 | Calling the API using YC or terraform under a suspicious user or ip | json\_payload.request\_metadata.user\_agent:"YC" or json\_payload.request\_metadata.user\_agent:"Terraform" | event.dataset: yandexcloud.audittrail and (user\_agent.original.keyword: \*YC/\* or user\_agent.original.keyword: \*Terraform\*) |  |
| 7 | coming soon  A new certificate has been added to the federation | --- | --- |  |
| 8 | coming soon  Changed federation settings | --- | --- |  |
| 9 | new Any action using a cloud service account from a range of IP addresses outside the cloud | not json\_payload.request\_metadata.remote\_address:"51.250"…. | event.dataset: yandexcloud.audittrail and user.type: SERVICE\_ACCOUNT and not source.ip: ("51.250.0.0/17" or "31.44.8.0/21" or "62.84.112.0/20" or "84.201.128.0/18" or "84.252.128.0/20" or "130.193.32.0/19" or "178.154.192.0/18" or "178.170.222.0/24" or "185.206.164.0/22" or "193.32.216.0/22" or "217.28.224.0/20") and source.ip: \* |  |
| Compute | | | | |
| 10 | Triggering on an event with the creation of a VM with a white IP address | json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" and json\_payload.details.network\_interfaces.primary\_v4\_address.one\_to\_one\_nat.address exists | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.compute.CreateInstance and details.network\_interfaces.primary\_v4\_address.one\_to\_one\_nat.address: \* |  |
| 11 | Triggered to create "two-legged" virtual machines | json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" and json\_payload.details.network\_interfaces[1].index="1" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.compute.CreateInstance and details.network\_interfaces.index: 1 |  |
| 12 | Uploading an image to the cloud from a non-fixed S3 Bucket  (requires values) | json\_payload.event\_type="yandex.cloud.audit.compute.CreateImage" and not json\_payload.details.source\_uri:"https://storage.yandexcloud.net/action-log-123" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.compute.CreateImage and not cloud.image.source\_uri: "https://storage.yandexcloud.net/action-log-123" |  |
| 13 | Create VM with image\_id from Marketplace | not json\_payload.details.product\_ids[0]=null | event.dataset: yandexcloud.audittrail and details.product\_ids: \* |  |
| 14 | Adding a public IP address to an existing virtual machine | json\_payload.event\_type="yandex.cloud.audit.compute.AddInstanceOneToOneNat" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.compute.AddInstanceOneToOneNat |  |
| 15 | VM creation/modification events - enabling the serial port | json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" and json\_payload.details.metadata\_serial\_port\_enable="1" | event.dataset: yandexcloud.audittrail and event.outcome : success and event.action: yandex.cloud.audit.compute.CreateInstance and details.metadata\_serial\_port\_enable: 1 |  |
| 16 | new  Modifying VM - Adding Access to Serial Console | json\_payload.event\_type="yandex.cloud.audit.compute.UpdateInstance" or json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" and json\_payload.details.metadata\_serial\_port\_enable="1" | event.dataset: yandexcloud.audittrail and event.outcome : success and event.action: (yandex.cloud.audit.compute.CreateInstance or yandex.cloud.audit.compute.UpdateInstance) and details.metadata\_serial\_port\_enable: 1 |  |
| 17 | new  VM custom metadata value suspected to contain sensitive data | (json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" or json\_payload.event\_type="yandex.cloud.audit.compute.UpdateInstance") and json\_payload.details.metadata\_keys[0]: secret… | event.dataset: yandexcloud.audittrail and event.action: (yandex.cloud.audit.compute.UpdateInstance or yandex.cloud.audit.compute.CreateInstance) and details.metadata\_keys: secret key password pass token oauth aws\_access\_key\_id and event.outcome : success |  |
|  | Creating a VM without SG | json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" and not json\_payload.details.network\_interfaces.security\_group\_ids EXISTS | event.dataset: yandexcloud.audittrail and event.outcome : success and event.action: yandex.cloud.audit.compute.CreateInstance and not details.network\_interfaces.security\_group\_ids: \* |  |
| VPC | | | | |
| 18 | Creating too wide (insecure) ACL Security Group for ipv4, tcp | json\_payload.event\_type="yandex.cloud.audit.network.CreateSecurityGroup" or json\_payload.event\_type="yandex.cloud.audit.network.UpdateSecurityGroup" and json\_payload.details.rules[0].direction="INGRESS" and json\_payload.details.rules[0].cidr\_blocks.v4\_cidr\_blocks[0]="0.0.0.0/0" | event.dataset: yandexcloud.audittrail and (event.action: yandex.cloud.audit.network.CreateSecurityGroup or yandex.cloud.audit.network.UpdateSecurityGroup) and details.rules.direction: INGRESS and details.rules.cidr\_blocks.v4\_cidr\_blocks: \*0.0.0.0\* |  |
| 19 | Creating a public address without a DDoS protection checkbox | json\_payload.event\_type="yandex.cloud.audit.compute.CreateInstance" and not json\_payload.details.external\_ipv4\_address.requirements.ddos\_protection\_provider exists | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.network.CreateAddress and not details.external\_ipv4\_address.requirements.ddos\_protection\_provider: qrator |  |
| 20 | new  Creating / applying a security group by an account not from the list of allowed  (requires values) | (json\_payload.event\_type="yandex.cloud.audit.network.CreateSecurityGroup" or json\_payload.event\_type="yandex.cloud.audit.network.UpdateSecurityGroup") and not json\_payload.authentication.subject\_name="mirtov8@yandex-team.ru" | event.dataset: yandexcloud.audittrail and (event.action: yandex.cloud.audit.network.CreateSecurityGroup or yandex.cloud.audit.network.UpdateSecurityGroup) and not user.name: mirtov8@yandex-team.ru kirill@yandex-team.ru |  |
| 21 | Any action with Security Group objects | json\_payload.event\_type="yandex.cloud.audit.network.CreateSecurityGroup" or json\_payload.event\_type="yandex.cloud.audit.network.UpdateSecurityGroup" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.network.\*SecurityGroup |  |
| ObjectStorage(S3) | | | | |
| 22 | Подозрительные дейсвия с хранилищем логов AuditTrails (S3 Bucket) | json\_payload.event\_type="yandex.cloud.audit.storage.BucketAclUpdate" or json\_payload.event\_type="yandex.cloud.audit.storage.BucketPolicyUpdate" | event.dataset: yandexcloud.audittrail and event.action: (yandex.cloud.audit.storage.BucketAclUpdate or yandex.cloud.audit.storage.BucketPolicyUpdate) |  |
| 23 | new  Suspicious activities with the AuditTrails log storage (S3 Bucket) | json\_payload.event\_type="yandex.cloud.audit.storage.BucketUpdate" and (json\_payload.details.objects\_access: "true" or json\_payload.details.settings\_read\_access: "true" or json\_payload.details.list\_access: "true") | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.storage.BucketUpdate and (details.objects\_access: true or details.settings\_read\_access: true or details.list\_access: true) |  |
| 24 | new  Object storage bucket (S3) became public when created/modified via ACL | json\_payload.event\_type="yandex.cloud.audit.storage.BucketAclUpdate" and json\_payload.details.acl.grants.grant\_type: "ALL\_USERS" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.storage.BucketAclUpdate and details.acl.grants.grant\_type: "ALL\_USERS" |  |
| Lockbox/KMS | | | | |
| 25 | Triggered by changing access rights to KMS symmetric encryption keys | json\_payload.event\_type="yandex.cloud.audit.kms.UpdateSymmetricKeyAccessBindings" or json\_payload.event\_type="yandex.cloud.audit.kms.CreateSymmetricKeyAccessBindings" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit. kms. \*SymmetricKeyAccessBindings |  |
| 26 | Removing a KMS key | json\_payload.event\_type="yandex.cloud.audit.kms.DeleteSymmetricKey" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.kms.DeleteSymmetricKey |  |
| 27 | Assigning/Updating LockBox Secret Rights | json\_payload.event\_type="yandex.cloud.audit.lockbox.UpdateSecretAccessBindings" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.lockbox.UpdateSecretAccessBindings |  |
| 28 | new  Assigning a person with access to a lockbox  service account secrets on the VM  (requires values) | json\_payload.event\_type="yandex.cloud.audit.compute.UpdateInstance" and json\_payload.details.service\_account\_id: "ajeg2ar8m8o25u63dj9f" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.compute.UpdateInstance and details.service\_account\_id: ajeg2ar8m8o25u63dj9f |  |
| 29 | new  Reading a secret from Lockbox from an IP address different from the cloud address range  (requires values) | json\_payload.event\_type="yandex.cloud.audit.lockbox.GetPayload"  and not json\_payload.request\_metadata.remote\_address:"51.250"…. | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.lockbox.GetPayload and not source.ip: ("51.250.0.0/17" or "31.44.8.0/21" or "62.84.112.0/20" or "84.201.128.0/18" or "84.252.128.0/20" or "130.193.32.0/19" or "178.154.192.0/18" or "178.170.222.0/24" or "185.206.164.0/22" or "193.32.216.0/22" or "217.28.224.0/20") |  |
| 30 | new  Reading a secret from Lockbox using an account that is different from the target  (requires values) | json\_payload.event\_type="yandex.cloud.audit.lockbox.GetPayload" and not json\_payload.authentication.subject\_id: "ajesnkfkc77lbh50isvg" and json\_payload.details.secret\_id="e6q7q5msguqg22ji78e0" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.lockbox.GetPayload and not user.id: ajeg2ar8m8o25u63dj9f and details.secret\_name: secret1 |  |
| MDB | | | | |
| 31 | new Creating an MDB cluster by a cloud user not from the list of administrators  (requires values) | json\_payload.event\_type: "yandex.cloud.audit.mdb." and not json\_payload.authentication.subject\_name: "test" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.mdb.\*.CreateCluster and not user.name : mirtov8@yandex-team.ru kirill@yandex-team.ru |  |
| 32 | new  Creating/Changing an MDB User | json\_payload.event\_type: "CreateUser" or json\_payload.event\_type: "UpdateUser" | event.dataset: yandexcloud.audittrail and event.action: (yandex.cloud.audit.mdb.\*.UpdateUser or yandex.cloud.audit.mdb.\*.CreateUser) |  |
| 33 | new  Deleting an MDB Cluster | json\_payload.event\_type: "DeleteCluster" | event.dataset: yandexcloud.audittrail and event.action: yandex.cloud.audit.mdb.\*.DeleteCluster |  |
| 34 | new  Administrative actions with MDB from ip addresses that are different from the trusted range  (requires values) | (json\_payload.event\_type: "DeleteCluster" or json\_payload.event\_type: "CreateCluster") and not json\_payload.request\_metadata.remote\_address: "51.250" | event.dataset: yandexcloud.audittrail and event.action: (yandex.cloud.audit.mdb.\*.UpdateUser or yandex.cloud.audit.mdb.\*.CreateUser or yandex.cloud.audit.mdb.\*.CreateCluster or yandex.cloud.audit.mdb.\*.UpdateCluster ) and source.ip : ("2a00:1fa0:474:9876:4cac:6c43:12aa:2bd2" or "2a00:1fa0:474:9876:4cac:6c43:12aa:2bd1" ) |  |
| 35 | coming soon  Enabling a dangerous setting when creating a cluster | -доступ из datalens  -публичный доступ  -доступ из консоли управления  -доступ из serverless | --- |  |
| 36 | coming soon  Enabling a dangerous setting when changing a cluster | -доступ из datalens  -публичный доступ  -доступ из консоли управления  -доступ из serverless | --- |  |
| 37 | coming soon  Not enabled / unchecked "Protection from deletion" when creating/changing | -- | --- |  |
| 38 | coming soon  Changing settings affecting the collection of audit logs from MDB when creating / changing | -настройки log\_statements and log\_connections | --- |  |
| 39 | coming soon  Issuing privileged GRANT mdb\_admin to a user | --- | --- |  |
| 40 | coming soon  Creating/Modifying a Cluster without a Security Group Installed | --- | --- |  |
| The following Use cases are not part of Audit Trails, but are native k8s audit logs, and currently they cannot be analyzed in CloudLogging | | | | |
| Kubernetes (for k8s events, you need to set up a solution) | | | | |
| General | | | | |
| 1 | Access denied events - unauthorized | ---­ | event.dataset : yandexcloud.k8s\_audit\_logs and responseStatus.reason : Forbidden and not user.name : (system\*node\* or \*gatekeeper\* or \*kyverno\* or \*proxy\* or \*scheduler\* or \*anonymous\* or \*csi\* or \*controller\*) |  |
| 2 | Assigning a cluster-admin or admin role (clusterrolebinding or rolebinding) | --- | event.dataset : yandexcloud.k8s\_audit\_logs and requestObject.roleRef.name.keyword:(cluster-admin or admin) and objectRef.resource.keyword: (clusterrolebindings or rolebindings) and verb : create and not responseObject.reason : AlreadyExists |  |
| 3 | Successful connection to the cluster from an external IP address | --- | event.dataset : yandexcloud.k8s\_audit\_logs and source.ip : \* and not responseStatus.status : Failure |  |
| 4 | NetworkPolicies: create, delete, change | --- | event.dataset : yandexcloud.k8s\_audit\_logs and requestObject.kind.keyword: (NetworkPolicy or CiliumNetworkPolicy or DeleteOptions) and verb : (create or update or delete) and objectRef.resource : networkpolicies |  |
| 5 | Exec inside the container (shell inside the container) | --- | event.dataset : yandexcloud.k8s\_audit\_logs and objectRef.subresource.keyword: exec |  |
| 6 | Creating a pod with image NOT from Yandex container registry (not relevant for Clients using their own cr) | --- | event.dataset : yandexcloud.k8s\_audit\_logs and not requestObject.status.containerStatuses.image.keyword: \*cr.yandex/\* and requestObject.status.containerStatuses.containerID : \*docker\* and verb : patch and not requestObject.status.containerStatuses.image.keyword: (\*falco\* or \*openpolicyagent\* or \*kyverno\* or \*k8s.gcr.io\*) |  |
| 7 | Create pod in kube-system namespace | --- | event.dataset : yandexcloud.k8s\_audit\_logs and objectRef.namespace.keyword: kube-system and verb : create and objectRef.resource.keyword: pods and objectRef.name : \* and not objectRef.name : (\*calico\* or \*dns\* or \*npd\* or \*proxy\* or \*metrics\* or \*csi\* or \*masq\*) |  |
| 8 | Calling k8s-api under a service account from an external ip address | --- | event.dataset : yandexcloud.k8s\_audit\_logs and user.name : system\\\:serviceaccount\\\:\* not source.ip: ("10.0.0.0/8  " or " 172.16.0.0/12" or " 192.168.0.0/16" |  |
| Falco | | | | |
| 9 | Any Alert from Falco | --- | event.dataset : yandexcloud.k8s\_falco and not objectRef.namespace: falco |  |
| 10 | Falco removed | --- | event.dataset : yandexcloud.k8s\_audit\_logs and verb : delete and objectRef.namespace.keyword: falco and objectRef.resource.keyword : daemonsets |  |
| OPA Gatekeeper | | | | |
| 11 | OPA Gatekeeper triggered - denied events (only in enforce mode) | --- | event.dataset : yandexcloud.k8s\_audit\_logs and responseObject.status.keyword: Failure and responseObject.message :" admission webhook \\\"validation.gatekeeper.sh\\\" denied the request" and not objectRef.namespace : falco and not user.name : system\\\:serviceaccount\\\:kube-system\\\:daemon-set-controller |  |
| 12 | Removing a gatekeeper from a k8s cluster | --- | event.dataset : yandexcloud.k8s\_audit\_logs and objectRef.name.keyword: gatekeeper-validating-webhook-configuration and verb : delete |  |
| 13 | Modifying/deleting a Constraint object | --- | event.dataset : yandexcloud.k8s\_audit\_logs and objectRef.apiGroup.keyword: constraints.gatekeeper.sh and (verb : delete or update) and not user.name : "system:serviceaccount:gatekeeper-system:gatekeeper-admin" |  |
| Kyverno | | | | |
| 14 | Kyverno triggered - denied events (only in enforce mode) | --- | event.dataset : yandexcloud.k8s\_audit\_logs and responseObject.status.keyword: Failure and responseObject.message :" admission webhook \\\"validate.kyverno.svc\\\" denied the request" and not objectRef.namespace : falco and not user.name : system\\\:serviceaccount\\\:kube-system\\\:daemon-set-controller |  |
| 15 | Removing Kyverno from the k8s cluster | --- | event.dataset : yandexcloud.k8s\_audit\_logs and objectRef.name.keyword: kyverno-resource-validating-webhook-cfg and verb : delete |  |
| 16 | Changing/deleting a Kyverno Policy object | --- | event.dataset : yandexcloud.k8s\_audit\_logs and objectRef.apiGroup.keyword: kyverno.io and (verb : delete or update) and objectRef.resource.keyword: \*policies |  |
| Kyverno-report | | | | |
| 17 | Kyvenro triggered: fail status of policy result (Yandexcloud:k8s:kyverno-reporter-detect) | --- | event.dataset : yandexcloud.k8s\_kyverno and Status : fail |  |
| External Secrets | | | | |
| 18 | Changing / creating an external secrets object with an account other than ci / cd (this object goes to the lockbox and copies the secret from there) |  | event.dataset : yandexcloud.k8s\_audit\_logs and not user.name: "ajesnkfkc77lbh50isvg" and not user.name: "system:serviceaccount:external-secrets:external-secrets" and objectRef.name: "external-secret" and verb: (patch or create) |  |
| 19 | Read secrets under user account |  | event.dataset : yandexcloud.k8s\_audit\_logs and objectRef.resource: "secrets" and verb: "get" and not user.name: ("system:serviceaccount:external-secrets:external-secrets" or "system:serviceaccount:kube-system:hubble-generate-certs" or "system:serviceaccount:kyverno:kyverno") |  |
|  |  |  |  |  |