



NetWitness Platform API User Guide

for Version 11.3



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January 2019

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Overview

The NetWitness Platform API can be accessed using the same host and port as the NetWitness user interface.

Current Version

By default, all requests to the REST API will automatically use the latest version of the API available. To provide API stability, clients can specify the API version to use by adding the **NetWitness-Version** HTTP header:

```
NetWitness-Version: 1.0
```

Schema

All data is sent and received as JSON. Any resources containing fields without values will have those fields included with **null** as the value instead of being omitted.

Any fields containing timestamps or dates will be in **ISO 8601** format:

```
YYYY-MM-DDTHH:MM:SS.SSSZ
```

HTTP Usage

The RSA NetWitness API tries to adhere as closely as possible to standard HTTP and REST conventions in its use of HTTP verbs and status codes.

HTTP Verbs

Verb	Usage
GET	Used to retrieve a resource.
POST	Used to create a new resource.
PATCH	Used to update an existing resource, including partial updates. Only fields that are modified should be included in the request.
PUT	Used to replace an existing resource.
DELETE	Used to delete an existing resource.

HTTP Status Codes

Status code	Usage
200 OK	The request completed successfully.

201 Created	A new resource has been created successfully. The resource's URI is available from the response's Location header.
204 No Content	An update to an existing resource has been applied successfully.
400 Bad Request	The request was malformed. The response body will include an error providing further information. See Error Response .
401 Unauthorized	Similar to 403 Forbidden , but specifically for use when authentication is required and has failed or has not yet been provided. See Authentication and Authorization .
403 Forbidden	The request was valid, but the server is refusing the action. The user might not have the necessary permissions for a resource.
404 Not Found	The requested resource does not exist.
500 Internal Server Error	An unexpected error has occurred. The response body will include a message providing further information.

Case Sensitive

All URLs, request parameters and JSON fields are case sensitive.

Error Response

A common JSON structure is always returned for errors:

Path	Type	Description
status	Number	The HTTP status code returned.
timestamp	String	The timestamp of the request.
errors[]	Array	An array of errors for the given request.
errors[].message	String	A user-friendly error message explaining what went wrong.
errors[].field	String	The field or parameter containing the error.

```
{
  "status" : 400,
  "timestamp" : "2019-01-23T09:57:59.789Z",
  "errors" : [ {
    "message" : "Value must be less than or equal to \"10\"",
    "field" : "start"
  }, {
    "message" : "Invalid range"
  } ]
}
```

Pagination

A common JSON structure is always used for paginated results:

Path	Type	Description
items	Array	An array containing the requested resources.
pageNumber	Number	The requested page number.
pageSize	Number	The requested number of items to return in a single page.
totalPages	Number	The total number of pages available.
totalItems	Number	The total number of items available.
hasNext	Boolean	Indicates if there is a page containing results after this page.
hasPrevious	Boolean	Indicates if there is a page containing results before this page.

```
{
  "items" : [ ],
  "pageNumber" : 0,
  "pageSize" : 10,
  "totalPages" : 3,
  "totalItems" : 25,
  "hasNext" : true,
  "hasPrevious" : false
}
```

Authentication and Authorization

All requests must include the **NetWitness-Token** HTTP header containing a valid JSON Web Token (JWT):

```
NetWitness-Token:
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJleHAiOjE1MTEyNDczODYyNjMsImZlcyI6InNlY3VyaXR5L
XNlcnZlciozODA1NTA0OS0xZWMyLTQ0MDAtOTUwYS0zZTVkMmJiYTljMjIiLCJpYXQiOjE1MTEyMTEzODYyNjM
sImF1dGhvcml0aWVzIjpbIkFkbWluaXN0cmF0b3JzIl0sInVzZXJfbmFtZSI6ImFkbWluIn0.StBjg9ruIX4Fr
yfCX8qvrSBGZHF8DN3qHZM0Ei9-
thFndm1q_DLP_cnh8Fpm43fdKcs1ErcVRTqhaYvVULYmsF9ShUaSThpLts6zbJVEK1q3ldUGWWCY9bfVGRH3n5
KmWzITPi7xZ-
Rf_Kp2Sj8ecVAip3qDwha7TxYrReXefCnUj0UxgaaXjeZIFjwxFmK6NPZ7TAK90cvcVhozaR8V92g1kUVP8_54
x7iZ2jL4JvDPaScWBjBTvVEffHNbX9_iLNoRmKqvDELSla6E_trkSREogCt6pZh709Qh70uoC3BsKwNQKbHNEO
U1tRPFaUFfRH7bCdp8v3Aeh3PTaKEuQA
```

The JSON Web Token is defined in [RFC-7519](#). Tokens can be obtained using the methods outlined below.

In the remainder of this document, the token will be truncated to just **eyJ...AT** for brevity.

Obtaining a Token

A JSON Web Token can be obtained using the methods below.

Using a Username and Password

Users can retrieve an access token using their username and password credentials. Since the API gateway is secured using TLS, all credentials will be encrypted in transit.

```
POST /rest/api/auth/userpass
```

Request Parameters

Parameter	Description
username	The username of the account to authenticate.
password	The password of the account.

Response Fields

Path	Type	Description
id	String	The account identifier.
roles	Array	The roles assigned to the user.

Path	Type	Description
<code>accessToken</code>	String	A digitally signed access token that is acceptable as proof of authentication at any Launch service that trusts the public key of this service. The string holds a JSON web-token. See RFC-7519 .
<code>refreshToken</code>	String	A digitally signed refresh token that can be used to refresh an expired access token. Refresh tokens have longer expiry periods and can be used by services to re-authenticate users without (storing and) presenting credentials.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/auth/userpass' -i -X POST \
  -H 'Accept: application/json; charset=UTF-8' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=ISO-8859-1' \
  -d 'username=ian&password=changeMe'
```

Sample Response

```
HTTP/1.1 200 OK
Date: Wed, 23 Jan 2019 09:56:24 GMT
Content-Length: 106
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
```

```
{
  "id" : "ian",
  "roles" : [ "Analyst" ],
  "accessToken" : "eyJ...AT",
  "refreshToken" : "eyJ...AT"
}
```

Using a Refresh Token

Users can also retrieve an access token using a refresh token.

```
POST /rest/api/auth/token
```

Request Parameters

Parameter	Description
<code>token</code>	A refresh token.

Response Fields

Path	Type	Description
<code>id</code>	String	The account identifier.
<code>roles</code>	Array	The roles assigned to the user.
<code>accessToken</code>	String	A digitally signed access token that is acceptable as proof of authentication at any Launch service that trusts the public key of this service. The string holds a JSON web-token. See RFC-7519 .
<code>refreshToken</code>	String	A digitally signed refresh token that can be used to refresh an expired access token. Refresh tokens have longer expiry periods and can be used by services to re-authenticate users without (storing and) presenting credentials.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/auth/token' -i -X POST \
  -H 'Accept: application/json; charset=UTF-8' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=ISO-8859-1' \
  -d
'token=eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJleHAiOjE1NTA4MjkzODU2NDUsImZcyI6InNlY3
VyaXR5LXNlcnZlc00ZGZkYjJkNy03Zjc5LTQwZjItOTBkNy0xN2VhMzUyZGJkYTMiLCJpYXQiOjE1NDgyMzcz
ODU2NDUsInJlZnJlc2giOnRydWUsInVzZXJfbmFtZSI6ImIhbiJ9.uAMwQzDZfev8IAIWNWDbnSY0Q050tZxp0
baXxVIX7XHn_08kxF2f_1cXD0T3iMSRJYBez9Jq0-
372a13JU1viGRME_Dxq5L2COEkQY2Zmt0gLBi0vipd48u1c4PjrqHSqfyHH8lr1vS0x52Gq-
264S28VzLaPg0DJKSkztAusdwX9b6jP14DGZYl0-Bt89bzb0D2-
3ZsQKLzSH7XDaSGYIf8uG12qkONQH0drZ8AzUN4Tkf5s26VKkpYztxCuwN5awK9JGNxyHx2dpHx69aMqrz91lr
ZQM205gg3bpjrkaWFWSpztfIL82LuQWKOPXJM0nKj7aQIw9zdsBROAmrGA'
```

Sample Response

```
HTTP/1.1 200 OK
Content-Length: 106
Content-Type: application/json; charset=UTF-8
Date: Wed, 23 Jan 2019 09:56:25 GMT
Transfer-Encoding: chunked
```

```
{
  "id" : "ian",
  "roles" : [ "Analyst" ],
  "accessToken" : "eyJ...AT",
  "refreshToken" : "eyJ...AT"
}
```

Authorization

In order to make requests through the NetWitness Platform API, users must belong to roles that have the `integration-server.api.access` permission, as well as any underlying permissions required to fulfill the request.

Incidents

An Incident is a logically grouped set of alerts created automatically by the Incident Aggregation Engine and grouped by a specific criteria. An Incident, available in the Respond Interface, allows an Analyst to triage, investigate, and remediate these groups of alerts. Incidents can be moved between users, notated, and explored via the nodal graph. Incidents allow users to ensure they understand the full scope of an attack or event in their NW system and then take action.

Attributes

The incident resource is comprised of the following attributes:

Path	Type	Description
<code>id</code>	String	The unique identifier of the incident.
<code>title</code>	String	The title of the incident.
<code>summary</code>	String	The summary of the incident.
<code>priority</code>	String	The incident priority. See the valid values .
<code>riskScore</code>	Number	The incident risk score is calculated based on the associated alert's risk score. Risk score ranges from 0 (no risk) to 100 (highest risk).
<code>status</code>	String	The current status. See the valid values .
<code>alertCount</code>	Number	The number of alerts associated with an incident.
<code>averageAlertRiskScore</code>	Number	The average risk score of the alerts associated with the incident. Risk score ranges from 0 (no risk) to 100 (highest risk).
<code>sealed</code>	Boolean	Indicates if additional alerts can be associated with an incident. A <code>sealed</code> incident cannot be associated with additional alerts.
<code>totalRemediationTaskCount</code>	Number	The number of total remediation tasks for an incident.
<code>openRemediationTaskCount</code>	Number	The number of open remediation tasks for an incident.
<code>created</code>	String	The timestamp of when the incident is created.
<code>lastUpdated</code>	String	The timestamp of when the incident was last updated.
<code>lastUpdatedBy</code>	String	The NetWitness user identifier of the user who last updated the incident.
<code>assignee</code>	String	The NetWitness user identifier of the user currently working on the incident.
<code>sources</code>	Array	Unique set of sources for all of the alerts in an incident.

Path	Type	Description
<code>ruleId</code>	String	The unique identifier of the rule that created the incident.
<code>firstAlertTime</code>	String	The timestamp of the earliest occurring Alert in this incident.
<code>categories</code>	Array	The list of categories this incident is categorized under.
<code>categories[].id</code>	String	The unique category identifier.
<code>categories[].parent</code>	String	The parent name of the category.
<code>categories[].name</code>	String	The friendly name of the category.
<code>journalEntries</code>	Array	Set of notes about the incident investigation, also known as the JournalEntry.
<code>journalEntries[].id</code>	String	The unique journal entry identifier.
<code>journalEntries[].author</code>	String	The author of this entry.
<code>journalEntries[].notes</code>	String	Notes and observations about the incident.
<code>journalEntries[].created</code>	String	The timestamp of the journal entry created date.
<code>journalEntries[].lastUpdated</code>	String	The timestamp of the journal entry last updated date.
<code>journalEntries[].milestone</code>	String	Incident milestone classifier. See the valid values .
<code>createdBy</code>	String	The NetWitness user id or name of the rule that created the incident.
<code>deletedAlertCount</code>	Number	The number of alerts that are deleted from the incident.
<code>eventCount</code>	Number	The number of events associated with incident.
<code>alertMeta</code>	String	An object containing unique set of meta values, by type, across all alerts associated with this incident.
<code>alertMeta.SourceIp</code>	Array	Unique source IP addresses.
<code>alertMeta.DestinationIp</code>	Array	Unique destination IP addresses.

Incident Priority

The `priority` field can contain these values:

Value	Description
Low	Low Priority
Medium	Medium Priority
High	High Priority
Critical	Critical

Incident Status

The **status** field can contain these values:

Value	Description
New	New incident.
Assigned	Incident is assigned to a user.
InProgress	Incident response is in progress.
RemediationRequested	Remediation tasks have been requested.
RemediationComplete	Remediation tasks are complete.
Closed	Incident is closed.
ClosedFalsePositive	Incident is closed as it was created due to false positive.

Milestone

Each journal entry can contain a **milestone** consisting of these values:

Value	Description
Reconnaissance	Intruder is in the initial phase of the attack where targets and vulnerabilities are identified.
Delivery	Intruder transmitted malware to the target.
Exploitation	Malware code triggers, which takes action on target network to exploit vulnerability.
Installation	Malware weapon installs access point usable by intruder.
CommandAndControl	Malware enables intruder to have persistent access to target network.
ActionOnObjective	Intruder takes action to achieve their goals, such as data exfiltration, data destruction, or encryption for ransom.
Containment	Incident is contained.
Eradication	Necessary actions taken to eliminate components of incident and restore the system status.
Closure	Incident is addressed.

Requests

Get a Single Incident

A single incident can be retrieved using an incident's unique identifier.

```
GET /rest/api/incidents/{id}
```

Path Parameters

Parameter	Description
<code>id</code>	The unique identifier of the incident.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/incidents/INC-100' -i -X GET \
-H 'Accept: application/json; charset=UTF-8' \
-H 'NetWitness-Token: eyJ...AT'
```

Sample Response

```
HTTP/1.1 200 OK
Content-Length: 1329
Content-Type: application/json; charset=UTF-8
Date: Wed, 23 Jan 2019 09:59:46 GMT
Transfer-Encoding: chunked
```

```

{
  "id" : "INC-100",
  "title" : "Suspected C&C with suspicious-domain.com",
  "summary" : "Security Analytics detected communications with suspicious-domain.com
that may be command and control malware.",
  "priority" : "Critical",
  "riskScore" : 100,
  "status" : "InProgress",
  "alertCount" : 1,
  "averageAlertRiskScore" : 100,
  "sealed" : true,
  "totalRemediationTaskCount" : 4,
  "openRemediationTaskCount" : 5,
  "created" : "2018-01-01T04:49:27.870Z",
  "lastUpdated" : "2019-01-23T09:59:47.256Z",
  "lastUpdatedBy" : "norm",
  "assignee" : "ian",
  "sources" : [ "Malware Analysis" ],
  "ruleId" : "55e49a79e4b01a1d2be502bc",
  "firstAlertTime" : "2017-08-04T16:49:22Z",
  "categories" : [ {
    "id" : "55e49a79e4b01a1d2be5022e",
    "parent" : "Malware",
    "name" : "Password dumper"
  }, {
    "id" : "55e49a79e4b01a1d2be50228",
    "parent" : "Hacking",
    "name" : "Path traversal"
  } ],
  "journalEntries" : [ {
    "id" : "20",
    "author" : "admin",
    "notes" : "Updated status",
    "created" : "2017-11-15T20:20:54.785Z",
    "lastUpdated" : "2017-11-15T20:20:54.785Z",
    "milestone" : "Containment"
  } ],
  "createdBy" : "norm",
  "deletedAlertCount" : 100,
  "eventCount" : 0,
  "alertMeta" : {
    "SourceIp" : [ "10.11.12.345" ],
    "DestinationIp" : [ "11.11.11.111", "11.22.33.444" ]
  }
}

```

Get Incidents by Date Range

Incidents can be retrieved by the date and time they were created.

```
GET /rest/api/incidents
```

The requested date range can be unbounded, by only supplying either the **since** or **until** parameter, or bounded, by providing both parameters.

Request Parameters

Parameter	Description
pageNumber	The requested page number.
pageSize	The maximum number of items to return in a single page.
since	A timestamp in ISO 8601 format (e.g., 2018-01-01T14:00:00.000Z). Retrieve incidents created on and after this timestamp.
until	A timestamp in ISO 8601 format (e.g., 2018-01-01T14:00:00.000Z). Retrieve incidents created on and before this timestamp.

All results will be returned using the **paginated response payload** sorted by the **created** date, in descending order.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/incidents?since=2018-01-01T04%3A00%3A00.000Z&until=2018-01-01T05%3A00%3A00.000Z&pageSize=100&pageNumber=0' -i -X GET \
-H 'Accept: application/json; charset=UTF-8' \
-H 'NetWitness-Token: eyJ...AT'
```

Sample Response

```
HTTP/1.1 200 OK
Content-Length: 1560
Date: Wed, 23 Jan 2019 09:59:44 GMT
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
```

```
{
  "items" : [ {
    "id" : "INC-100",
    "title" : "Suspected C&C with suspicious-domain.com",
    "summary" : "Security Analytics detected communications with suspicious-domain.com that may be command and control malware.",
    "priority" : "Critical",
    "riskScore" : 100,
    "status" : "Assigned",
    "alertCount" : 1,
    "averageAlertRiskScore" : 100,
```



```

"sealed" : true,
"totalRemediationTaskCount" : 4,
"openRemediationTaskCount" : 5,
"created" : "2018-01-01T04:49:27.870Z",
"lastUpdated" : "2017-08-04T16:49:27.870Z",
"lastUpdatedBy" : "norm",
"assignee" : "tony",
"sources" : [ "Malware Analysis" ],
"ruleId" : "55e49a79e4b01a1d2be502bc",
"firstAlertTime" : "2017-08-04T16:49:22Z",
"categories" : [ {
  "id" : "55e49a79e4b01a1d2be5022e",
  "parent" : "Malware",
  "name" : "Password dumper"
}, {
  "id" : "55e49a79e4b01a1d2be50228",
  "parent" : "Hacking",
  "name" : "Path traversal"
} ],
"journalEntries" : [ {
  "id" : "20",
  "author" : "admin",
  "notes" : "Updated status",
  "created" : "2017-11-15T20:20:54.785Z",
  "lastUpdated" : "2017-11-15T20:20:54.785Z",
  "milestone" : "Containment"
} ],
"createdBy" : "norm",
"deletedAlertCount" : 100,
"eventCount" : 0,
"alertMeta" : {
  "SourceIp" : [ "10.11.12.345" ],
  "DestinationIp" : [ "11.11.11.111", "11.22.33.444" ]
}
} ],
"pageNumber" : 0,
"pageSize" : 100,
"totalPages" : 1,
"totalItems" : 1,
"hasNext" : false,
"hasPrevious" : false
}

```

Update an Incident

Currently an incident's **status** and **assignee** can be modified using the incidents endpoint.

```
PATCH /rest/api/incidents/{id}
```

The **assignee** field must include the unique identifier for a valid NetWitness user. The list of users can be found in the security section of the administration user interface.

Request Fields

Path	Type	Description
status	String	The current status. See the valid values .
assignee	String	The NetWitness user identifier of the user currently working on the incident.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/incidents/INC-100' -i -X PATCH \  
-H 'Accept: application/json; charset=UTF-8' \  
-H 'NetWitness-Token: eyJ...AT' \  
-H 'Content-Type: application/json; charset=UTF-8' \  
-d '{"status": "InProgress"}'
```

Sample Response

```
HTTP/1.1 200 OK  
Content-Length: 1330  
Content-Type: application/json; charset=UTF-8  
Date: Wed, 23 Jan 2019 09:59:46 GMT  
Transfer-Encoding: chunked
```

```

{
  "id" : "INC-100",
  "title" : "Suspected C&C with suspicious-domain.com",
  "summary" : "Security Analytics detected communications with suspicious-domain.com
that may be command and control malware.",
  "priority" : "Critical",
  "riskScore" : 100,
  "status" : "InProgress",
  "alertCount" : 1,
  "averageAlertRiskScore" : 100,
  "sealed" : true,
  "totalRemediationTaskCount" : 4,
  "openRemediationTaskCount" : 5,
  "created" : "2018-01-01T04:49:27.870Z",
  "lastUpdated" : "2019-01-23T09:59:46.057Z",
  "lastUpdatedBy" : "norm",
  "assignee" : "tony",
  "sources" : [ "Malware Analysis" ],
  "ruleId" : "55e49a79e4b01a1d2be502bc",
  "firstAlertTime" : "2017-08-04T16:49:22Z",
  "categories" : [ {
    "id" : "55e49a79e4b01a1d2be5022e",
    "parent" : "Malware",
    "name" : "Password dumper"
  }, {
    "id" : "55e49a79e4b01a1d2be50228",
    "parent" : "Hacking",
    "name" : "Path traversal"
  } ],
  "journalEntries" : [ {
    "id" : "20",
    "author" : "admin",
    "notes" : "Updated status",
    "created" : "2017-11-15T20:20:54.785Z",
    "lastUpdated" : "2017-11-15T20:20:54.785Z",
    "milestone" : "Containment"
  } ],
  "createdBy" : "norm",
  "deletedAlertCount" : 100,
  "eventCount" : 0,
  "alertMeta" : {
    "SourceIp" : [ "10.11.12.345" ],
    "DestinationIp" : [ "11.11.11.111", "11.22.33.444" ]
  }
}

```

Remove an Incident

A single incident can be removed using the incident's unique identifier.

```
DELETE /rest/api/incidents/{id}
```

Path Parameters

Parameter	Description
<code>id</code>	The unique identifier of the incident.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/incidents/INC-100' -i -X DELETE \  
-H 'Accept: application/json;charset=UTF-8' \  
-H 'NetWitness-Token: eyJ...AT'
```

Sample Response

```
HTTP/1.1 204 No Content  
Date: Wed, 23 Jan 2019 09:59:48 GMT
```

Add a Journal Entry

A journal entry, or note, can be added to an existing incident.

```
POST /rest/api/incidents/{id}/journal
```

Path Parameters

Parameter	Description
<code>id</code>	The unique identifier of the incident.

Request Fields

Path	Type	Description
<code>author</code>	<code>String</code>	The NetWitness user id of the user creating the journal entry.
<code>notes</code>	<code>String</code>	Notes and observations about the incident.
<code>milestone</code>	<code>String</code>	The incident milestone classifier.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/incidents/INC-100/journal' -i -X POST \
-H 'Accept: application/json; charset=UTF-8' \
-H 'NetWitness-Token: eyJ...AT' \
-H 'Content-Type: application/json; charset=UTF-8' \
-d '{"author":"duke","notes":"This incident is contained.", "milestone":"Containment"}'
```

Sample Response

```
HTTP/1.1 201 Created
Location: https://api.netwitness.local/rest/api/incidents/INC-100
Date: Wed, 23 Jan 2019 09:59:48 GMT
```

Get an Incident's Alerts

All the alerts that are associated with an incident can be retrieved using the incident's unique identifier.

```
GET /rest/api/incidents/{id}/alerts
```

Path Parameters

Parameter	Description
<code>id</code>	The unique identifier of the incident.

Request Parameters

Parameter	Description
<code>pageNumber</code>	The requested page number.
<code>pageSize</code>	The maximum number of items to return in a single page.

Response Fields

Path	Type	Description
<code>items</code>	Array	An array containing the requested resources.
<code>pageNumber</code>	Number	The requested page number.
<code>pageSize</code>	Number	The requested number of items to return in a single page.
<code>totalPages</code>	Number	The total number of pages available.
<code>totalItems</code>	Number	The total number of items available.

Path	Type	Description
hasNext	Boolean	Indicates if there is a page containing results after this page.
hasPrevious	Boolean	Indicates if there is a page containing results before this page.
items[].id	String	The unique alert identifier.
items[].title	String	The title or name of the rule that created the alert.
items[].detail	String	The details of the alert. This can be the module name or meta that the module included.
items[].created	String	The timestamp of the alert created date.
items[].source	String	The source of this alert. For example, "Event Stream Analysis", "Malware Analysis", etc.
items[].riskScore	Number	The risk score of this alert, usually in the range 0 - 100.
items[].type	String	The type of alert, "Network", "Log", etc.
items[].events	Array	The events that make up this alert.
items[].events[].source	Object	The source of the event.
items[].events[].source.device	Object	The device contains the endpoint network information.
items[].events[].source.device.ipAddress	String	The IP address.
items[].events[].source.device.port	Number	The port.
items[].events[].source.device.macAddress	String	The ethernet MAC address.
items[].events[].source.device.dnsHostname	String	The DNS resolved hostname.
items[].events[].source.device.dnsDomain	String	The top-level domain from the DNS resolved hostname.
items[].events[].source.user	Object	The user contains the endpoint user information.
items[].events[].source.user.username	String	The unique username.
items[].events[].source.user.emailAddress	String	An email address.
items[].events[].source.user.adUsername	String	An Active Directory (AD) username.
items[].events[].source.user.adDomain	String	An Active Directory (AD) domain.
items[].events[].destination	Object	The destination of the event.
items[].events[].destination.device	Object	The device contains the endpoint network information.
items[].events[].destination.device.ipAddress	String	The IP address.

Path	Type	Description
items[].events[].destination.device.port	Number	The port.
items[].events[].destination.device.macAddress	String	The ethernet MAC address.
items[].events[].destination.device.dnsHostname	String	The DNS resolved hostname.
items[].events[].destination.device.dnsDomain	String	The top-level domain from the DNS resolved hostname.
items[].events[].destination.user	Object	The user contains the endpoint user information.
items[].events[].destination.user.username	String	The unique username.
items[].events[].destination.user.emailAddress	String	An email address.
items[].events[].destination.user.adUsername	String	An Active Directory (AD) username.
items[].events[].destination.user.adDomain	String	An Active Directory (AD) domain.
items[].events[].domain	String	The top-level domain or Windows domain.
items[].events[].eventSource	String	The source of the event. This may be a fully-qualified hostname with a port, or simple name.
items[].events[].eventSourceId	String	The unique identifier of the event on the source. For Network and Log events, this is the Nextgen Session ID.

Sample Request

```
$ curl 'https://api.netwitness.local/rest/api/incidents/INC-100/alerts?pageSize=10&pageNumber=0' -i -X GET \
-H 'Accept: application/json; charset=UTF-8' \
-H 'NetWitness-Token: eyJ...AT'
```

Sample Response

```
HTTP/1.1 200 OK
Date: Wed, 23 Jan 2019 09:59:48 GMT
Content-Length: 1301
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
```

```
{
  "items" : [ {
    "id" : "5a6b81639491573f1e73676c",
    "title" : "LogOn Rule",
    "detail" : "Module_5a5cddb3e4b0ac40016df562_Alert",
```

```

"created" : "2018-01-26T19:28:35Z",
"source" : "Event Stream Analysis",
"riskScore" : 90,
"type" : "Network",
"events" : [ {
  "source" : {
    "device" : {
      "ipAddress" : "58.229.117.56",
      "port" : 57429,
      "macAddress" : "00:13:c3:3b:c7:00",
      "dnsHostname" : null,
      "dnsDomain" : null
    },
    "user" : {
      "username" : "wwwrun",
      "emailAddress" : null,
      "adUsername" : null,
      "adDomain" : null
    }
  },
  "destination" : {
    "device" : {
      "ipAddress" : "128.164.35.184",
      "port" : 21,
      "macAddress" : "00:17:df:6b:c8:00",
      "dnsHostname" : null,
      "dnsDomain" : null
    },
    "user" : {
      "username" : "wwwrun",
      "emailAddress" : null,
      "adUsername" : null,
      "adDomain" : null
    }
  },
  "domain" : null,
  "eventSource" : "10.4.61.48:56005",
  "eventSourceId" : "9318"
} ]
} ],
"pageNumber" : 0,
"pageSize" : 10,
"totalPages" : 1,
"totalItems" : 1,
"hasNext" : false,
"hasPrevious" : false
}

```