NetBrain Integration Deployment Guide

Single Pane of Glass – AKIPS Network Monitor Syslogs

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# Overview

## Use case

NetBrain has created an integration compatible with NetBrain Integrated Edition release 8.0 (and newer) that enables a NetBrain administrator to overlay AKIPS Syslog on user created maps.

With this integration, NetBrain can overlay the following information as device table attributes:

1. Syslog Error Code
2. Syslog Message
3. Management IP
4. Time Stamp

## NetBrain Map with AKIPS Syslog Data Overlay

Below is an example representation of the AKIPS Syslog overlay on devices

# Pre-requisites

## Application Version

Please confirm if your application is compatible with the integration.

|  |  |
| --- | --- |
| Application | Version |
| NetBrain Integrated Edition | **IEv8.0 (or newer)** |
| AKIPS Network Monitor | **Version 19.x (or newer)** |

## Network Connectivity

It is required that there’s **HTTP/HTTPS** connectivity between the **NetBrain Front Server** and the **AKIPS Network Monitor server.**

## User Account and Privileges

|  |  |  |
| --- | --- | --- |
| Application | User Account | Required Role Assignment(s) |
| NetBrain Integrated Edition | Required | **System Admin** |
| AKIPS Network Monitor | Required | **Guest (or higher)** |

# Deployment Instructions

## Deploy the NetBrain AKIPS API Adaptor

1. Download the NetBrain AKIPS API Adapter, *AKIPS API Adaptor.py*, from the NetBrain github and stage locally on the machine typically used to connect to the NetBrain User Interface.
2. Using a web browser, login to the NetBrain System Management UI using the *System Admin* credentials

*http://<NetBrain Web Server IP>/admin*

1. In the NetBrain System Management UI, Navigate to *Operations > API Adaptors*.
2. In the *API Adaptors* screen, click “Add”.
3. Complete the *Add Adaptor* dialog screen as follows:

|  |  |
| --- | --- |
| **Field / Setting** | **Value** |
| **Adapter Name** | *AKIPS API Adaptor* |
| **Description** | *NetBrain AKIPS API Adaptor* |
| **Script** | *<AKIPS API Adaptor.py>* |

1. Review the adaptor configuration, then click “Save”.
2. Log out of the Netbrain Integrated Edition System Management UI.

## Create AKIPS API Server Connection

**Note:** If the environment has been deployed with multiple Front Servers, repeat this section for each of the Front Servers.

1. Using a web browser, login to the NetBrain Desktop UI using the *System Admin* credentials

http://<NetBrain Web Server IP>

1. Navigate to the NetBrain *API Server Manager*

*Domain Management > Operations > API Server Manager*

1. In the API Server Manager screen, click “Add”.
2. Complete the Add API Server dialog screen as follows:

|  |  |
| --- | --- |
| **Field / Setting** | **Value** |
| **Server Name** | *AKIPS API Adaptor* |
| **Description** | *NetBrain AKIPS API Adaptor* |
| **API Source Type** | *<AKIPS API Adaptor.py>* |
| **Endpoint** | *AKIPS instance endpoint (ex “http://192.168.31.99”)* |
| **Username** | *AKIPS guest account’s username* |
| **Password** | *AKIPS password* |
| **Front Server/Front Server Group** | Select FS/FSG which would have reachability to AKIPS server |

1. Click “Test” to initiate a connectivity test between the NetBrain front server and the AKIPS instance configured. Pictured below is the result of a successful connectivity test followed by two typical failure scenarios: Incorrect credentials and connectivity between NetBrain and AKIPS.

|  |  |
| --- | --- |
| **Successful Connection** |  |
| **Error Scenario:**  The entered credentials are incorrect.  **Possible Resolution:**  Confirm credentials specified in the AKIPS API Adaptor configuration and retry. |  |
| **Error Scenario:**  AKIPS endpoint is unreachable.  **Possible Resolution:**  Confirm that the NetBrain Front Server(s) can reach the AKIPS platform using 3rd party tools (Ping, Traceroute, Wireshark) |  |

1. Once successful connection with the local AKIPS instance has been confirmed, click “OK” to finalize AKIPS server connection.
2. Repeat Steps 2-6 for each additional deployed Front Server.

## Import AKIPS Data View Template

1. Download the NetBrain AKIPS Dataview Template, *[AKIPS] Import Syslog.xdvt*, from the NetBrain github and stage locally on the machine used to connect to the NetBrain User Interface.
2. Using a web browser, login to the NetBrain Desktop UI with the *System Admin* credentials

*http://<NetBrain Web Server IP>*

1. Navigate to the NetBrain *Data View Template Manager*

*Start Menu (The Four Dashed Lines) > Dynamic Map > Data View Template Manager*

1. Right-Click “Shared Templates in Tenant”, then click “New Folder”.
2. Name the folder *AKIPS Single Pane of Glass*
3. Right-Click the “AKIPS Single Pane of Glass” folder, then click “Import Template”
4. In the *Import Data View Template* dialog, click “Add Data View Template …”
5. Select the *[AKIPS] Import Syslog.xdvt* file, then click “Open”.
6. Confirm that the *Import Data View Template* dialog screen reflects the following information:

**Name:** *[AKIPS] Import Syslog.xdvt*

**Size:** *12.32k*

**Status:** *Ready*

**Related Resources:** *1 Parser*

1. Click “Import” to initiate the import of the data view template to the NetBrain system.

**Note:** On successful completion, the status will transition from *Ready* to *Successful.* If any other status is reported, retry the operation, then contact NetBrain support.

1. Navigate to NetBrain *Parser Library*

*Start Menu (The Four Dashed Lines) > Automation > Parser Library*

1. In the Parser Library, search for “AKIPS“. Parser should be returned in the search results:

*[AKIPS] Syslogs*

1. Double-click *[AKIPS] Syslogs* to open the custom parser in the *Parser Editor*.
2. In the *Parser Editor*, update the *Parser Type* associated with the *[AKIPS] Syslogs* to the following:

**Parser Type:** *API, AKIPS API Plugin*

1. Click the Save icon in the upper-right corner of the screen, then close the browser tab.

## Creating AKIPS Enabled Device Groups

**Note:** If the environment has been deployed with multiple Front Servers, repeat this section for each of the Front Servers.

1. Navigate to the NetBrain *Device Group Manager.*

*Start Menu (The Four Dashed Lines) > Device Group*

1. In the *Device Group Manager*, right-click the “Public” folder, then click “New Device Group”.
2. In the *Device Group Properties* dialog, Name the device group as follows:

*[AKIPS] DG <Front Server Hostname>*

1. Under *Devices and Interfaces*, click “+Dynamic Search”, then “Dynamic Search Device”.
2. In the *Dynamic Search Device* dialog,

**Search Scope:** *All Devices (default)*

**Device Criteria:** *Front Server | Matches | <Front Server>*

where *<Front Server>* is the front server specified in step 3.

1. Click “Search” to populate the device list to front server mapping.
2. Click “OK” button to create a *Dynamic Search* association.
3. In the *Device Group Properties* dialog, click “OK” to complete Device Group creation.
4. In the *Device Group Manager*, right-click the *[AKIPS] <Front Server Hostname>* object, then click “Open Group Map”.
5. In the resulting NetBrain device group map, right-click any device, then click “Shared Device Settings”.
6. In the *Shared Device Settings…* dialog, click the select the API tab then populate the dropdown fields as follows:

*AKIPS API Adaptor | AKIPS API Server <Front Server> | <Select Front Server>*

1. Check “Apply above Settings to device group”, then select *[AKIPS] DG <Front Server Hostname>*
2. In the API tab content table, check *AKIPS API Adaptor*
3. Click “Submit”.
4. Repeat steps 1-14 for each additional deployed Front Server.

# Visualizing the AKIPS Data with NetBrain Data View Template

## On-Demand Data Overlay

1. From the NetBrain Desktop Management UI, open the desired map to overlay AKIPS data.
2. In *Dynamic Data View* tab, search for “[AKIPS] Import Syslog”.
3. In the *Preview – Data View Template* dialog, click “Apply”
4. On the NetBrain map, confirm that the *Cache/Live* data source switch is set to *Live.*
5. Confirm that the objects (devices and interfaces) are properly instrumented with the expected AKIPS data.

**Note:** Overlay of the AKIPS data may take seconds-to-minutes to complete refresh depending on the number of devices on the map.

## Schedule Data Import from AKIPS

1. In the *NetBrain Domain Management* page, navigate to *Schedule Task*.
2. Click on “Schedule Data View Template/Parser”, then click on “Add Task”
3. In the *Add Task* dialog, specify the frequency for which to import device and interface data from AKIPS.
4. Click on “Device Scope” tab, then click “Device Group” radio button. Add each device group created as part of the integration to limit device scope of the available devices.
5. Click on “Select Data View Template/Parser” tab, click on “Add” and search for *[AKIPS] Import Syslog*
6. Click “Submit” to create the scheduled task for AKIPS data import to NetBrain.

**Note:** The AKIPS data will not be available on the map until after the first time that the scheduled task has completed execution.

# Troubleshooting

If there are any problems encountered during deployment or integration of NetBrain with AKIPS, contact NetBrain Support at support@netbraintech.com.