

Please follow steps below to setup the NIPING utility (SAP system availability check). The utility will continuously send (with customizable interval) NIPING packets to predefined list of SAP system and wait for the response.

- ✗ Download Python runtime on the official Python download [page](#) or [Teams](#) folder and install it on the server.

This step is not needed if the utility is located on the Splunk server.

- ✗ Copy and decompress `bnw_niping_utility.zip` to the system folder.
- ✗ Amend the `\lookups\sap_instances.csv` file and define the list of SAP system to be monitored with following format (the header should remain in the file):

```
source, "INSTANCE_NAME"  
N71, "SAPN71D_N71_00"
```

- ✗ Setup the utility using `nipping.conf` file.

Populate **[General]** and **[Splunk\_HEC\_Indexer]** sections. Please find the sample below.

```
[General]  
log_level = debug  
enable_populate_instance_lookup = 0  
enable_send_data_to_hec = 1  
enable_send_data_to_file = 0  
instance_lookup_file = sap_instances.csv  
  
[Splunk_HEC_Indexer]  
splunk_host = 10.100.2.148  
token = 6DD8531A-279C-41DA-85A9-15BE4F2040C1  
enable_ssl = 0  
enable_ssl_cert_validation = 0  
port = 8088
```

- ✗ In case of Windows environment, execute the `\bin\niping_start.bat`, which will send NIPING packets and wait for the response. The monitor interval is 10 seconds by default. It can be overridden by calling the script with the additional parameter: interval in seconds.
- ✗ In case the utility is located on the Splunk server, the script should be executed via following command:

On Windows:

```
$SPLUNK_HOME\bin\splunk.exe cmd python bin\collect_niping_status.py  
Batch script \bin\niping_start.bat should be amended accordingly.
```

On Linux:

```
$SPLUNK_HOME/bin/splunk cmd python bin/collect_niping_status.py
```

For additional information, please refer to the **README.md** file.

All files are available on PowerConnect Teams [folder](#).

The check result is sent to Splunk with `EVENT_TYPE=NIPING_AVAILABILITY`.

Please find the sample alert search below:

```
index=id7_hec EVENT_TYPE=NIPING_AVAILABILITY
| dedup INSTANCE_HOST INSTANCE_NAME INSTANCE_SID sortby -_time
| where STATUS="false"
| table _time INSTANCE_HOST INSTANCE_NAME INSTANCE_SID STATUS
```