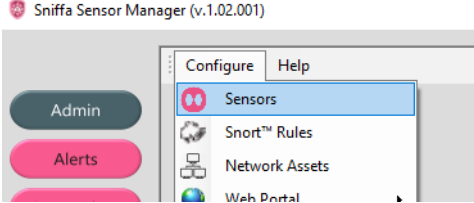
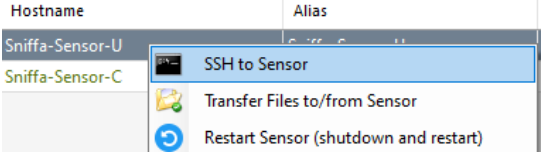
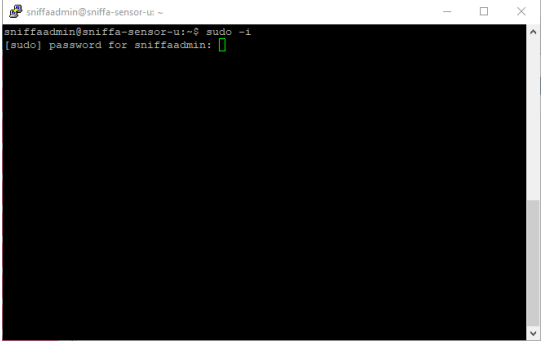
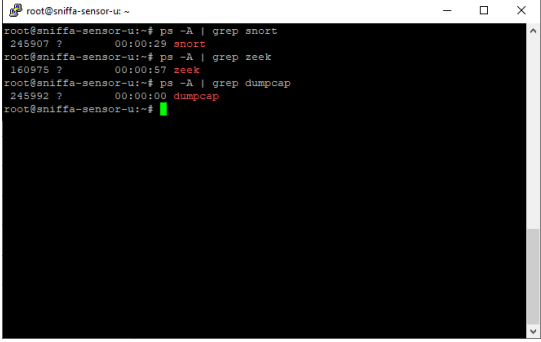


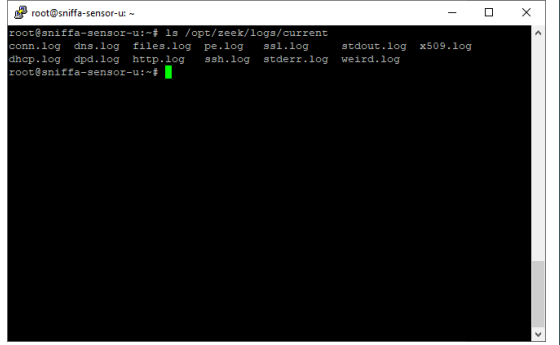
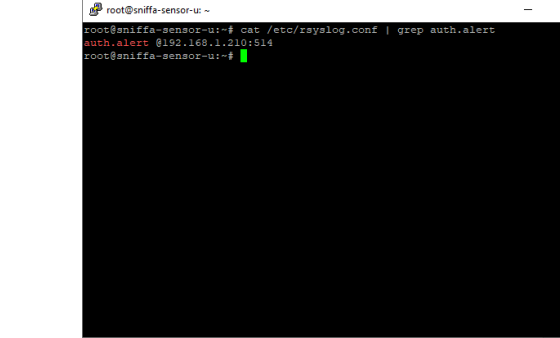
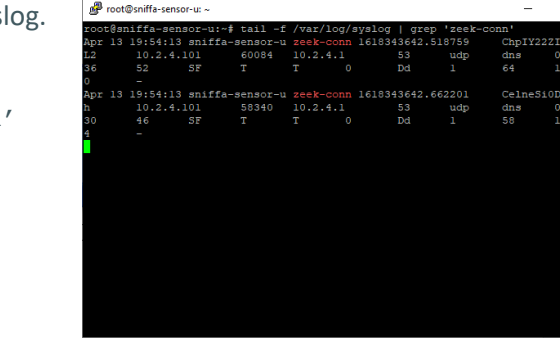
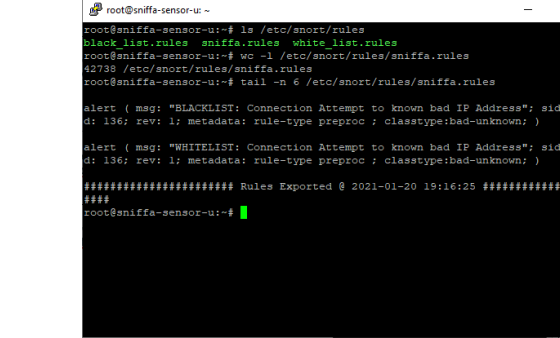
Sniffa Runbook

Troubleshooting the Sniffa NSS Sensor

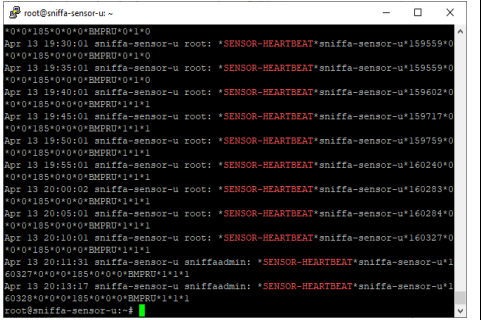
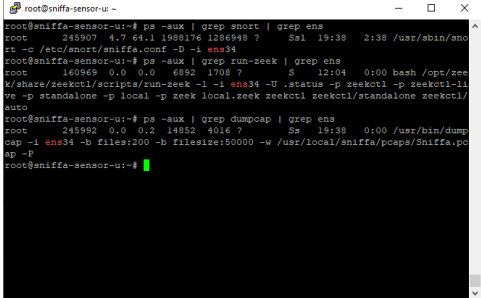
Serial	Instruction
	<p>Overview</p> <p>This runbook includes the tasks needed to be completed, to troubleshoot a Sniffa NSS remote Sensor on the network and show it is operating as is expected.</p>
<p>1.</p>	<p>Open the Sensor Manager Application.</p> <p>Go to the Admin Panel.</p> <p>Click on the 'Configure' menu item.</p> <p>Click on the 'Sensors' menu item.</p> 
<p>2.</p>	<p>Right click on the Sensor you want to troubleshoot.</p> <p>Click on the 'SSH to Sensor' menu item.</p> 
<p>3.</p>	<p>Run commands:</p> <pre>sudo -i</pre> <p>Enter password</p> 
<p>4.</p>	<p>Check the services are running.</p> <p>Run commands:</p> <pre>ps -A grep snort ps -A grep zeek ps -A grep dumpcap</pre> 

Sniffa Runbook

Troubleshooting the Sniffa NSS Sensor

<p>6.</p>	<p>Check Zeek logs are being written to the correct directory.</p> <p>Run commands: ls /opt/zeek/logs/current</p>	
<p>7.</p>	<p>Check that rsyslogd is configured to send alert log messages to the correct IP address.</p> <p>Run commands: cat /etc/rsyslog.conf grep auth.alert</p>	
<p>8.</p>	<p>Check that rsyslogd is sending alert log messages to syslog.</p> <p>Run commands: tail -f /var/log/syslog grep 'zeek-conn'</p> <p><i>Note:</i> <i>Hit Ctl + C to stop.</i></p>	
<p>9.</p>	<p>Check Snort™ rules files are present.</p> <p>Run commands: ls /etc/snort/rules</p> <p>Check that sniffa.rules is not empty.</p> <p>Run commands: wc -l /etc/snort/rules/sniffa.rules</p> <p>Check date of last rules update.</p> <p>Run commands: tail -n 6 /etc/snort/rules/sniffa.rules</p>	

Sniffa Runbook Troubleshooting the Sniffa NSS Sensor

<p>10.</p>	<p>Send a Sniffa Heartbeat Message to Syslog.</p> <p>Run commands: bash /usr/local/sniffa/heartbeat/heartbeat</p> <p>Check heartbeat message was logged by syslog.</p> <p>Run commands: cat /var/log/syslog grep HEARTBEAT</p>	 <pre> root@sniffa-sensor-u- *0*185*0*0*BMRU*0*1*0 Apr 13 19:30:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*159559*0 *0*185*0*0*BMRU*0*1*0 Apr 13 19:35:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*159559*0 *0*185*0*0*BMRU*0*1*0 Apr 13 19:40:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*159602*0 *0*185*0*0*BMRU*1*1 Apr 13 19:45:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*159717*0 *0*185*0*0*BMRU*1*1 Apr 13 19:50:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*159759*0 *0*185*0*0*BMRU*1*1 Apr 13 19:55:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*160240*0 *0*185*0*0*BMRU*1*1 Apr 13 20:00:02 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*160283*0 *0*185*0*0*BMRU*1*1 Apr 13 20:05:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*160284*0 *0*185*0*0*BMRU*1*1 Apr 13 20:10:01 sniffa-sensor-u root: *SENSOR-HEARTBEAT*sniffa-sensor-u*160327*0 *0*185*0*0*BMRU*1*1 Apr 13 20:11:31 sniffa-sensor-u sniffadmin: *SENSOR-HEARTBEAT*sniffa-sensor-u*1 60327*0*0*185*0*0*BMRU*1*1 Apr 13 20:13:17 sniffa-sensor-u sniffadmin: *SENSOR-HEARTBEAT*sniffa-sensor-u*1 60328*0*0*185*0*0*BMRU*1*1 root@sniffa-sensor-u-# </pre>
<p>11.</p>	<p>Check services are using the correct interface to listen on.</p> <p>Run commands: ps -aux grep snort grep ens ps -aux grep run-zeek grep ens ps -aux grep dumpcap grep ens</p>	 <pre> root@sniffa-sensor-u- root@sniffa-sensor-u-# ps -aux grep snort grep ens root 245907 4.7 64.1 1988176 1286948 ? Ssl 19:38 2:38 /usr/sbin/snort ps -w /etc/snort/sniffa.conf -D -f ens34 root@sniffa-sensor-u-# ps -aux grep run-zeek grep ens root 160969 0.0 0.0 6852 1708 ? S 12:04 0:00 bash /opt/zeek/share/zeekctl/scripts/run-zeek -i -1 ens34 -U .status -p zeekctl -p zeekctl-11 ps -w standalone -p local -p zeek local.zeek zeekctl/zeekctl/standalone zeekctl/ auto root@sniffa-sensor-u-# ps -aux grep dumpcap grep ens root 245992 0.0 0.2 14852 4816 ? Ss 19:38 0:00 /usr/bin/dumpcap -i ens34 -b file:200 -b filesize:50000 -w /usr/local/sniffa/pcaps/sniffa.pcap -P root@sniffa-sensor-u-# </pre>
<p>12.</p>	<p>End of Runbook.</p>	