

SNMP Server Setup and Configuration

In order to make iDNA Applications discoverable by applications like Service Now, this optional package can be installed on an Alma 9 appliance to set up an SNMP server to publish a set of configurable properties. Per default, a pre-defined set of properties will be published, but additional properties may be added by modifying `snmpd.conf` as described below.

The following properties are available per default:

Short Name	OID	Content	Description
sysObjectid	.1.3.6.1.2.1.1.2.0	Manufacturer Model OID	Default value: ".1.3.6.1.4.1.33766.30.7.3" (modification not recommended)
sysDescr	.1.3.6.1.2.1.1.1.0	Description	Default value: "iDNA Applications - HCL Domino Analytics by panagenda"
sysName	.1.3.6.1.2.1.1.5.0	System Name	Machine network name
sysContact	.1.3.6.1.2.1.1.4.0	System Contact	Typically an administrator email address
sysLocation	.1.3.6.1.2.1.1.6.0	System Location	Location of the machine (e.g. data center, VMWare farm, ...)
entPhysicalSerialNum	.1.3.6.1.2.1.47.1.1.1.11.0	Unique Machine ID	Unique identifier string (e.g. GUID generated by Linux command "uuidgen")
entPhysicalMfgName	.1.3.6.1.2.1.47.1.1.1.12.0	Manufacturer	Default value: "panagenda"
entPhysicalModelName	.1.3.6.1.2.1.47.1.1.1.13.0	Model or software title	Default value: "iDNA Applications 3"

Preparation

- Download the package :
<https://public.panagenda.com/download/idna/alma9-snmp.zip>
- Copy zip file to folder `/root/` on the appliance (using WinScp)
- Extract contents of zip file:
`unzip alma9-snmp.zip`
- Check if SNMP is already installed:
`systemctl status snmpd.service`
- If the service answers, you can SKIP the next paragraph "Install SNMP Server"

Install SNMP Server

- Enter directory "snmp":
`cd /root/snmp`
- Install packages in folder:
`rpm -ivh --force *.rpm`

Configure SNMP Server

- Enter directory "snmp":
`cd /root/snmp`
- Stop SNMP server:
`systemctl stop snmpd`
- Back up old snmp config file:
`mv /etc/snmp/snmpd.conf /etc/snmp/snmpd.conf.orig`
- Generate new UUID for next step (copy to notepad for further use):

uuidgen

- Edit snmpd.conf to enter newly generated GUID
`nano ./snmpd.conf`
- Replace string "GUID" in line .1.3.6.1.2.1.47.1.1.1.1.11.0 with new GUID
Example: override .1.3.6.1.2.1.47.1.1.1.1.11.0 `octet_str "6c422afb-b420-4f3b-84ff-cfb9e1431bde"`
- Check if hostname needs to be overridden (e.g. to show FQDN instead of CN)
Uncomment and edit line .1.3.6.1.2.1.1.5.0 if necessary
- Modify "syslocation" and "syscontact" as needed
- Copy new config file to /etc:
`cp ./snmpd.conf /etc/snmp/`
- Restart SNMP server:
`systemctl restart snmpd`
- Make sure SNMP service starts at boot time:
`systemctl enable snmpd`
- Test configuration:
`snmpwalk -v2c -c public localhost`

and/or

`snmpget -v1 -c public localhost .1.3.6.1.2.1.47.1.1.1.1.11.0`
- In case of errors, check logs:
`systemctl status snmpd`

and/or

`journalctl`