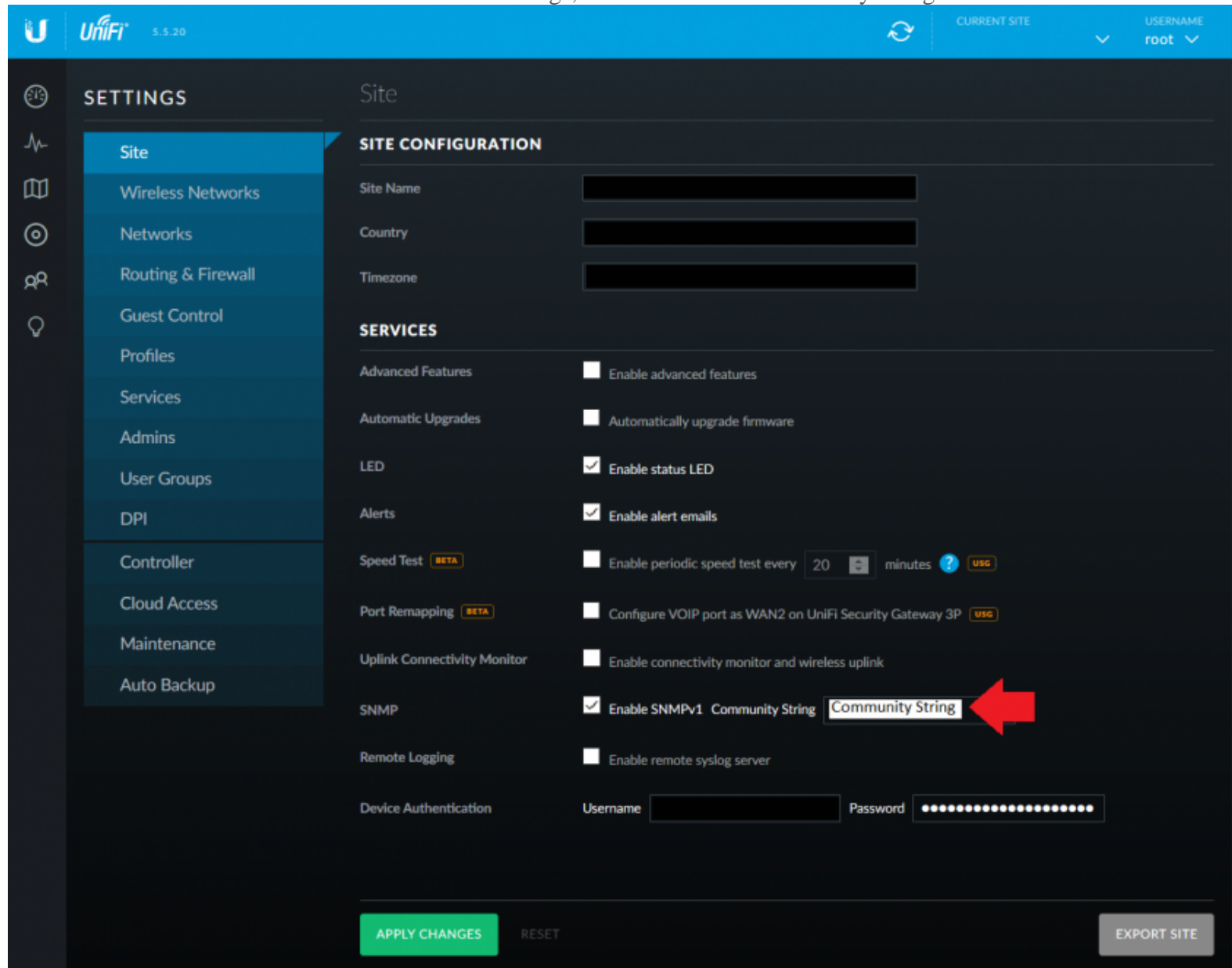Process - SNMP for Unifi AP

Assumption: Telegraf is already intalled and working

In the Unifi wireless controller enable SNMP in settings, make note of the community string

Run these commands on the server monitoring SNMP

```
sudo apt-get update
sudo apt-get install snmp snmp-mibs-downloader
sudo download-mib
```

Additional MIB libraries are needed, place them in "/usr/share/snmp/mibs", wget the following links:

```
FROGFOOT-RESOURCES-MIB
-- -*- mib -*-
DEFINITIONS ::= BEGIN
-- Frogfoot Networks CC Resources MIB
--
-- The idea behind this is to measure usage of resources.
-- It does not contain information about the system such as
-- cpu/disk types, etc.
--
IMPORTS
 MODULE-IDENTITY, OBJECT-TYPE, Integer32, Gauge32,
 enterprises
  FROM SNMPv2-SMI
 TEXTUAL-CONVENTION, DisplayString
  FROM SNMPv2-TC
 MODULE-COMPLIANCE, OBJECT-GROUP
  FROM SNMPv2-CONF;
resources  MODULE-IDENTITY
 LAST-UPDATED "200407170000Z"
 ORGANIZATION "Frogfoot Networks"
 CONTACT-INFO
  " Abraham van der Merwe
   Postal: Frogfoot Networks CC
     P.O. Box 23618
     Claremont
     Cape Town
     7735
     South Africa
   Phone: +27 82 565 4451
   Email: abz@frogfoot.net"
 DESCRIPTION
  "The MIB module to describe system resources."
 ::= { system 1 }
frogfoot  OBJECT IDENTIFIER ::= { enterprises 10002 }
servers   OBJECT IDENTIFIER ::= { frogfoot 1 }
system   OBJECT IDENTIFIER ::= { servers 1 }
memory   OBJECT IDENTIFIER ::= { resources 1 }
swap   OBJECT IDENTIFIER ::= { resources 2 }
storage   OBJECT IDENTIFIER ::= { resources 3 }
load   OBJECT IDENTIFIER ::= { resources 4 }
resMIB   OBJECT IDENTIFIER ::= { resources 31 }
resMIBObjects OBJECT IDENTIFIER ::= { resMIB 1 }
resConformance OBJECT IDENTIFIER ::= { resMIB 2 }
resGroups  OBJECT IDENTIFIER ::= { resConformance 1 }
resCompliances OBJECT IDENTIFIER ::= { resConformance 2 }
TableIndex ::= TEXTUAL-CONVENTION
 DISPLAY-HINT "d"
```

```
 STATUS   current
 DESCRIPTION
  "A unique value, greater than zero. It is recommended
  that values are assigned contiguously starting from 1."
 SYNTAX   Integer32 (1..2147483647)
--
-- Memory statistics
--
memTotal  OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "Total usable physical memory (in KB)"
 ::= { memory 1 }
memFree   OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "Available physical memory (in KB)"
 ::= { memory 2 }
memBuffer  OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "Physical memory used by buffers (in KB)"
 ::= { memory 3 }
memCache  OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "Physical memory used for caching (in KB)"
 ::= { memory 4 }
--
-- Swap space statistics
--
swapTotal  OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "Total swap space size (in KB)"
 ::= { swap 1 }
swapFree   OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
```

```
  "Swap space still available (in KB)"
 ::= { swap 2 }
--
-- Disk space statistics
--
diskNumber  OBJECT-TYPE
 SYNTAX   Integer32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "The number of mounted disks present on this system."
 ::= { storage 1 }
diskTable  OBJECT-TYPE
 SYNTAX   SEQUENCE OF DiskEntry
 MAX-ACCESS  not-accessible
 STATUS   current
 DESCRIPTION
  "A table of mounted disks on this system."
 ::= { storage 2 }
diskEntry  OBJECT-TYPE
 SYNTAX   DiskEntry
 MAX-ACCESS  not-accessible
 STATUS   current
 DESCRIPTION
  "An entry containing management information applicable
  to a particular mounted disk on the system."
 INDEX { diskIndex }
 ::= { diskTable 1 }
DiskEntry ::=
 SEQUENCE {
  diskIndex  TableIndex,
  diskDev   DisplayString,
  diskDir   DisplayString,
  diskFSType  INTEGER,
  diskTotal  Gauge32,
  diskFree  Gauge32
  }
diskIndex  OBJECT-TYPE
 SYNTAX   TableIndex
 MAX-ACCESS  not-accessible
 STATUS   current
 DESCRIPTION
  "A unique value, greater than zero, for each disk on the
  system. It is recommended that values are assigned contiguously
  starting from 1."
 ::= { diskEntry 1 }
diskDev   OBJECT-TYPE
 SYNTAX   DisplayString
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
```

"A textual string containing the disk device name."
  ::= { diskEntry 2 }
diskDir   OBJECT-TYPE
 SYNTAX   DisplayString
 MAX-ACCESS read-only
 STATUS   current
 DESCRIPTION
  "A textual string containing the disk mount point."
  ::= { diskEntry 3 }
diskFSType OBJECT-TYPE
 SYNTAX   INTEGER {
    unknown(0), -- Unknown File System
    adfs(1), -- Acorn Advanced Disc Filing System
    affs(2), -- Amiga Fast File System
    coda(3), -- CODA File System
    cramfs(4), -- cram File System for small storage (ROMs etc)
    ext2(5), -- Ext2 File System
    hpfs(6), -- OS/2 HPFS File System
    iso9660(7), -- ISO 9660 (CDROM) File System
    jffs2(8), -- Journalling Flash File System
    jfs(9),   -- JFS File System
    minix(10), -- Minix File System
    msdos(11), -- FAT-based File Systems
    ncpfs(12), -- Novell Netware(tm) File System
    nfs(13), -- Network File Sharing Protocol
    ntfs(14), -- NTFS File System (Windows NT)
    qnx4(15), -- QNX4 File System
    reiserfs(16), -- ReiserFS Journalling File System
    romfs(17), -- ROM File System
    smbfs(18), -- Server Message Block (SMB) Protocol
    sysv(19), -- SystemV/V7/Xenix/Coherent File System
    tmpfs(20), -- Virtual Memory File System
    udf(21), -- UDF (DVD, CDRW, etc) File System
    ufs(22), -- UFS File System (SunOS, FreeBSD, etc)
    vxfs(23), -- VERITAS VxFS(TM) File System
    xfs(24)   -- XFS (SGI) Journalling File System
    }
 MAX-ACCESS read-only
 STATUS   current
 DESCRIPTION
  "The type of file system present on the disk. This
  does not include fake file systems such as the proc file
  system, devfs, etc. Additional types may be assigned by
  Frogfoot Networks in the future."
  ::= { diskEntry 4 }
diskTotal OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS read-only
 STATUS   current
 DESCRIPTION
  "Total space on disk (in MB)"

```
    ::= { diskEntry 5 }
diskFree  OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "Disk space still available (in MB)"
 ::= { diskEntry 6 }
--
-- Load Average statistics
--
loadNumber  OBJECT-TYPE
 SYNTAX   Integer32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "The number of load averages stored in the
   load average table."
 ::= { load 1 }
loadTable  OBJECT-TYPE
 SYNTAX   SEQUENCE OF LoadEntry
 MAX-ACCESS  not-accessible
 STATUS   current
 DESCRIPTION
  "Load average information."
 ::= { load 2 }
loadEntry  OBJECT-TYPE
 SYNTAX   LoadEntry
 MAX-ACCESS  not-accessible
 STATUS   current
 DESCRIPTION
  "An entry containing load average information."
 INDEX { loadIndex }
 ::= { loadTable 1 }
LoadEntry ::=
 SEQUENCE {
  loadIndex  TableIndex,
  loadDescr  DisplayString,
  loadValue  Gauge32
  }
loadIndex  OBJECT-TYPE
 SYNTAX   TableIndex
 MAX-ACCESS  not-accessible
 STATUS   current
 DESCRIPTION
  "A unique value, greater than zero, for each
   load average stored."
 ::= { loadEntry 1 }
loadDescr  OBJECT-TYPE
 SYNTAX   DisplayString
 MAX-ACCESS  read-only
```

```
 STATUS   current
 DESCRIPTION
  "A description of each load average."
 ::= { loadEntry 2 }
loadValue  OBJECT-TYPE
 SYNTAX   Gauge32
 MAX-ACCESS  read-only
 STATUS   current
 DESCRIPTION
  "The 1,5 and 10 minute load averages. These values are
  stored as a percentage of processor load."
 ::= { loadEntry 3 }
--
-- Compliance Statements
--
resCompliance MODULE-COMPLIANCE
 STATUS current
 DESCRIPTION
  "The compliance statement for SNMP entities which have
  system resources such as volatile and non-volatile
  storage."
 MODULE
 MANDATORY-GROUPS { resMemGroup, resSwapGroup, resDiskGroup, resLoadGroup }
 GROUP resMemGroup
 DESCRIPTION
  "This group is mandatory for those systems which have
  any form of volatile storage."
 GROUP resSwapGroup
 DESCRIPTION
  "This group is mandatory for those systems which have
  the ability to temporarily swap unused pages to disk."
 GROUP resDiskGroup
 DESCRIPTION
  "This group is mandatory for those systems which have
  any form of non-volatile storage."
 GROUP resLoadGroup
 DESCRIPTION
  "This group is mandatory for those systems which store
  any form of processor load average information."
 ::= { resCompliances 1 }
resMemGroup  OBJECT-GROUP
 OBJECTS { memTotal, memFree, memBuffer, memCache }
 STATUS   current
 DESCRIPTION
  "A collection of objects providing information specific to
  volatile system storage."
 ::= { resGroups 1 }
resSwapGroup OBJECT-GROUP
 OBJECTS { swapTotal, swapFree }
 STATUS   current
 DESCRIPTION
```

```
     "A collection of objects providing information specific to
      storage used for swapping pages to disk."
     ::= { resGroups 2 }
   resDiskGroup OBJECT-GROUP
    OBJECTS { diskNumber, diskDev, diskDir, diskFSType, diskTotal, diskFree }
    STATUS   current
    DESCRIPTION
     "A collection of objects providing information specific to
      non-volatile system storage."
     ::= { resGroups 3 }
   resLoadGroup OBJECT-GROUP
    OBJECTS { loadNumber, loadDescr, loadValue }
    STATUS   current
    DESCRIPTION
     "A collection of objects providing information specific to
      processor load averages."
     ::= { resGroups 4 }
```

http://dl.ubnt-ut.com/snmp/UBNT-MIB

```
UBNT-MIB DEFINITIONS ::= BEGIN
   IMPORTS
      MODULE-IDENTITY, OBJECT-TYPE, Integer32, enterprises FROM SNMPv2-SMI
      DisplayString FROM SNMPv2-TC
      OBJECT-GROUP, MODULE-COMPLIANCE FROM SNMPv2-CONF;
   ubntMIB MODULE-IDENTITY
   LAST-UPDATED "201402270000Z"
   ORGANIZATION "Ubiquiti Networks, Inc."
   CONTACT-INFO "support@ubnt.com"
   DESCRIPTION  "The MIB module for Ubiquiti Networks, Inc. entities"
   REVISION "201402270000Z"
   DESCRIPTION "Split revision"
   ::= { ubnt 1 }
   -- -----------------------------------------------------------------------------
   --                Ubiquiti Networks Root
   -- -----------------------------------------------------------------------------
   ubnt OBJECT IDENTIFIER ::= { enterprises 41112 }
   -- -----------------------------------------------------------------------------
   --                Ubiquiti Networks SNMP Information
   -- -----------------------------------------------------------------------------
   ubntSnmpInfo OBJECT IDENTIFIER ::= { ubntMIB 2 }
   ubntSnmpGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 1}
   ubntAirosGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 2}
   ubntAirFiberGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 3}
   ubntEdgeMaxGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 4}
   ubntUniFiGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 5}
   ubntAirVisionGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 6}
   ubntMFiGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 7}
   ubntUniTelGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 8}
```

```
-- -----------------------------------------------------------------------------
--                 Ubiquiti Networks Products
-- -----------------------------------------------------------------------------

ubntAirFIBER OBJECT IDENTIFIER ::= { ubntMIB 3 }
ubntEdgeMax OBJECT IDENTIFIER ::= { ubntMIB 5 }
ubntUniFi OBJECT IDENTIFIER ::= { ubntMIB 6 }
ubntAirVision OBJECT IDENTIFIER ::= { ubntMIB 7 }
ubntMFi OBJECT IDENTIFIER ::= { ubntMIB 8 }
ubntUniTel OBJECT IDENTIFIER ::= { ubntMIB 9 }
-- -----------------------------------------------------------------------------
--                 Ubiquiti Networks OR table
-- -----------------------------------------------------------------------------
ubntORTable OBJECT-TYPE
   SYNTAX     SEQUENCE OF UbntOREntry
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION "Capabilities"
   ::= { ubntMIB 1 }
ubntOREntry OBJECT-TYPE
   SYNTAX     UbntOREntry
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION "An entry in the ubntORTable"
   INDEX      { ubntORIndex }
   ::= { ubntORTable 1 }
UbntOREntry ::= SEQUENCE {
   ubntORIndex     Integer32,
   ubntORID        OBJECT IDENTIFIER,
   ubntORDescr     DisplayString
}
ubntORIndex OBJECT-TYPE
   SYNTAX     Integer32 (1..255)
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION "Index for the ubntORTable"
   ::= { ubntOREntry 1 }
ubntORID OBJECT-TYPE
   SYNTAX     OBJECT IDENTIFIER
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION "OR ID"
   ::= { ubntOREntry 2 }
ubntORDescr OBJECT-TYPE
   SYNTAX     DisplayString
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION "Description of idenfifier"
   ::= { ubntOREntry 3 }
ubntORInfoGroup OBJECT-GROUP
   OBJECTS { ubntORID,
```

```
              ubntORDescr }
      STATUS current
      DESCRIPTION "Collection of related objects"
      ::= { ubntSnmpGroups 1 }
   ubntORCompliance MODULE-COMPLIANCE
      STATUS current
      DESCRIPTION "The compliance statement for Ubiquiti entities."
      MODULE
         GROUP ubntORInfoGroup
         DESCRIPTION "This group is for Ubiquiti systems."
      ::= { ubntSnmpGroups 2 }
   END
```

http://dl.ubnt-ut.com/snmp/UBNT-UniFi-MIB

```
UBNT-UniFi-MIB DEFINITIONS ::= BEGIN
IMPORTS
   MODULE-IDENTITY, OBJECT-TYPE, Integer32, Unsigned32, Counter32, Gauge32, IpAddress, enterprises
      FROM SNMPv2-SMI
   TEXTUAL-CONVENTION, DisplayString, MacAddress, DateAndTime, TruthValue
      FROM SNMPv2-TC
   MODULE-COMPLIANCE, OBJECT-GROUP
      FROM SNMPv2-CONF
   ubntMIB, ubntUniFi, ubntUniFiGroups
      FROM UBNT-MIB;
ubntUniFi MODULE-IDENTITY
  LAST-UPDATED "201606250000Z"
  ORGANIZATION "Ubiquiti Networks, Inc."
  CONTACT-INFO "support@ubnt.com"
  DESCRIPTION "The UniFi MIB module for Ubiquiti Networks, Inc. entities"
  REVISION "201606250000Z"
  DESCRIPTION "Initial Revision."
  ::= { ubntMIB 6 }
unifiApWireless OBJECT IDENTIFIER ::= { ubntUniFi 1 }
unifiApIf      OBJECT IDENTIFIER ::= { ubntUniFi 2 }
unifiApSystem   OBJECT IDENTIFIER ::= { ubntUniFi 3 }
TableIndex ::= TEXTUAL-CONVENTION
 DISPLAY-HINT "d"
 STATUS   current
 DESCRIPTION
  "A unique value, greater than zero. It is recommended
  that values are assigned contiguously starting from 1."
 SYNTAX   Integer32 (1..2147483647)
ObjectIndex ::= TEXTUAL-CONVENTION
   DISPLAY-HINT "x"
   STATUS current
   DESCRIPTION "Internal "
   SYNTAX Integer32 (0..2147483647)
-- SYNTAX Integer32 (-2147483648..2147483647)
```

```
-- SYNTAX Unsigned32 (0..4294967295)
Voltage ::= TEXTUAL-CONVENTION
   DISPLAY-HINT "d-2"
   STATUS current
   DESCRIPTION ""
   SYNTAX Integer32 (-2147483648..2147483647)
Temperature ::= TEXTUAL-CONVENTION
   DISPLAY-HINT "d-1"
   STATUS current
   DESCRIPTION ""
   SYNTAX Integer32 (-2147483648..2147483647)
unifiIfTable OBJECT-TYPE
   SYNTAX SEQUENCE OF UbntIfEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION ""
   ::= { unifiApIf 1 }
unifiIfEntry OBJECT-TYPE
   SYNTAX UbntIfEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION "Ethernet interface"
   INDEX { unifiIfIndex }
   ::= { unifiIfTable 1 }

UbntIfEntry ::= SEQUENCE {
   unifiIfIndex ObjectIndex,
   unifiIfFullDuplex TruthValue,
   unifiIfIp IpAddress,
   unifiIfMac MacAddress,
   unifiIfName DisplayString,
   unifiIfRxBytes Counter32,
   unifiIfRxDropped Counter32,
   unifiIfRxError Counter32,
   unifiIfRxMulticast Counter32,
   unifiIfRxPackets Counter32,
   unifiIfSpeed Integer32,
   unifiIfTxBytes Counter32,
   unifiIfTxDropped Counter32,
   unifiIfTxError Counter32,
   unifiIfTxPackets Counter32,
   unifiIfUp TruthValue
}
unifiIfIndex OBJECT-TYPE
   SYNTAX ObjectIndex
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION ""
   ::= { unifiIfEntry 1 }
unifiIfFullDuplex OBJECT-TYPE
   SYNTAX TruthValue
```

```
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 2 }
   unifiIfIp OBJECT-TYPE
      SYNTAX IpAddress
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 3 }
   unifiIfMac OBJECT-TYPE
      SYNTAX MacAddress
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 4 }
   unifiIfName OBJECT-TYPE
      SYNTAX DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 5 }
   unifiIfRxBytes OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 6 }
   unifiIfRxDropped OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 7 }
   unifiIfRxError OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 8 }
   unifiIfRxMulticast OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiIfEntry 9 }
   unifiIfRxPackets OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
```

```
    ::= { unifiIfEntry 10 }
unifiIfSpeed OBJECT-TYPE
   SYNTAX Integer32
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiIfEntry 11 }
unifiIfTxBytes OBJECT-TYPE
   SYNTAX Counter32
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiIfEntry 12 }
unifiIfTxDropped OBJECT-TYPE
   SYNTAX Counter32
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiIfEntry 13 }
unifiIfTxError OBJECT-TYPE
   SYNTAX Counter32
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiIfEntry 14 }
unifiIfTxPackets OBJECT-TYPE
   SYNTAX Counter32
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiIfEntry 15 }
unifiIfUp OBJECT-TYPE
   SYNTAX TruthValue
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiIfEntry 16 }
unifiRadioTable OBJECT-TYPE
   SYNTAX SEQUENCE OF UbntRadioEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION ""
   ::= { unifiApWireless 1 }
unifiRadioEntry OBJECT-TYPE
   SYNTAX UbntRadioEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION "Wireless interface"
   INDEX { unifiRadioIndex }
   ::= { unifiRadioTable 1 }
UbntRadioEntry ::= SEQUENCE {
```

```
    unifiRadioIndex ObjectIndex,
    unifiRadioName DisplayString,
    unifiRadioRadio DisplayString,
    unifiRadioRxPackets Counter32,
    unifiRadioTxPackets Counter32,
    unifiRadioCuTotal Integer32,
    unifiRadioCuSelfRx Integer32,
    unifiRadioCuSelfTx Integer32,
    unifiRadioOtherBss Integer32
}
unifiRadioIndex OBJECT-TYPE
    SYNTAX ObjectIndex
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 1 }
unifiRadioName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 2 }
unifiRadioRadio OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 3 }
unifiRadioRxPackets OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 4 }
unifiRadioTxPackets OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 5 }
unifiRadioCuTotal OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 6 }
unifiRadioCuSelfRx OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
```

```
   ::= { unifiRadioEntry 7 }
unifiRadioCuSelfTx OBJECT-TYPE
   SYNTAX Integer32
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiRadioEntry 8 }
unifiRadioOtherBss OBJECT-TYPE
   SYNTAX Integer32
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION ""
   ::= { unifiRadioEntry 9 }
unifiVapTable OBJECT-TYPE
   SYNTAX SEQUENCE OF UbntVapEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION ""
   ::= { unifiApWireless 2 }
unifiVapEntry OBJECT-TYPE
   SYNTAX UbntVapEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION "BSS"
   INDEX { unifiVapIndex }
   ::= { unifiVapTable 1 }
UbntVapEntry ::= SEQUENCE {
   unifiVapIndex ObjectIndex,
   unifiVapBssId MacAddress,
   unifiVapCcq Integer32,
   unifiVapChannel Integer32,
   unifiVapExtChannel Integer32,
   unifiVapEssId DisplayString,
   unifiVapName DisplayString,
   unifiVapNumStations Integer32,
   unifiVapRadio DisplayString,
   unifiVapRxBytes Counter32,
   unifiVapRxCrypts Counter32,
   unifiVapRxDropped Counter32,
   unifiVapRxErrors Counter32,
   unifiVapRxFrags Counter32,
   unifiVapRxPackets Counter32,
   unifiVapTxBytes Counter32,
   unifiVapTxDropped Counter32,
   unifiVapTxErrors Counter32,
   unifiVapTxPackets Counter32,
   unifiVapTxRetries Counter32,
   unifiVapTxPower Integer32,
   unifiVapUp TruthValue,
   unifiVapUsage DisplayString
}
```

```
unifiVapIndex OBJECT-TYPE
  SYNTAX ObjectIndex
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 1 }
unifiVapBssId OBJECT-TYPE
  SYNTAX MacAddress
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 2 }
unifiVapCcq OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 3 }
unifiVapChannel OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 4 }
unifiVapExtChannel OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 5 }
unifiVapEssId OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 6 }
unifiVapName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 7 }
unifiVapNumStations OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 8 }
unifiVapRadio OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
```

```
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 9 }
unifiVapRxBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 10 }
unifiVapRxCrypts OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 11 }
unifiVapRxDropped OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 12 }
unifiVapRxErrors OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 13 }
unifiVapRxFrags OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 14 }
unifiVapRxPackets OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 15 }
unifiVapTxBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 16 }
unifiVapTxDropped OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 17 }
```

```
unifiVapTxErrors OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 18 }
unifiVapTxPackets OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 19 }
unifiVapTxRetries OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 20 }
unifiVapTxPower OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 21 }
unifiVapUp OBJECT-TYPE
  SYNTAX TruthValue
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiVapEntry 22 }
unifiVapUsage OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION "guest or regular user"
  ::= { unifiVapEntry 23 }
unifiApSystemIp OBJECT-TYPE
  SYNTAX IpAddress
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiApSystem 1 }
unifiApSystemIsolated OBJECT-TYPE
  SYNTAX TruthValue
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION ""
  ::= { unifiApSystem 2 }
unifiApSystemModel OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
```

```
      STATUS current
      DESCRIPTION ""
      ::= { unifiApSystem 3 }
unifiApSystemUplink OBJECT-TYPE
      SYNTAX DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiApSystem 4 }
unifiApSystemUptime OBJECT-TYPE
      SYNTAX Counter32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiApSystem 5 }
unifiApSystemVersion OBJECT-TYPE
      SYNTAX DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION ""
      ::= { unifiApSystem 6 }
unifiIfGroup OBJECT-GROUP OBJECTS {
      unifiIfFullDuplex,
      unifiIfIp,
      unifiIfMac,
      unifiIfName,
      unifiIfRxBytes,
      unifiIfRxDropped,
      unifiIfRxError,
      unifiIfRxMulticast,
      unifiIfRxPackets,
      unifiIfSpeed,
      unifiIfTxBytes,
      unifiIfTxDropped,
      unifiIfTxError,
      unifiIfTxPackets,
      unifiIfUp
      }
      STATUS current
      DESCRIPTION ""
      ::= { ubntUniFiGroups 1 }
unifiRadioGroups OBJECT-GROUP OBJECTS {
      unifiRadioName,
      unifiRadioRadio,
      unifiRadioRxPackets,
      unifiRadioTxPackets,
      unifiRadioCuTotal,
      unifiRadioCuSelfRx,
      unifiRadioCuSelfTx,
      unifiRadioOtherBss
      }
```

```
      STATUS current
      DESCRIPTION ""
      ::= { ubntUniFiGroups 2 }
  unifiVapGroups OBJECT-GROUP OBJECTS {
      unifiVapBssId,
      unifiVapCcq,
      unifiVapChannel,
      unifiVapExtChannel,
      unifiVapEssId,
      unifiVapName,
      unifiVapNumStations,
      unifiVapRadio,
      unifiVapRxBytes,
      unifiVapRxCrypts,
      unifiVapRxDropped,
      unifiVapRxErrors,
      unifiVapRxFrags,
      unifiVapRxPackets,
      unifiVapTxBytes,
      unifiVapTxDropped,
      unifiVapTxErrors,
      unifiVapTxPackets,
      unifiVapTxRetries,
      unifiVapTxPower,
      unifiVapUp,
      unifiVapUsage
      }
      STATUS current
      DESCRIPTION ""
      ::= { ubntUniFiGroups 3 }
  unifiApSystemGroup OBJECT-GROUP OBJECTS {
      unifiApSystemIp, unifiApSystemIsolated, unifiApSystemModel, unifiApSystemUplink, unifiApSystemUptime, unifi
      }
      STATUS current
      DESCRIPTION ""
      ::= { ubntUniFiGroups 4 }
  END
```

https://github.com/WaterByWind/grafana-dashboards/tree/master/UniFi-UAP
Place this code into /etc/telegraf/telgraph.d/telegraf-unifi-inputs.conf
Edit the agent and community string list to needs

```
# Telegraf Configuration for UniFi UAP monitoring via SNMP
# These input configurations are required for use with the dashboard
# Edit the list of monitored hosts ("agents")
#   and SNMP community string ("community") as appropriate.
################################################################################
#                      INPUT PLUGINS                        #
```

```
###############################################################################
##
## Retrieves details via SNMP from remote agents
##
##
## UniFi APs (Gen 2/Gen 3)
##
[[inputs.snmp]]
  # List of agents to poll   agents = [ "uap1", "uap2
" ]
  # Polling interval
  interval = "60s"
  # Timeout for each SNMP query.
  timeout = "10s"
  # Number of retries to attempt within timeout.
  retries = 3
  # SNMP version, UAP only supports v1
  version = 1
  # SNMP community string.   community = "public
"
  # The GETBULK max-repetitions parameter
  max_repetitions = 10
  # Measurement name
  name = "snmp.UAP"
  ##
  ## System Details
  ##
  #  System name (hostname)
  [[inputs.snmp.field]]
    is_tag = true
    name = "sysName"
    oid = "RFC1213-MIB::sysName.0"
  #  System vendor OID
  [[inputs.snmp.field]]
    name = "sysObjectID"
    oid = "RFC1213-MIB::sysObjectID.0"
  #  System description
  [[inputs.snmp.field]]
    name = "sysDescr"
    oid = "RFC1213-MIB::sysDescr.0"
  #  System contact
  [[inputs.snmp.field]]
    name = "sysContact"
    oid = "RFC1213-MIB::sysContact.0"
  #  System location
  [[inputs.snmp.field]]
    name = "sysLocation"
    oid = "RFC1213-MIB::sysLocation.0"
  #  System uptime
  [[inputs.snmp.field]]
    name = "sysUpTime"
```

```
  oid = "RFC1213-MIB::sysUpTime.0"
# UAP model
[[inputs.snmp.field]]
  name = "unifiApSystemModel"
  oid = "UBNT-UniFi-MIB::unifiApSystemModel"
# UAP firmware version
[[inputs.snmp.field]]
  name = "unifiApSystemVersion"
  oid = "UBNT-UniFi-MIB::unifiApSystemVersion"
##
## Host Resources
##
# Total memory
[[inputs.snmp.field]]
  name = "memTotal"
  oid = "FROGFOOT-RESOURCES-MIB::memTotal.0"
# Free memory
[[inputs.snmp.field]]
  name = "memFree"
  oid = "FROGFOOT-RESOURCES-MIB::memFree.0"
# Buffer memory
[[inputs.snmp.field]]
  name = "memBuffer"
  oid = "FROGFOOT-RESOURCES-MIB::memBuffer.0"
# Cache memory
[[inputs.snmp.field]]
  name = "memCache"
  oid = "FROGFOOT-RESOURCES-MIB::memCache.0"
# Per-interface traffic, errors, drops
[[inputs.snmp.table]]
  oid = "IF-MIB::ifTable"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "IF-MIB::ifDescr"
##
## Interface Details & Metrics
##
# Wireless interfaces
[[inputs.snmp.table]]
  oid = "UBNT-UniFi-MIB::unifiRadioTable"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiRadioName"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiRadioRadio"
# BSS instances
[[inputs.snmp.table]]
  oid = "UBNT-UniFi-MIB::unifiVapTable"
  [[inputs.snmp.table.field]]
    is_tag = true
```

```
    oid = "UBNT-UniFi-MIB::unifiVapName"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiVapRadio"
# Ethernet interfaces
[[inputs.snmp.table]]
  oid = "UBNT-UniFi-MIB::unifiIfTable"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiIfName"
##
## System Performance
##
# System load averages
[[inputs.snmp.table]]
  oid = "FROGFOOT-RESOURCES-MIB::loadTable"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "FROGFOOT-RESOURCES-MIB::loadDescr"
##
## SNMP metrics
##
# Number of SNMP messages received
[[inputs.snmp.field]]
  name = "snmpInPkts"
  oid = "SNMPv2-MIB::snmpInPkts.0"
# Number of SNMP Get-Request received
[[inputs.snmp.field]]
  name = "snmpInGetRequests"
  oid = "SNMPv2-MIB::snmpInGetRequests.0"
# Number of SNMP Get-Next received
[[inputs.snmp.field]]
  name = "snmpInGetNexts"
  oid = "SNMPv2-MIB::snmpInGetNexts.0"
# Number of SNMP objects requested
[[inputs.snmp.field]]
  name = "snmpInTotalReqVars"
  oid = "SNMPv2-MIB::snmpInTotalReqVars.0"
# Number of SNMP Get-Response received
[[inputs.snmp.field]]
  name = "snmpInGetResponses"
  oid = "SNMPv2-MIB::snmpInGetResponses.0"
# Number of SNMP messages sent
[[inputs.snmp.field]]
  name = "snmpOutPkts"
  oid = "SNMPv2-MIB::snmpOutPkts.0"
# Number of SNMP Get-Request sent
[[inputs.snmp.field]]
  name = "snmpOutGetRequests"
  oid = "SNMPv2-MIB::snmpOutGetRequests.0"
# Number of SNMP Get-Next sent
```

```
[[inputs.snmp.field]]
  name = "snmpOutGetNexts"
  oid = "SNMPv2-MIB::snmpOutGetNexts.0"
# Number of SNMP Get-Response sent
[[inputs.snmp.field]]
  name = "snmpOutGetResponses"oid = "SNMPv2-MIB::snmpOutGetResponses.0"
```

Test with this command

```
telegraf --config /etc/telegraf/telegraf.conf --config-directory /etc/telegraf/telegraf.d/ --input-filter snmp -test
```

And enable the service for persistence

```
sudo systemctl enable telegraf.service
sudo reboot
```

Created 1 month ago by Admin
Updated 8 seconds ago by Admin