Script controla fan - decimal/hexadecinal

Link: https://forum.proxmox.com/threads/ipmi-tool-error-after-v8-upgrade.129334/page-2

Bash:

```
#!/bin/bash

# Fancontrol v1.1 2022-09-15 15:42

# Define variables

MAX_FAN=90
MIN_FAN=20
HIGH_TEMP=37
LOW_TEMP=35
SPEED_STEP=10
IDRAC_IP=10.0.0.1
IPMI_USER=fancontrol
IPMI_PASSWORD=yoursupercomplexpassword

# Define Functions

ENABLE_FAN ()
{
 ipmitool -I lanplus -H $IDRAC_IP -U $IPMI_USER -P $IPMI_PASSWORD raw 0x30 0x30 0x01 0x00 >
/dev/null 2>&1
}


GET_TEMP ()
{
 ipmitool -I lanplus -H $IDRAC_IP -U $IPMI_USER -P $IPMI_PASSWORD  sensor reading "Exhaust
Temp"|sed 's/[^0-9]//g'
}
```

```
SET_FAN ()
{
 ipmitool -I lanplus -H $IDRAC_IP -U $IPMI_USER -P $IPMI_PASSWORD raw 0x30 0x30 0x02 0xff
$FAN_SETTING > /dev/null 2>&1
}

# File to save the last fan speed

 [ -f fan_speed.last ] || echo $MIN_FAN > fan_speed.last

FAN_SPEED=$(<fan_speed.last)

#-------------------------------------------------------------------------------------

CURRENT_TEMP=$(GET_TEMP)                # get the current temperature

 if (($CURRENT_TEMP > $HIGH_TEMP)) ; then
    FAN_SPEED=$(expr $FAN_SPEED + $SPEED_STEP)
     if (($FAN_SPEED > $MAX_FAN)) ; then
                FAN_SPEED=$MAX_FAN
        fi
 fi

 if (($CURRENT_TEMP < $LOW_TEMP)) ; then
     FAN_SPEED=$(expr $FAN_SPEED - $SPEED_STEP)
     if (($FAN_SPEED < $MIN_FAN)) ; then
         FAN_SPEED=$MIN_FAN
     fi
 fi

FAN_SETTING=$(printf "0x"'%x\n' $FAN_SPEED)
ENABLE_FAN
SET_FAN

logger -t FanControl "Current Temperature" $CURRENT_TEMP"C" "Fans at" $FAN_SPEED"%"
echo $FAN_SPEED > fan_speed.last

exit 0
```

Informações adicionais:

Launch a command prompt on the server and navigate to the directory above. Then run the following commands, substituting the ip address (-H), username (-U), and password (-P) of your iDRAC:

```
To enable remote fan control: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x01 0x00

To set the fan to 20%: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x02 0xff 0x14

To set the fan to 25%: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x02 0xff 0x19

To set the fan to 30%: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x02 0xff 0x1e

To set the fan to 35%: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x02 0xff 0x23

To set the fan to 40%: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x02 0xff 0x28

To set the fan to 45%: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x02 0xff 0x2D

To set the fan to 50%: ipmitool -I lanplus -H 192.168.1.240 -U root -P calvin raw 0x30 0x30 0x02 0xff 0x32
```

TABELA CONVERSÃO DECIMAL PARA HEXADECIMAL

Decimal-hexadecimal-binary conversion table

Dec	Hex	Bin	Dec	Hex	Bin	Dec	Hex	Bin	Dec	Hex	Bin
0	0	00000000	64	40	01000000	128	80	10000000	192	c0	11000000
1	1	00000001	65	41	01000001	129	81	10000001	193	c1	11000001
2	2	00000010	66	42	01000010	130	82	10000010	194	c2	11000010
3	3	00000011	67	43	01000011	131	83	10000011	195	c3	11000011
4	4	00000100	68	44	01000100	132	84	10000100	196	c4	11000100
5	5	00000101	69	45	01000101	133	85	10000101	197	c5	11000101
6	6	00000110	70	46	01000110	134	86	10000110	198	c6	11000110
7	7	00000111	71	47	01000111	135	87	10000111	199	c7	11000111
8	8	00001000	72	48	01001000	136	88	10001000	200	c8	11001000
9	9	00001001	73	49	01001001	137	89	10001001	201	c9	11001001
10	a	00001010	74	4a	01001010	138	8a	10001010	202	ca	11001010
11	b	00001011	75	4b	01001011	139	8b	10001011	203	cb	11001011

12	c	000 011 00	76	4c	010 011 00	140	8c	100 011 00	204	cc	110 011 00
13	d	000 011 01	77	4d	010 011 01	141	8d	100 011 01	205	cd	110 011 01
14	e	000 011 10	78	4e	010 011 10	142	8e	100 011 10	206	ce	110 011 10
15	f	000 011 11	79	4f	010 011 11	143	8f	100 011 11	207	cf	110 011 11
16	10	000 100 00	80	50	010 100 00	144	90	100 100 00	208	d0	110 100 00
17	11	000 100 01	81	51	010 100 01	145	91	100 100 01	209	d1	110 100 01
18	12	000 100 10	82	52	010 100 10	146	92	100 100 10	210	d2	110 100 10
19	13	000 100 11	83	53	010 100 11	147	93	100 100 11	211	d3	110 100 11
20	14	000 101 00	84	54	010 101 00	148	94	100 101 00	212	d4	110 101 00
21	15	000 101 01	85	55	010 101 01	149	95	100 101 01	213	d5	110 101 01
22	16	000 101 10	86	56	010 101 10	150	96	100 101 10	214	d6	110 101 10
23	17	000 101 11	87	57	010 101 11	151	97	100 101 11	215	d7	110 101 11
24	18	000 110 00	88	58	010 110 00	152	98	100 110 00	216	d8	110 110 00

25	19	000 110 01	89	59	010 110 01	153	99	100 110 01	217	d9	110 110 01
26	1a	000 110 10	90	5a	010 110 10	154	9a	100 110 10	218	da	110 110 10
27	1b	000 110 11	91	5b	010 110 11	155	9b	100 110 11	219	db	110 110 11
28	1c	000 111 00	92	5c	010 111 00	156	9c	100 111 00	220	dc	110 111 00
29	1d	000 111 01	93	5d	010 111 01	157	9d	100 111 01	221	dd	110 111 01
30	1e	000 111 10	94	5e	010 111 10	158	9e	100 111 10	222	de	110 111 10
31	1f	000 111 11	95	5f	010 111 11	159	9f	100 111 11	223	df	110 111 11
32	20	001 000 00	96	60	011 000 00	160	a0	101 000 00	224	e0	111 000 00
33	21	001 000 01	97	61	011 000 01	161	a1	101 000 01	225	e1	111 000 01
34	22	001 000 10	98	62	011 000 10	162	a2	101 000 10	226	e2	111 000 10
35	23	001 000 11	99	63	011 000 11	163	a3	101 000 11	227	e3	111 000 11
36	24	001 001 00	100	64	011 001 00	164	a4	101 001 00	228	e4	111 001 00
37	25	001 001 01	101	65	011 001 01	165	a5	101 001 01	229	e5	111 001 01

38	26	00100110	102	66	01100110	166	a6	10100110	230	e6	11100110
39	27	00100111	103	67	01100111	167	a7	10100111	231	e7	11100111
40	28	00101000	104	68	01101000	168	a8	10101000	232	e8	11101000
41	29	00101001	105	69	01101001	169	a9	10101001	233	e9	11101001
42	2a	00101010	106	6a	01101010	170	aa	10101010	234	ea	11101010
43	2b	00101011	107	6b	01101011	171	ab	10101011	235	eb	11101011
44	2c	00101100	108	6c	01101100	172	ac	10101100	236	ec	11101100
45	2d	00101101	109	6d	01101101	173	ad	10101101	237	ed	11101101
46	2e	00101110	110	6e	01101110	174	ae	10101110	238	ee	11101110
47	2f	00101111	111	6f	01101111	175	af	10101111	239	ef	11101111
48	30	00110000	112	70	01110000	176	b0	10110000	240	f0	11110000
49	31	00110001	113	71	01110001	177	b1	10110001	241	f1	11110001
50	32	00110010	114	72	01110010	178	b2	10110010	242	f2	11110010

51	33	00110011	115	73	01110011	179	b3	10110011	243	f3	11110011
52	34	00110100	116	74	01110100	180	b4	10110100	244	f4	11110100
53	35	00110101	117	75	01110101	181	b5	10110101	245	f5	11110101
54	36	00110110	118	76	01110110	182	b6	10110110	246	f6	11110110
55	37	00110111	119	77	01110111	183	b7	10110111	247	f7	11110111
56	38	00111000	120	78	01111000	184	b8	10111000	248	f8	11111000
57	39	00111001	121	79	01111001	185	b9	10111001	249	f9	11111001
58	3a	00111010	122	7a	01111010	186	ba	10111010	250	fa	11111010
59	3b	00111011	123	7b	01111011	187	bb	10111011	251	fb	11111011
60	3c	00111100	124	7c	01111100	188	bc	10111100	252	fc	11111100
61	3d	00111101	125	7d	01111101	189	bd	10111101	253	fd	11111101
62	3e	00111110	126	7e	01111110	190	be	10111110	254	fe	11111110
63	3f	00111111	127	7f	01111111	191	bf	10111111	255	ff	11111111

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