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r/homelab • 2 yr. ago  
Agreeable-Clue83

# Displaying CPU Temperature in Proxmox Summery in Real Time

Tutorial

## Note before we begin

Hi so before I begin this tutorial I want to say that this was made by another user on a Chinese site CSDN:

[Link to the Chinese website](#)

I've rewritten their guide in English and made some minor tweaks to make it look better as of version 7 and easier for new users. In addition, their code cant be directly copied of that site.

Here is an image of how it will look: [Final Result](#)

Edit: You may have to add more Cores in the code below, depending on how many cores your systems has. Always start with 0.

Ok lets get on with the tutorial!

1) Lets install lm-sensors to show us the information we need.  
Type the following in the proxmox shell

```
apt-get install lm-sensors
```

Next we can check if its working. To do this we can type `sensors`

The main part we are interested in is:

```
root@pve:~# sensors

coretemp-isa-0000
Adapter: ISA adapter
Package id 0:  +23.0°C  (high = +84.0°C, crit = +100.0°C)
Core 0:        +21.0°C  (high = +84.0°C, crit = +100.0°C)
Core 1:        +21.0°C  (high = +84.0°C, crit = +100.0°C)
Core 2:        +22.0°C  (high = +84.0°C, crit = +100.0°C)
Core 3:        +19.0°C  (high = +84.0°C, crit = +100.0°C)
```

If you see this you are good to go!

2) Adding the output of sensors to information





Next change the `bodyPadding: '5 15 5 15',` to `bodyPadding: '20 15 20 15',`

As well as `height: 300,` to `height: 360,`

**Dont close the file this time!**

## 4) Final part to edit

Ok so you know the drill by now press **F6** to search for `PVE Manager Version` and press **Enter**

You will see a section of code like this:

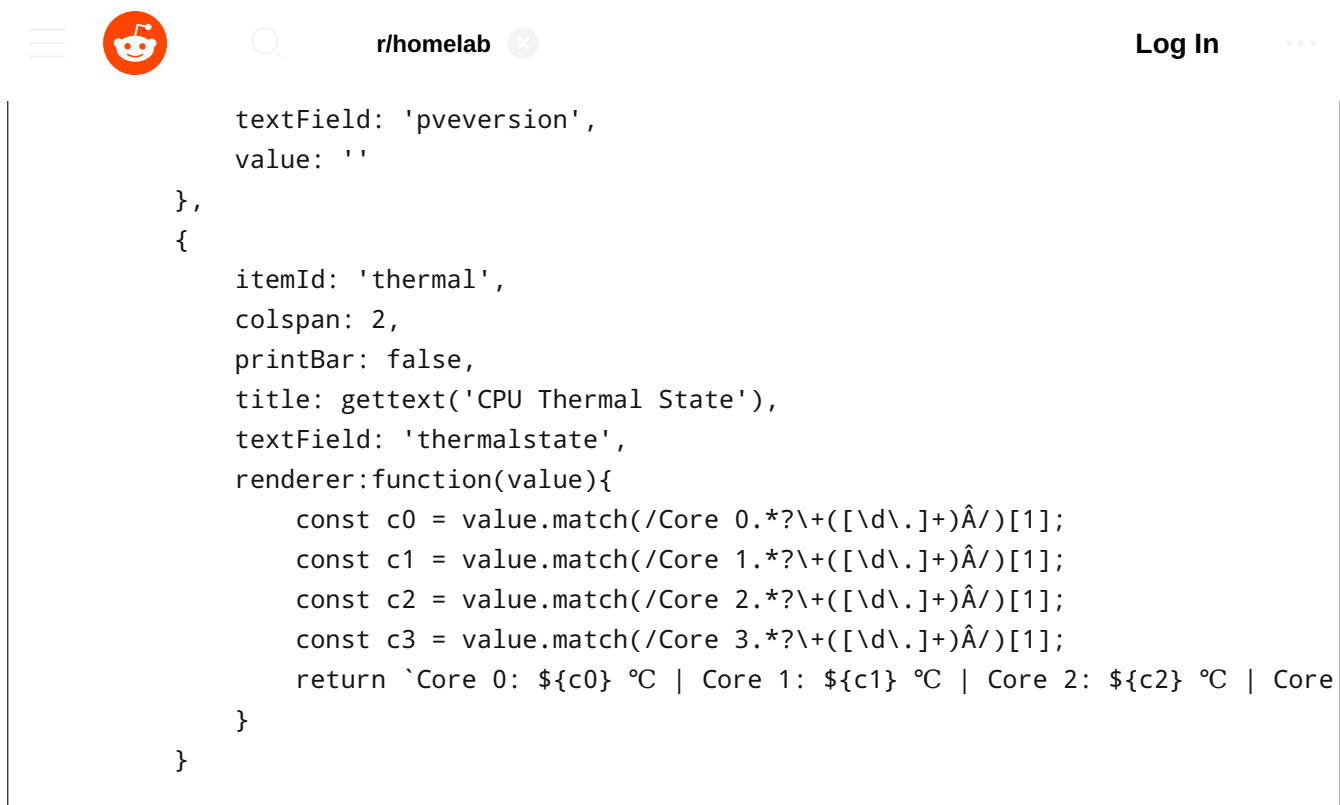
```
{
  itemId: 'version',
  colspan: 2,
  printBar: false,
  title: gettext('PVE Manager Version'),
  textField: 'pveversion',
  value: ''
}
```

Ok now we need to add some code after this part. The code is:

```
{
  itemId: 'thermal',
  colspan: 2,
  printBar: false,
  title: gettext('CPU Thermal State'),
  textField: 'thermalstate',
  renderer: function(value){
    const c0 = value.match(/Core 0.*?\+([\d\.]+)°/)[1];
    const c1 = value.match(/Core 1.*?\+([\d\.]+)°/)[1];
    const c2 = value.match(/Core 2.*?\+([\d\.]+)°/)[1];
    const c3 = value.match(/Core 3.*?\+([\d\.]+)°/)[1];
    return `Core 0: ${c0} °C | Core 1: ${c1} °C | Core 2: ${c2} °C | Core
  }
}
```

Therefore your final result should look something like this:

```
{
  itemId: 'version',
```



Now we can finally press **Ctrl+O** to save and **Ctrl+X** to exit.

## 4) Restart the summery page

To do this you will have to type in the following command: `systemctl restart pveproxy`

If you got kicked out of the shell or it froze, dont worry this is normal! As the final step, either refresh your webpage with **F5** or ideally close you browser and open proxmox again.

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**aimannorazman** • 2 yr. ago

I don't have a use for this, but I'd just like to say thank you.

18

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Im new to the server/home lab space and it was a bit of a pain to figure this stuff out myself. So I thought it might help someone in the future as I've seen a few dead end post asking about this.

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**raccoon\_sex\_dungeon** • 1 yr. ago • Edited 1 yr. ago

Necro-bump. I used a similar Chinese website to get mine running. It works really well, I just have to re-do it after every update and stumbled on this thread. I have found, I like to place `itemId: 'thermal'` beneath the CPU load. PROXMOX uses [Font Awesome](#) for it's icon pack so I've found that adding `iconCls: 'fa fa-fw fa-thermometer-half'` to the section works well and gives it a finished look.

Link to appearance: [HERE](#)

My code looks something like this:

```
{
  itemId: 'thermal',
  printBar: false,
  iconCls: 'fa fa-fw fa-thermometer-half',
  title: gettext('Package Temperature'),
  textField: 'thermalstate',
  renderer: function(value){
    const p0 = value.match(/Package id 0.*?\+([\d\.]+)?/)[1];
    const p1 = value.match(/Package id 1.*?\+([\d\.]+)?/)[1];
    return `${p0}, ${p1}`
  }
},
```

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**TB1961** • 2 yr. ago

Thanks for this post as it is just what I was looking for.

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**vinicius\_vbf** • 9 mo. ago • Edited 9 mo. ago

Here's a variant using the JSON format (better than extracting the values via regular expressions, IMO):

```
$res->{thermalstate} = `sensors -j`;
```

The '-j' argument makes `sensors` output in JSON format.



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```
renderer: function(value) {  
  let objValue = JSON.parse(value);  
  let core0 = objValue["coretemp-isa-0000"]["Core 0"]["temp2_input"];  
  let core1 = objValue["coretemp-isa-0000"]["Core 1"]["temp3_input"];  
  return `Core 0: ${core0}°C | Core 1: ${core1}°C`;  
}
```

Bonus: you can modprobe the `drivetemp` module and also get the HDD/SSD temperatures from the same output:

```
renderer: function(value) {  
  let objValue = JSON.parse(value);  
  return objValue["drivetemp-scsi-0-0"]["temp1"]["temp1_input"].toString() + "°C"  
}
```

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**algebraictype** • 9 mo. ago

Thanks for this! The JSON parsing is a great idea. I iterated on your approach a bit, moved the JSON parsing to the Perl API to match how the other status fields work. This also makes it easier to set both the current and max values for the temperatures which lets us use the bar visual. Also added the temperature probes to the mobile site as well.

You can see my results at <https://github.com/alexleigh/pve-mods>. Also added some instructions in case others want to go down a similar road.

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**Demuth\_** • 1 yr. ago • Edited 1 yr. ago

First off I am a total noob to this.. I followed this guide and got an infinite loading when restarting pveproxy, because I wasn't paying close enough attention I guess.

If you have the same issue make sure that this: `$res->{thermalstate} = `sensors``; actually uses the ``` symbol and **not** the `'` or ``` symbols as these will lead to infinite loading.

Thank you OP for the guide and thank you Racoon\_sex\_dungeon for the icon idea it looks great! <https://imgur.com/A9eg5NB>

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**NoFearNoBackup** • 2 yr. ago

This seems like it would be prone to breakage with every pve-manager update?

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I actually followed this on one of the Chinese sites as well and then came across this on the subreddit! Just came here to say that instead of changing the 'bodyPadding' and 'height' numbers, I actually just ended up changing this padding number a few rows up from the itemID: 'thermal' block:

```
{
  xtype: 'box',
  colspan: 2,
  padding: '0 0 10 0',
},
```

Changing the height of the box was breaking the stacking of some of the other modules on wider screens, so it was messing with my compulsion a bit.

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**RemarkableSteak** • 3 mo. ago • Edited 3 mo. ago

can someone give me a roll back command to SSH with once this borks the webui?

I am SSH'd in but not familiar enough with how to roll back and how far to roll back.

edit: googled a few things and found this apt that fixed it

apt install --reinstall pve-manager proxmox-widget-toolkit libjs-extjs

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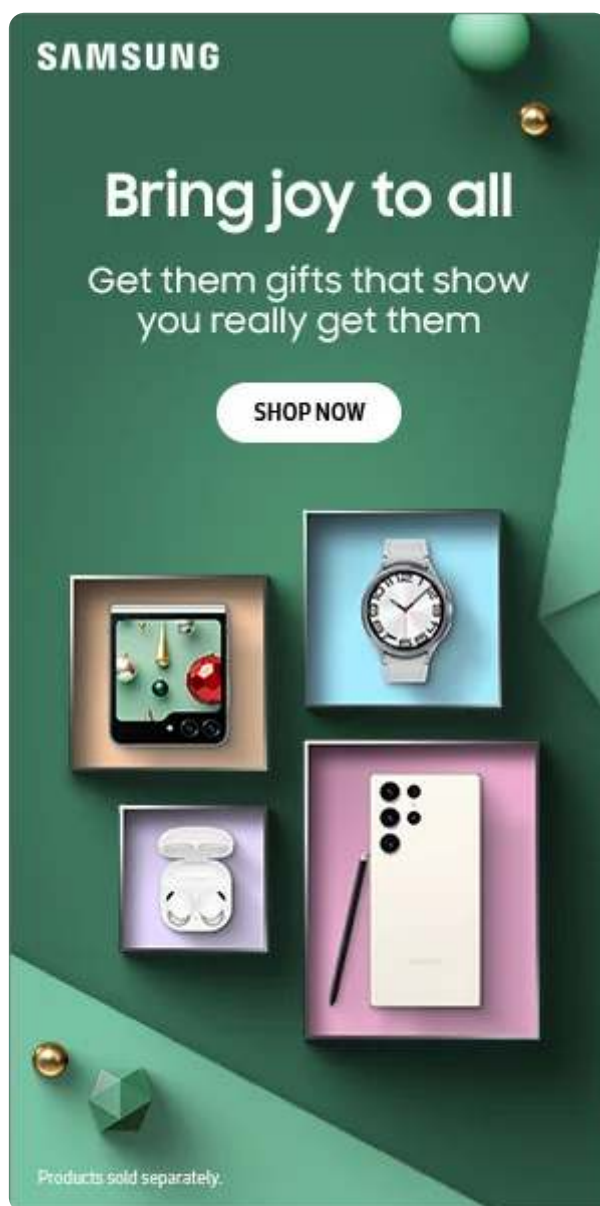


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