

NRPE PLUGIN FOR PRTG



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1. Introduction

This program will Add a custom NRPE plugin to your PRTG sensor list.

2. Prerequisite & Information

2.1. Equipment to monitor:

- Install NRPE plugin see the documentation below to walk you through this process "PRTG_Companion_install_Folder"\Nrpe Documentation\NRPE_Device_Monitoring_quick_guide.pdf
- Allow port number 5666 in the firewall of the equipment because it will be used by default by the NRPE plugin

2.2. PRTG Parameter:

- On the Equipment to add the sensor, be sure to add a credential (admin Windows or admin Linux Credential based on the OS of the equipment) to it. Credential can be added via the equipment setting by unchecking either "Credentials for windows system" if the equipment OS is a windows one or "Credential for Linux" if the equipment OS is Linux based
- The Sensor should inherit access right from the equipment but the "context security" should be set on the first value (see image on section 4.2 for the parameters)

3. Installation

To install the program double click the setup file PRTGCompanion_setup.exe and follow the on-screen instructions.

4. Usage and Configuration

To start monitoring your system using the NRPE plugin follow the instruction bellow:

4.1. Add the plugin as custom sensor:

- Go to your host name (the equipment where you want to add the nrpe sensor)
- Click on the Add Sensor button

11 Ping	Ajouter un capteur
🖻 Ӓ JerrysLinuxVM 🖾	
# Capteur perso	GeneralExeSen_ 4 Ajouter un Capteur
Imprimantes Ajouter un	équipement

- Select Custom Sensor on the sensor type list

O Disponibilité	O Utilisation CPU	O Paramètres du matériel	O Windows	O Stockage et serveur de fichier Services en cloue	
Bande passante/trafic	O Utilisation du disque	O Infrastructure du réseau	C Linux/macOS	Serveur de messagerie	
O Vitesse/Performance O Utilisation de la m		Capteurs personnalisés	O OS de virtualisation	O Base de données	
	Techno	ologie utilisée ?			
		Онттр	O PowerS	ihell	
		O SSH	O Récepto	eur de message Push	
	O WMI	O Packet S	iniffing O Cloud F		
	Oceant				





- Then click on the Script/EXE type at the bottom



4.2. Add parameters to the plugin

- Add the name of the sensor on the sensor name field of the sensor base parameters section
- On the Sensor Parameters:
 - Scirpt/EXE field: from the dropdown list select NrpePlugin.exe
 - Parameter field: Add the argument that is necessary for the plugin to gather the data
 - Args1 to argsN: the argument of the chech_nrpe like you are using it on your server example -H 192.168.200.105 -c pdm_cpuload
 - argsN+1: the Regex to get the data you want to be displayed in the PRTG channel. You can leave it with a space surrounded by double cote " " to let the plugin do an automatic parse (based on the NRPE v2.15 return value). A typic example of regex to use in this case is like this "(?<=load15=)[0-9.]+" where "load15=" is the text preceding the value we want to get
 - example of the sensor parameters:



- For more information and example on NRPE command line please see this documentation "PRTGCompanion_install_Folder"\NRPE Documentation\ NRPE_COMMAND_USAGE.pdf
- Value type Field: Choose Float as value type
- Channel name: Specify the name of the channel where the parsed data will be displayed
- Unit: the unit of the parsed value
- Leave the other parameter unchanged unless you want to do your own customization
- The sensor parameter should look like in the image below:

-		
ORSENNA		
NMS SERVICES		
Paramètres du capteur	-	
	Note: le fichier DEC doit être exécuté sur l'ordinateur sur lequel la sonde parente est installée, et non sur l'équipernent parent. Le répertoire de traveil des fichiers EXE est le répertoire de la sonde. Les fichiers vios, ps1 ou d'autres formats de scripts peuvent utiliser d'autres répertoires de traveil.	
Script/EXE 0	NrpePlugin.exe	~
Paramètres 🖲	"C\Users\PC_IGY\Documents\UGW\bin"-H 192.168.200.105-c check_load "(?<=[oad15=)[0.9.]+"	_
Environnement 🗇	Environnement par défaut	
	O Utilisez les paramètres fictifs comme variables d'environnement	
Contexte de sécurité 🕕	Utiliser le contexte de sécurité du service de la sonde PRTG Utiliser les données d'accès Windows des énuinements parents	Créer 🔁
Nom du muter 0	O comparing a construction a construction des	
Délai d'erniration (e) 🛈	40	-
Ture de unique 0		-
Type de valeur 🗸	Virgule flottante	
	O Compteur	
Nom du canal 🔍	Load	_
Chaîne d'unité 🕔	4	
Si la valeur change 🕕	Ignorer les changements	
	O Déclencher la notification 'Changement'	Définir un mot de passe sécurisé
Traitement du résultat 💿	Rejeter le résultat	Le compte d'utilisateur de radmin système de PRTG utilise le mot de défaut « prtgadmin ». Modifiez-le :

- Click the create button on the side to add the NRPE sensor plugin

4.3. NRPE Plugin in Action

After adding the NRPE sensor plugin you should be able to see it under the equipment hostname:

W capteur NrpeCpuLoad ^{P2} WARNING - load average: 0.02, 0.7	⁰ ★★★☆☆ 15, 0.17 load1=0.020;0.150;0.300;0; load	15=0.150;0.100;0.250;0; load1	5=0.170;0.050;0.200;0;						II 🔒 🖂 🗲 🕇
Vue d'ensemble	(*) Données en temps réel	2 Jours	30 Jours 365 Jours	🛎 Données historiques	📼 Log	🍄 Paramètres	A Déclencheurs de	notifications 🖓 Commentaires	1 Historique
Load	Temps d'exécution 218 ms	?						Find out why and how to buy PRTG! GET MORE INFORMATION Demière analyse:	17s 题
0,17 #	0 × ID 0	Dernière valeur 🌣		Minimum 🗘		Maximum 🌣		Demier OK: Demière erreur: Disponibilité: Temps mort: Couverture:	17 s 100,0000% 0,0000% 100%
Load	2	0,17 #		0,17 #		0,18 #	°°	Type de capteur:	Script/EXE
Temps d'exécution	1	218 ms		210 ms		218 ms	°	Dépendance:	Parent
Temps mort	-4						0 ₀	Intervalle: Autonomous: ID:	60 s Non #2765
Capteurs similain similitude	es	Canal -		Canal si -	milaire			1.00 0.00	éel, 2 heures 215.0 215.
M DAFCCI FD	არიულის გაძმია 6070- წ. 10-50 📕	uctuilEcation Asne 1.6 e						Le compet du Service du Serv	tilliasteur de l'administrateur TG utiliae le moi de passe par dmin ». Modifiezi-le pour sécuriser Web PRTG. ument obligatoire ai vous autorisez interface Web PRTG depuis rieur de votre pare-feu) 1 iot de passe par défaut

The top most screen (here in orange background) will show the result of the NRPE Command and also indicate the status of the sensor: Green OK, Orange Warning, Red Error

W capteur NrpeCpuLoad ^{P ###1/17} WARNING load average 0.27.0.22.0.10lload1=0.270.0.150.0.300-0.load5=0.220.0.100-0.250-0.load15=0.100-0.050-0.200-0

The Rest of the screen shows the channel where the parsed data is displayed in the form of a gauge and the execution time of the plugin.

NMS SERVICES	S ORSENNA.
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Load	Temps d'exécution 220 ms				
Canal - Load	© . ID ≑ 2	Dernière valeur 0,15 #	Minimum 🗢 0 #	Maximum ≑ 0,18 #	°°
Temps d'exécution Temps mort	-4	220 ms	185 ms	270 ms	°°, °
Capteurs similaires		Canal	Canal similaire		
		-			

5. NRPE By Example

Let's take an Example where we will monitor the CPU Load of a server whose IP Address is 192.168.200.165.

 ☐ ☐ Détection du réseau ⊕ ☐ Infrastructure du réseau II HTTP IVérifica W2 Sens
🗈 🛱 Windows
₽ 🛱 Clients
□ I Test2202 戸
II Ping II Ping + Add Sensor
🗆 🛱 Serveurs
DESKTOP-NI6KN75 Paused by dependency
!! Ping + Add Sensor
回 嘏 192.168.200.165 戸
Add Sensor Run Auto-Discovery Locate the device on the devices List
☐ Im Systèmes virtuels
□ 🛱 VMware
E F Hôtes VMware
EPUBLIC Paused by dependency
Ping + Add Sensor
Add Device
□ 🛱 Hyper-V
D 🔄 Hôtes Hyper-V
Add Device
□ 🛱 Machines virtuelles Hyper-V Add Device
🕀 🛱 Linux / macOS / Unix
田 ■ 192.168.200.13 □
II Espace WDisk Fr ✓ 26 Sen
E == 192.168.200.130 ⊨ Paused by dependency

Sonde locale		
🛛 📼 Équipement de la soi	de 🏳	
État de la sonde	V État du serveur V État du système II Espace disque V Common SaaS	Ping Qualcomm Ath V Ping Omean
	100 /8	0 maec
Detection du reseau		
Intrastructure du	II HTTP W2 Sens. ✓4 Sens.	
🗆 🖃 Windows		
🗆 🛱 Clients		
E Test2202	Device Context Menu + Add Sensor	
	2 Scan Now 1-	Right Click on it
E 🛱 Serveurs	Q Details 2- Go to Edit->Se	ettings to enter the credentials
🗄 📼 DESKTOP-I	III 🕼 Edit 🔰 🎤 Settings	
. Ping	Add Sensor Add Sensor	
F # 100 160 00	O Auto-Discovery Access Rights	
192.108.20	Create Device Template	
Addis	Recommend Now	
🗉 🛱 Systèmes virtuels	↓ ^A _Z Sort Alphabetically	
🗉 🛱 VMware	窗 Delete	
🗆 🛱 Hôtes VMv	ද්ර Clone	
😑 📟 REPUBL	IC XX Move >	
	Pii II Pause	
	Trority/Favorite	
🖾 🖦 Serveurs v	Historic Data	
	Device Tools	
🖻 🗃 Hyper-V	G Send Link by Empil	
🖻 🖾 Hôtes Hyp	Add Ticket	

Eait Object 192.168.200.165	×
Basic Device Settings	
Device Name 🔍	
192.168.200.165	
Status U	
 Started 	
O Paused 2-Scro	ll Down
IP Version 0	
● IPv4	
1-VérifyIP Address and take note of it	
IPv4 Address/DNS Name 🖤	
192.168.200.165	
Parent Tags 0	
Tags 0	
0	
Priority 🐨	
★★★☆☆	
Additional Device Information	
Device Icon 🕕	
Cancel	ок

Edit Object 192.168.200.165		×
O Auto-discovery with specific device templates		1
Location		
inherit from Escreeurs	(Location (for Geo Maps): <empty>)</empty>	
1- uncheck if its a windows and enter an	admin credential	
Credentials for Windows Systems		
inherit from 🛱 Serveurs (Domain or Computer Name: <empty>, U</empty>	Jser Name:)	- 1
Domain or Computer Name 🖲		
Jerrys-HP		
User Name 🔍		
PC_IGY		
Password 0		
Credentials for Linux/Solaris/macOS (SSH/WB	1- uncheck if linux and ent admin credential	ter
inherit from 🚍 Serveurs	(User Narie: <empty>, Authentication Method: 0,)</empty>	
Credentials for VMware/XenServer		
inherit from 🚍 Serveurs	(User Name: <empty>)</empty>	
Credentials for SNMP Devices	2-click	K OK
	Cancel	
⊢ 🛱 Détection du réseau		
🕀 🔄 Infrastructure du réseau		



> Add Sensor to Device 192.168.200.165 [192.168.200.165] Availability/Uptime OCPU Usage OHardware Parameters
> Bandwidth/Traffic O Disk Usage ONetwork Infrastructure
> Ospeed/Performance OMemory Usage Ocustom Sensors
> Windows
> Ostorage and File Server
> O Goud Ser
>
>
> O Linux/macOS
> Email Server
> Overlag
>
>
> O Virtualization OS
> O Database
> Overlag
> < Cancel sensor creation Search ${\bf Q}$ $\ \ \,$ Type to search for a name or description Matching Sensor Types 2- Choose Exe/script EXE/Script EXE/Script Advanced P IPFIX (Custom) **Business Process** ? ? Monitors several business process components and shows a summary status of the entire business process Runs an executable file, dynamic-link library file, or a script (batch file, VBScript, PowerShell) that returns XML or JSON uns an executable file, dynamic-link brary file, or a script (batch file, VBScript, 'owerShell) that returns a numerical Monitors a device using IPFIX (customizable) lue Needs .NET 4.7.2 on the probe system. The executable file or script file must be stored on the probe system. To perform calculations with values from othe sensors, use the Sensor Factory sensor instead. ds .NET 4.7.2 on the probe system. The utable file or script file must be stored on robe system. 0 0 0 0

Add Sensor to Device 192.168.200.165 [192.168	8.200.165]					(Step 2 of 2)
< Cancel							
Basic Sensor Settings	Sensor Name 🔍	NrpeCpuLoad 1	- Enter A Name f	or the sensor			
	Parent Tags 🔍						
	Tags 0	exesensor X					
	Priority ⁽¹⁾	***					
Sensor Settings		-				L	Create 🖹
		Note: The EXE file has to run o the probe directoryvbs files, .	n the computer where the parent ps1 files, or other script files may	probe is installed, not on the parent device. The working use different working directories.	directory for EXE files is		6- click create
	EXE/Script	NrpePlugin.exe	2- Cho	oose NrpePlugin.exe from th	ne list v		
	Parameters O	-H 192.168.200.165 -c pdm_cpuloa	d ^{**} 2 Entor	NDDE Commondling			
	Environment O	Default environment	here - H 192.168	3.200.165 -c pdm_cpuload	« »		
		O Set placeholders as environme	nt values				
	Security Context 🔍	Use Windows credentials of pa	robe service rent device				
	Mutex Name 🔍						
	Timeout (Sec.) 🔍	60					
	Value Type 🌣	Integer	4- Cho	ose Float			
		Counter	4 Cho	03611001			
	Channel Name 💿	CpuLoad	5- Chr	oso A namo for the channe	and a Unit		
	Unit String 🔍	6-0 0	5º Cho				
	If Value Changes 🔍	 Ignore changes Trigger 'change' notification 					
	Result Handling	Discard result					
		O Store result O Store result in case of error					
間 192.168.200.165 (Scanning Interval: 60 seconds, Set sensor to)							
Device 192 168 200 165 P ***☆	ĩ						
Device 192.108.200.105							
Overview 2 days	30 days	365 days	A Alarms	System Information	E Log	Settings	Notification T
_							
To see sensor gauges here, please char	ge the priority of one or more s	ensors to ★★★★☆ /★1	httt:				
							0
Pos 👻 Sensor ≑		Status 🗢	Message		Graph	Priority ≑	
		Unknown	No data yet			素素素合合	

<< < 1 to 1 of 1 > >>

Wait for the sensor to gather data



Overview	(•) Live Data	2 days	30 days	365 days	🛤 Historic Data	🖃 Log	Settings	🖡 Noti
CpuLoad	Execution Time							
	5783 mac							
21 %	0.1	Last Veloc A			10-1		Mariana A	
	÷ UI	Last value V			Minimum •		Maximum +	_
Срасова	2	21%			21.6		21/6	
Downtime	-4							-
Execution Time	1	5 783 msec			5 783 msec		5 783 msec	<u>,0</u>
Similar Sensors								
Similarity		Channel			Similar Channel			
		-						