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1. INTRODUCIÓN

Cacti es un sistema de monitorización con el que podemos tener controlados casi en tiempo real los dispositivos que soportan los servicios que presta nuestra red (routers, conmutadores ó servidores, tráfico de interfaces, cargas, cpu, temperaturas, etc.). Es un potente software que nos permite controlar en todo momento el estado de nuestra red.

Este sistema de monitorización contiene un recolector de datos excelente, un sistema avanzado de creación de plantillas y gráficos y una completa interfaz de gestión de usuarios.

La aplicación está construida en php, y utiliza MySql para el almacenamiento de información sobre los gráficos y datos recogidos. El protocolo utilizado para la comunicación con los distintos equipos es SNMP, el cual facilita el intercambio de información de administración entre dispositivos de red y permite a los administradores supervisar el uso de la red, buscar y resolver sus problemas, y planificar su crecimiento.

2. VISUALIZACIÓN/CREACIÓN DE MÁQUINAS Y GRÁFICAS

Una de las partes más útiles de la herramienta Cacti es la monitorización a través de gráficas. Pero antes de poder crearlas, necesitamos definir qué dispositivos de nuestra red vamos a gestionar.

Nos conectamos al servidor Cacti y nos registramos. Actualmente hay definidos dos usuarios con diferentes permisos: "admin" y "guest". Para realizar muchas de las tareas aquí descritas será necesario registrarse con el usuario "admin":

F L L L	lease enter your Cacti user name and password below: Iser Name: assword: Login	Nombre de usuario: admin Contraseña: XXX
	Login	

http://IP CACTI/index.php

Ilustración 1. Pantalla de inicio de sesión

Al introducir el usuario y contraseña facilitados, accedemos a la pantalla principal de Cacti, desde la cual podemos ver todos los contenidos de la aplicación de gestión de dispositivos de red.

console gra	phs monitor syslogs weathermap	
Console		Logged in as admin (Logout)
Create	You are now logged into Carti. You can follow these basic steps to get started.	Version 0.8.7c
New Graphs		
Management	Create devices for network Create graphs for your new devices	
Graph Management	View your new graphs	
Graph Trees		
Data Sources		
Devices	-	
Thresholds		
Weathermaps	-	
Collection Methods		
Data Queries		
Data Input Methods	-	
Templates		
Graph Templates		
Host Templates	-	
Data Templates		
Threshold Templates		
Import/Export		
Import Templates	-	
Export Templates		
Configuration		
Settings		
Plugin Management		
WMI Settings		
Utilities		
System Utilities		
User Management		
Router Configs		
Network Tools		
Updates		
Host Info		
Logout User		

Ilustración 2. Pantalla principal de Cacti

En los siguientes apartados se explicará con detalle cada una de estas secciones.

2.1 MÁQUINAS

2.1.1 VISUALIZACIÓN

Para ver los elementos pertenecientes a nuestra red vamos a la pestaña Console \rightarrow Management \rightarrow Devices y nos aparecerá una pantalla como esta:

Console -> Devices	- 12									Log	gged in as admin
Create	Devices										
New Graphs	Type: Any	Stat	usi Any	Search:			Rows per Page: 30	y go	clear		
Graph Management	<< Previous				s	howing Row	s 1 to 8 of 8 [1]				
Data Sources	Description**	ID	Graphs	Data Sources	Status	Event Coun	nt Hostname	Curren	t (ms)	Average (ms)	Availability
Devices	Controlador_inalambrico	6	2	2	Up	0	10.20.97.6	1.36		0.94	91.32
Thresholds	Core_CPD	2	27	64	Up	0	10.10.80.200	1.36		1.9	99.93
Weathermaps	Firewall	5	0	0	Up	0	10,10,10,1	0.84		1.1	99.93
Collection Methods	Localhost	1	6	7	Up	0	XXXX	0.05		0.16	100
Data Queries	Pila aulas	4	15	30	Lin	0	10,10,80,201	15.89		4.3	99.94
Data Input Methods Templates	Pila_secretaria	3	14	15	Up	0	10.10.80.202	7.38		4.26	99.94
Graph Templates	Router_Principal	7	2	10	Up	0	10.110.128.2	1.59		1.92	99.94
Host Templates	Router_Respaldo	8	2	7	Up	0	10.110.128.3	1.09		0.96	99.94
Data Templates	<< Previous				9	howing Row	s 1 to 8 of 8 [1]				
Threshold Templates Import/Export Import Templates	L.							Choose an a	ction: Del	ete	

Ilustración 3. Elementos pertenecientes a nuestra red

Para ver los detalles (IP, community, descripción, etc.) bastará con pinchar en la máquina correspondiente.

2.1.2 NUEVOS DISPOSITIVOS

Si en un futuro se agrega algún equipo nuevo a la red habrá que pinchar en "Add" y nos aparecerá una pantalla como esta, donde están marcados los parámetros más importantes:

console gra	phs monitor syslogs weathermap			
Console -> Devices -> (Edit)		Logged in as admin (Logout)	
Create	Devices [new]			
New Graphs	General Host Options			
Management	Give this host a meaningful description.		* Nombre del e	auipo
Graph Trees	Hostname			1F -
Data Sources	Fully qualified hostname or IP address for this device.		* IP	
Devices	 Host Template Choose what type of host, host template this is. The host template vill govern what kinds of dat 	None	* Generic SNM	P-enabled Host aunque se
Thresholds	should be gathered from this type of host.			ii enabled Host adiique se
Weathermaps	Disable Host	Disable Host	pueden asociar	plantillas específicas del
Collection Methods	Monitor Most		aquino	1 1
Data Queries	Check this box to monitor this host on the Monitor Tab.	Monitor Host	equipo	
Data Input Methods				
Templates	Down Host Message			
Graph Templates	This is the message that will be displayed when this host is reported as down.			
Host Templates				
Data Templates	Availability/Reachability Options			
Threshold Templates	Downed Device Detection			
Import/Export	The method Cacti vill use to determine if a host is available for polling.	SNMP V	* CND (D / DD)	C
Export Templates	Ping Timeout Value		* SNMP o PIN	G
Configuration	The timeout value to use for host ICMP and UDP pinging. This host SNMP timeout value applies	400		
Settings	Ping Retry Count			
Plugin Management	The number of times Cacti vill attempt to ping a host before failing.	1		
WMI Settings	SNMP Options		* Varsión dal n	rotocolo
Utilities	SNMP Version	Version 1	version del p	10100010
System Utilities	SNMB Community		* COMMUNIT	Y para tener acceso al
User Management	SNMP read community for this device.	public		- F
Router Configs	SNMP Port	161	equipo	
Network Tools	Enter the UDP port number to use for SNMP (default is 161).			
Updates	The maximum number of milliseconds Cacti will wait for an SNMP response (does not work with	500		
Host Info	php-snmp support).			
Logout User	Maximum OID's Per Get Request Specified the pumber of OID's that can be obtained in a single SNMP Get request	10		
	Additional Options			
	Notes			
	Enter notes to this host.			
	WMI Account Options		The second s	
	WMI Authenication Account	None w		
	Choose an account to use when Authenticating via WMI			
				_
			cancel create	* Course of diam. ""
				" Crear el dispositivo

Ilustración 4. Añadir nuevos dispositivos

Será en ese momento en el que se nos agregará dicho equipo a la lista inicial que vemos al pinchar en "Devices", como se ha comentado en el apartado anterior.

2.2 GRÁFICAS:

2.2.1 VISUALIZACIÓN:

Como comentamos en la Introducción, Cacti nos permite visualizar gráficas asociadas a cada equipo. Consideramos que las más importantes para monitorizar la red son las siguientes:

- Tráfico de Red
- Uso de la CPU
- Uso de la memoria
- Temperatura

Para visualizar las gráficas asociadas a los equipos que componen la red nos vamos a la pestaña "graphs" y nos encontramos con un árbol desplegable con una rama por cada equipo (o host). Pinchando encima visualizamos las gráficas correspondientes.



Ilustración 5. Visualización de las gráficas asociadas a cada equipo

A través del menú lateral izquierdo podemos navegar por el árbol de dispositivos, y podremos consultar todas las gráficas definidas para ellos.

Si pinchamos alguna de las gráficas obtendremos la representación de los valores en la última hora, el último día, semana, mes y año. En el caso del tráfico de red, obtendríamos algo como esto:



Ilustración 6. Visualización de las gráficas asociadas a cada equipo

2.2.2 NUEVAS GRÁFICAS

Para crear nuevos gráficos asociados a nuestros equipos se procede de la siguiente manera: pinchamos en la pestaña Console \rightarrow Create \rightarrow New Graphs y elegimos en el desplegable de "Host" qué equipo queremos elegir:

onsole -> Create Nev G	iraphs								Logged in as admin ((Logou
	10000			28		0.0000				
en Granhs	Pila_	secret	aria (10.10.80.202	.) Generi	c SNMP-enab	led Host				
anagement					1000			*Edit this Host		
aph Management	Host:	Pilo_s	ecretoria (10.10.80.202)	Graph Types:	All	*		Create New Host	19	
aph Trees	-	Contro	ilador_inalambrico (10.20.97 CPD (10.10.80.200)	.6)			AL	ito-create threshold	IS	
ta Sources	Graph	T Firewa	all (10.10.10.1)							
vices	Graph T	Locali	iost (127.0.0.1)							1
athermaps	Create:	Pilo_0	ules (10.10.80.201) ectedere (10.10.80.202)							
llection Methods	Creater	Boute	_Principal (10.110.128.2)							
ta Queries		Route	(_Respaldo (10.110.128.3)							
ita Input Methods	Create:	(Select a	s graph (ype to create) 🛛	2443						
mplates	Data C	uerv (St	WMP - Interface Statistics							
ost Templates	<< Pre	evious			Showing Re	ows 1 to 30 of 224 [1,2,	3,4,5,6,7,8]		Ne	ext >
ata Templates	Index	Status	Description	Name (IF-MIB)	Alias (IF-MIB)	Туре	Speed	Hardware Address	IP Address	T
hreshold Templates	1	Up	Viani	VII		prop/virtual(53)	1000000000	00:88:8E:8F:77:00:C8	10,10,80,282	
nport/Export	99	Up	Vlan99	viaa		propVirtual(53)	1000000000	00:88:8E:8F:77:00:C1	10.20.99.202	E
nport Templates	8197	Um	Shade David 1	Stack Deat1		erre)((#2)				E
onfiguration	54.57	OP.	academotica	OCOLAPONIA		proportidat(33)				
ettings	5138	Up	StackSub-St1-1	StackSub-St1-1		propVirtual(53)	0			-
lugin Management	5139	Down	StackSub-St1-2	StackSub-St1-2		propVirtual(53)	0			1
/MI Settings	5140	Up	StackPort2	StackPort2		propVirtual(53)	0			E
vstem Utilities	5141	Up	StackSub-St2-1	StackSub-St2-1		propVirtual(53)	0			E
ser Management	5142	Up	StackSub-St2-2	StackSub-St2-2		propvirtual(53)	0			E
outer Configs	5143	Up	StackPort3	StackPort3		propVirtual(53)	0			E
Ipdates	5144	Doxn	StackSub-St3-1	StackSub-St3-1		propVirtual(53)	0			E
lost Info	5145	Up	stacksub-st3-2	StackSub-St3-2		propVirtual(53)	0			E
ogout User	5146	Up	StackPort4	StackPort4		propVirtual(53)	0			E
	5147	Up	StackSub-St4-1	StackSub-St4-1		prop/Virtual(53)	0			E
	5148	Up	StackSub-St4-2	StackSub-St4-2		propVirtual(53)	0			E
	10301	Up	GigabitEthemet1/0/1	G(1/0/1	AP plants	ethemetCsmacd(6)	1000000000	00:44:E4:D9:48:48:81		
	10102	Up	GigabitEthemet1/0/2	Gi1/0/2	AP planta	ethemetCsmacd(6)	1000000000	00:44(E4)D9)48(48(82		
	10103	Up:	GigabitEthemet1/0/3	Gi1/0/3	AP planta	sthumstCimard(6)	1000000000	00:44:64:09:48:48:83		
	10104	Up	GigabitEthemet1/0/4	Gi1/0/4	AP plants	ethemetCsmacd(6)	1000000000	00:44:64:09:48:48:64		
	10105	Down	GigabitEthemet1/0/5	GI1/0/5	AP planta	ethemetCsmacd(6)	10000000	00:44:E4:D9:48:48:85		E
	10106	Down	GigabitEthemet1/0/6	Gi1/0/6	AP planta	ethemetCsmacd(6)	10000000	00:44:E4:D9:48:48:86		E
	10107	Dexn	GigabitEthemet1/0/7	Gi1/0/7	AP planta	ethemetCsmacd(6)	10000000	00:44:E4:D9:48:48:87		1
	10100	Down	GigabitEthemet1/0/8	Gi1/0/0	AP planta	ethemetCsmacd(6)	10000000	00:44:64:09:48:48:88		[
	10109	Up	GigabitEthemet1/0/9	Gi1/0/9	Usuario20	ethernetCsmacd(6)	100000000	00:44:E4:D9:48:48:89		E
	10110	Down	GigabitEthemet1/0/10	Gi1/0/10	Usuario20	ethemetCsmacd(6)	10000000	00:44:E4:D9:48:48:8A		I
	10111	Down	GigabitEthemet1/0/11	Gi1/0/11	Usuario20	ethemetCsmacd(6)	10000000	00:44:E4:D9:48:48:88		1
	10112	Doxn	GigabitEthemet1/0/12	Gi1/0/12	Usuario20	ethemetCsmard(6)	10000000	00:44:E4:D9:48:48:8C		ſ
		and the second s								

Ilustración 7. Creación de nuevos gráficos asociados a los equipos

Saldrá una lista con las gráficas disponibles para ese dispositivo. Hay que tener en cuenta que dependiendo de la marca y modelo del dispositivo, se podrán monitorizar unos elementos u otros. Marcamos la casilla de la derecha de las gráficas que queramos añadir. El proceso finaliza pinchando en Create:

rt Methods	Create:	(Select a	graph type to create) 🔛						
s mplates	Data Q	uery (SN	MP - [nterface Statistics]		28 V.	Internet Made of the	N 10 1004 NR		
plates	<< Pre	vious			Showing Ro	ws 1 to 30 of 224 [1,2,3	8,4,5,6,7,8]		N
plates	Index	Status	Description	Name (IF-MIB)	Alias (IF-MIB)	Туре	Speed	Hardware Address	IP Address
Templates	3.	Up	Viani	VII		propVirtual(53)	1000000000	0018818E18F1771001C0	10.10.90.202
mplates	99	Up	Vlan99	v199		propVirtual(53)	1000000000	00:88:8E:8F:77:00:C1	10.20.99.202
mplates	5137	Up	StackPort1	StackPort1		propVirtual(53)	o		
tion	5138	Up	StackSub-Stl-1	StackSub-St1-1		prop/litual(53)	0		
nagement	5139	Down	StackSub-St1-2	StackSub-St1-2		propVirtual(53)	0		
ngs	5140	Up	StackPort2	StackPort2		propVirtual(53)	0		
Nilbla z	5141	Up	StackSub-St2-1	StackSub-St2-1		propVirtual(53)	0		
agement	5142	Up	StackSub-St2-2	StackSub-St2-2		propVirtual(53)	0		
nfiga	5143	Up	StackPort3	StackPort3		propVirtual(53)	0		
slo	5144	Down	StackSub-St3-1	StackSub-St3-1		propVirtual(53)	0		
	5145	Un	StackSub-St3-2	Stark Sub-St3-2		prop/(irtual(53)	0		
er	5146	Un .	StackPort4	Stack Post4		prop/(ittual(53)			
	5147	Up	StackSub-Std-1	Stack Sub-Std-1		prop)6rtual(53)	0		
	6140	Ue	Stackoup-ote-1	Stackoub-Str-1		proportual(53)	•		
	5140	op	Stackoup-ote-2	SCREEK SUD-Sterz	-	proportidati(55)	•		
	10101	up.	Gigabittithemet1/0/1	011/0/1	AP planta	ethemetCsmato(6)	7000000000	00:44:04:09:40:40:03	
	10102	Up	GigabitEthemet1/0/2	611/0/2	AP planta	ethemetCsmacd(6)	1000000000	00:44164109:48148182	
	10103	Up	GigabitEthemet1/0/3	Gi1/0/3	AP planta	ethemetCsmacd(6)	1000000000	00:44:E4:D9:48:48:83	
	1010+	Up	GigabitEthemet1/0/4	G)1/0/4	AP planta	ethematCzmacd(6)	1000000000	D0:44:84:D9:48:48:84	
	10105	Down	GigabitEthemet1/0/5	Gi1/0/5	AP planta	ethemetCsmacd(6)	10000000	00:44:64:09:48:48:85	
	10106	Down	GigabitEthernet1/0/6	Gi1/0/6	AP planta	ethemetCsmacd(6)	10000000	00:44:64:09:48:48:86	
	10107	Down	GigabitEthemet1/0/7	Gi1/0/7	AP planta	ethemetCsmacd(6)	10000000	00:44:E4:D9:48:48:87	
	10108	Down	GigabitEthemet1/0/8	Gi1/0/8	AP planta	ethemetCsmacd(6)	10000000	80:44:64:09:48:48:88	
	10109	Up	GigabitEthemet1/0/9	Gi1/0/9	Usuario20	ethemetCsmacd(6)	100000000	00:44:84:D9:48:48:89	
	10110	Down	GigabitEthemet1/0/10	Gi1/0/10	Usuario20	ethemetCsmacd(6)	10000000	001441E41D914814818A	
	10111	Down	GigabitEthemet1/0/11	Gi1/0/11	Usuario20	ethemetCsmacd(6)	10008000	00:44:E4:D9:48:48:88	
	10112	Down	GigabitEthemet1/0/12	Gi1/0/12	Usuario20	ethemetCsmacd(6)	10008000	80:44:84:D9:48:48:8C	
	10113	Up	GigabitEthemet1/0/13	Gi1/0/13	Usuario20	ethemetCsmacd(6)	1000000000	00:44:E4:D9:48:48:8D	
	10114	Up	GigabitEthemet1/0/14	Gi1/0/14	Usuario20	ethemetCsmacd(6)	100000000	00144164109148148186	
	10115	Down	GigabitEthemet1/0/15	Gi1/0/15	Usuario20	ethemetCsmacd(6)	10000000	00:44:64:D9:48:48:8F	
	10116	Down	GigabitEthemet1/0/16	Gi1/0/16	Usuario20	ethemetCsmacd(6)	10000000	80:44:E4:D9:48:48:90	
	<< Pre	vious		0.000.000	Showing Ro	ws 1 to 30 of 224 [1.2.3	3,4,5,6,7,8]		N
	4						0.1	and a graph funan linio a Ra-	
							Sev	ice a graph type: In/Out Bits	

Ilustración 8. Creación de gráficos asociados a los equipos

Si necesitamos modificar algún valor de la gráfica como puede ser el título, nos vamos a "Console \rightarrow Management \rightarrow Graph Management" y aparecerá incluida en la lista.

> Graph Mana	gement			Logged in as admin	(Logou
	Graph Management				Add
aha	Host: Any	V 90 clear			
nent	Auch David				
inagement	Kons per vaget 30				
1	<< Previous 5	howing Rows 1 to 30 of 68 [1.2	3]	N	lext >
NT Presets	Graph Title**	ID	Template Name	Size	ſ
	Controlador inalambrico - Trafico Core - GinabitEthernet 8/8/1	202	Interface - Traffic (hits(sec)	120×500	
arces	Controlador inalamhrico - Trafico Com - GinabitEthernat 9/9/3	201	Interface - Traffic (hits/sec)	120×500	Ē
	form (PD - API-arm)	162	Interface - Traffic (hits/sec)	120×500	Ē
ds	Come CBD - 4810 arms	170	Interface - Traffic (hits/sec)	120×500	Ē
maps	Come_CPD - AP11-smill	170	Interface - Traffic (bits/sec)	120,500	
an as chosen		172	Taka da an Talifa (hita da a)	120,500	-
ut Methods	CORE_CPD - AP12-am1	1/2	Interface - Traffic (bits/sec)	120x500	
-	COPE_CPU - AP13-am1	1/3	Interface - Hamic (bits/sec)	120×500	-
mplates	Core_CPD - AP14-am1	174	Interface - Traffic (bits/xec)	120×500	-
aplates	Core_CPD - AP2-arm1	163	Interface - Traffic (bits/sec)	120x500	-
hplates	Core_CPD - AP3-arm1	164	Interface - Traffic (bits/sec)	120×500	
d Templates	Core_CPD - AP4-am1	165	Interface - Traffic (bits/sec)	120×500	L
Export	Core_CPD - APS-arm1	166	Interface - Traffic (bits/sec)	120×500	L
amplates	Core_CPD - AP6-arm1	167	Interface - Traffic (bits/sec)	120×500	L
ation	Core_CPD - AP7-arm1	168	Interface - Traffic (bits/sec)	120×500	E
and show the second	Core_CPD - AP8-arm1	161	Interface - Traffic (bits/sec)	120×500	E
anagement	Core_CPD - AP9-am1	169	Interface - Traffic (bits/sec)	120×500	E
δings	Core_CPD - ono	200	Interface - Traffic (bits/sec)	120×500	E
	Core_CPD - Temperatura	22	3 Cisco - Temperature	120×500	E
Hilities	Core_CPD - Traffic - Gi10/36	178	Interface - Traffic (bits/sec)	120×500	E
ragement	Core_CPD - Traffic - G89/28	213	Interface - Traffic (bits/sec)	120×500	C
Tools	Core_CPD - Traffic - G89/35	177	Interface - Traffic (bits/sec)	120×500	E
iours.	Core_CPD - Trafico Aulas Principal	136	Interface - Traffic (bits/sec)	120×500	E
5	Core_EPD - Trafico Aulas Respaldo	139	Interface - Traffic (bits/sec)	120×500	E
lser	Core_CPD - Trafico Controlador Inalambrico	126	Interface - Traffic (bits/sec)	120×500	E
	Core_CPD - Trafico Po 17	143	Interface - Traffic (bits/sec)	120×500	E
	Core_CPD - Trafico Po18	144	Interface - Traffic (bits/sec)	120×500	Ē
	Core CPD - Trafico Secretaria Principal	138	Interface - Traffic (bits/sec)	120×500	Ē
	Core CPD - Trafico Secretaria Respaldo	142	Interface - Traffic (bits/sec)	120×500	F
	Core_CPD - Uso de la Memoria	21	2 Cisco - Memory Usage	120×500	F
	Local - Poller Statistics	16	Local - Poller Statistics	120x540	Ē
	<< Provinus	howing Rows 1 to 30 of 69 Ft 3	21	N	ext >

Ilustración 9. Modificación de valores en gráficas

Podemos tener una lista con todas las gráficas juntas ("Any") o por equipo haciendo uso del desplegable "Host".

Pinchando en la gráfica de interés la podemos visualizar y modificar:

Enero de 2012



Ilustración 10. Gráficas por equipo

Estas gráficas se incluyen automáticamente en la rama correspondiente del árbol de gráficas al cual podemos acceder haciendo uso del menú lateral izquierdo como se explica a continuación.

VISUALIZACIÓN DEL ARBOL Y MODIFICACIÓN DE RAMAS 3.

En Cacti, la manera de organizar las gráficas es a través de árboles. Cada árbol a su vez puede tener ramas, que pueden ser o bien "hosts" o bien una "gráfica". Si elegimos un host, todas sus gráficas asociadas colgarán de esa rama. Sin embargo, al elegir una gráfica sólo se mostrará ella misma. Si tenemos un host con muchas gráficas, es preferible crear siempre ramas de "hosts". Podemos crear tantos árboles como ramas sean necesarias para conseguir tener la organización que nos convenga.

Si hemos creado una nueva máquina y le hemos asociado gráficas, lo podremos incluir en cualquiera de los árboles como una nueva rama. Para ello, nos vamos a "Console \rightarrow Management → Graph Trees" y podremos visualizar los árboles existentes. En la configuración inicial de la sede de trabajo, se han creado dos ramas: una de servidores, que contiene gráficas del propio servidor web, y otra de electrónica de red, con gráficas de los dispositivos.

Sin pinchamos en "Electrónica de red", aparece una lista con las actuales ramas.

Enero de 2012

console grap	hs thold monitor discover syslogs mactrack weathermap	reports		
Console -> Graph Trees	-> (Edit)	and a second sec		Logged in as sportero (Logout)
Participant in the second s				
New Octobe	Graph Trees Leat: Electronica de redj	12		
New Graphs	A useful name for this graph tree.	Electronica de red		
Graph Management	Serting Type	Alphabatic Ordering	v	
Graph Trees	Choose how items in this tree will be sorted.	Aphabeac ordening	653	
Data Sources	Tenn Bowe			odd
Devices	Tree Items			A00
Thresholds	++			
Weathermaps	Item		Value	
Report Configurations	Hosti Controlador_inalambrico (16.20.97.6) (Edit host)		Host	×
Device Tracking	Host: Core_CPD (10.10.80.200) (Edit host)		Host	*
Management	Host: Pila_sular (10.10.80.201) (Edit host)		Host	*
Sites	Host: Pila_secretaria (10.10.80.202) (Edit hest)		Host	×
Devices	Host: Router_Principal (10.110.128.2) (Edit hest)		Host	×
Vevice Types	Noet: Router_Respaido (10.110.128.3) (Edit host)		Host	×
Tracking Utilities				
Tracking Tools				cancel save
Mar Watch				
Mac Authorizations				
Collection Nethods				
Data Queriez				
Data Input Methods				
Templates				
Graph Templates				
Host Templates				
Data Templates				
Threshold Templates				
Discovery Templates				
Report Templates				
Import/Export				
Import Templates				
Export Templates				
Configuration				
Settings Diverse Management				
Plugin Management				
Utilities				
Surbary Utilities				
User Management				
Router Configs				
Network Tools				
Updates				
Host Info				
Logout User				

Ilustración 11. Visualización de las ramas actuales

Si queremos agregar una más, por ejemplo si hemos creado un dispositivo nuevo, pinchamos en Add y rellenamos el formulario. En "Tree Item Type" elegimos "Host" y debajo el host (ó máquina) en cuestión. Finalizamos el proceso pinchando en Create.

Podremos comprobar que se ha incluido en el árbol correspondiente pinchando en la pestaña superior "graphs" y navegando por las ramas.

4. ALERTAS

Como comentamos en la introducción, Cacti nos da la opción de enviar alertas a nuestra cuenta de correo en caso de que ocurra alguna irregularidad en nuestros equipos. Nos vamos a la pestaña Console \rightarrow Configuration \rightarrow Settings y pinchamos en la pestaña Alerting/Thold.

^

ANEAU II GUIA KAPIDA DE CACII	ANEXO 2	1: (GUÍA	RÁP	IDA	DE	CACT	I
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International Control Provide South Sout	resholds	Cacti base URL						
An Construction of Construction of all Tranship face that your systeg messages will be sent as: Warning ♥ Construction of Co	athermaps	Systegging These messages will be sent to your local syslog. If you yould like these sent to a remote box, you must setup your local syslog to do so	🗹 Systogging					
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I sethids there	gin Management	Send alerts as text						
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		From Name	Alerta CACTI					

Ilustración 12.Configuración de alertas

Aquí podemos configurar las opciones de alerta tales como el mensaje que queremos que nos llegue, desde qué cuenta, con qué asunto, etc. La configuración del servidor de correo por ejemplo se hace desde la pestaña "Mail/DNS" a la derecha de la pestaña presente. Si además hemos marcado la opción "Dead Hosts Notifications" en la pestaña anterior, recibiremos en la cuenta configurada un correo electrónico cada vez que se pierda la conectividad con un dispositivo.

console grap	ihs monitor syslogs weathermap						
Console -> Cacti Settings						Logged in	as admin (Logout
Ereste	General Paths Poller Granh Export Visual Authentication	Alerting/Thold	Boost	Mise	Mail / DNS	Device Tracking	Reports
New Graphs	Carti Fettings (Mall / DNF)						
Management	Cach Security (nam / Divs/						and a stress store of
Graph Management	Enabling Options	-					and a rest chian
Graph Trees	This is a email account used for sending a test message to ensure everything is working properly.						
Data Sources	Mail Services	SUTP	~				
Devices	Which mail service to use in order to send mail	OMITE	100				
Thresholds	From Email Address This is the email address that the email vill appear from.						
Weathermaps Collection Methods	From Name This is the actual name that the email will appear from.						
Data Queries	Word Wrap	Line :					
Data Input Methods	This is how many characters will be allowed before a line in the email is automatically vord wranned. (0 = Disabled)	120					
Templates	Sendmail Ontions						
Graph Templates			- 1				
Host Templates	Sendmail Path This is the path to sendmail on your server. (Only used if Sendmail is selected as the Mail Service)	/usr/sbin/sendm	an				
Data Templates		[OKI FILE FOUND]					
Threshold Templates	CHIP Uptions	6					
Import/Export	This is the hostname/IP of the SMTP Server you will send the email to.	1					
Import Templates	SHTP Port	25					
Export Templates	This is the port on the SMTP Server that SMTP uses.						
Configuration	SMTP Username This is the username to authenticate with when sending via SMTR (Leave blank if you do not						
Settings	require authentication.)						
Plugin Management	SMTP Password	1					
WMI Settings	This is the password to authenticate with when sending via SMTR (Leave blank if you do not	-					
Utilities	(require authentication.)	- C.					
System Utilities	DNS Options		_				
User Management	Primary DNS IP Address						
Router Configs	Encondary DNS ID Addmas	1					
Network Tools	Enter the secondary DNS IP Address to utilize for reverse lookups.						
Updates	DNS Timeout	500					
Host Info	Please enter the DNS timeout in milliseconds. Cacti uses a PHP based DNS resolves	1990					
Logout User						can	cel save

Ilustración 13.Configuración del servidor de correo

5. WEATHERMAP: VISIÓN GRÁFICA DE LA RED

Cacti tiene la opción de mostrarnos una visión gráfica de nuestra red de una manera rápida y cómoda. Además nos permitirá consultar su estado mediante la visualización de las gráficas correspondientes a cada nodo de la red. Tan sólo tendremos que pinchar en la pestaña Weathermap. Ahí nos aparecerán dos mapas, uno general y otro específico de los puntos de acceso. Pinchamos el que queramos consultar.



Ilustración 14.Weathermap

Como vemos, al pasar el cursor por encima de los diferentes nodos se representa la gráfica correspondiente. Sin duda, es una de las funcionalidades más interesantes de esta herramienta, ya con un vistazo tenemos una visión generalizada del estado de nuestra red.

Si en un futuro se agrega algún elemento más a nuestra red y queremos incluirlo en nuestro Weathermap, habrá que proceder de la siguiente manera:

Nos vamos a la pestaña Console \rightarrow Management \rightarrow Weathermaps y nos aparecerá un editor de nuestro mapa de red.

Console -> Weathermap Managen	nent					Logged in
Create	Weathermaps					Add
New Graphs	Config File	Title	Active	Sort Order	Accessible By	
Management	Dibujo 1	WLAN	Yes	47	admin, guest,	×
Graph Management	Dibujo 2	Red	Yes	* *	admin, guest,	×
Graph Trees						
Data Sources			Re	calculate All Map	s NOW	
Devices			(Experimental	- You should NOT need	to use this normally)	
Thresholds	1	Least Deaure	notation Monthe	respectélelecite télept	harman Editor	16
Weathermaps		Lucar Ducum	entation weather	map website weat	nermap Eultor This is version 0.95	8
Report Configurations						
Device Tracking Management						





Pinchamos sobre el mapa que queramos modificar y nos aparece lo siguiente:

Ilustración 16. Mapa de red editable

Pinchando en "Add Node" añadimos un nodo. Acto seguido pinchamos sobre el escenario y nos aparece una etiqueta "Node". Pinchamos encima y nos aparece un cuadro donde poder establecer el nombre, el icono y donde podemos asociar las gráficas correspondientes a dicho nodo. Para acabar pinchamos en "Submit".



Ilustración 17. Añadir un nodo

Para crear uniones (o Links) entre dos nodos pinchamos en "Add Link", elegimos el nodo origen y el nodo destino y se crea automáticamente. Para editarlo (anchura, gráficas asociadas, ancho de banda...) pinchamos sobre él y nos aparece un cuadro como este:

Link Properties		Para aplicar los cambios
Link from 'Pila_Secretaria' to 'Core_CPD'	Cancel Submit	
Maximum Bandwidth Into 'Pila_Secretaria' 10000M bits/se	90	
Maximum Bandwidth Out of 'Pila_Secretaria' bits/sec		
Data Source <mark>//ar/www/html/rra/p</mark> [Pick.from Cauti]	bila_s	
Link Width <mark>5</mark> pixels		
Info URL <mark>/graph.php?rra_id=</mark>	all&li	
'Hover' Graph URL <mark>/graph_image.php</mark>	Ploce	
Delete Link Edi	Vert Horiz	→Para cambiar la orientación
This is where help appears for links		

Ilustración 18. Propiedades de los enlaces

Una vez hayamos terminado de crear todos los nodos y sus correspondientes links no tenemos más que cerrar la ventana del editor, irnos al Cacti y pinchar en la pestaña Weathermap.

Enero de 2012



Ilustración 19. Weathermap

6. CAMBIAR/AGREGAR USUARIOS Y PASSWORD

Si queremos cambiar el nombre o la contraseña del usuario que está creado por defecto hay que ir a la pestaña de Console \rightarrow Utilities \rightarrow User Management donde nos aparecerán los usuarios definidos.







7. TRANSFERIR FICHEROS/ARCHIVOS

Una herramienta para poder transferir ficheros a los directorios de Cacti es a través de Webmin (<u>https://IP_CACTI:puerto/</u>). Con esta herramienta además podemos realizar otras muchas tareas de mantenimiento del servidor:

Login to Webmin You must enter a username and password	
Username	Username: root Password: xxx
Login Clear	

Ilustración 21. Webmin

Para intercambiar ficheros con el servidor:

Webmin	Otros Sistema Hardware Ca	ctiEZ Servidores Red		Logout 🝳
Webn	 Cargas y Descargas Comandos Personalizados Comandos de Consola 	localdomain (CentOS Linux.	: 4.4)	Página de Inicio
Webmi	 Conexión Telnet/SSH Directorios Web Protegidos Estado de Sistema y de Servidor Explorador de Archivos 			
	 Módulos de Perl (CPAN) Túnel HTTP Cambio de Idioma y Tema 	Configuración de Webmin	Copia Seguridad Archivos Configuración	Histórico de Acciones de Webmin
			.,	
	usuarios de Webmin	ingra a zervidorez Medwin		Logout
				root@localhost.localdomain

Ilustración 22. Explorador de archivos

Aceptamos la alerta de seguridad del navegador.

strador de Archivos		
	Advertencia - Seguridad	
	El certificado de la página web no se puede verificar. ¿Desea continuar?	
	Nombre: 10.110.128.246 Editor: DESCONOCIDO	
	Confiar siempre en el contenido de este editor.	
	El certificado no se puede verificar mediante una fuente de confianza. Más información	

Ahora podemos navegar por el sistema de ficheros y cargar/descargar ficheros.

root@localhost.localdomain

Administrador de Archivos	Servidores Red			Logout
Indice Configurat Salvat Preview	Image: Second star Image:	Borrar Borrar Buevo Car	gaz Entract Nuevo Ruev	ro Renombrar Hontar
			1	History
- dev - dev - ecc - home - lib - lib - lib - lib - lost-found - media - mnt - opt - proc		0 B root 4 KB root 6 KB root 4 KB root	root root root root root root root root	05/Jul 02/Jun 19/May 07/Aug 02/Aug 12/Jul 12

Ilustración 23. Administrador de archivos

8. COPIA DE SEGURIDAD EN CACTI (BACKUP)

El sistema realiza automáticamente y a diario una copia de seguridad (ó backup) de su configuración completa y lo guarda comprimido en /var/www/backups.

Por seguridad, es conveniente guardar una copia de estos ficheros en un servidor remoto de almacenamiento de copias de seguridad. Se puede sacar dicha copia de manera automática a través de algún script o de forma manual del modo expuesto en el punto anterior, a través de webmin.

8.1 Proceso de Restauración de la copia

Tenemos la copia de seguridad en un fichero comprimido en /var/www/backups en la maquina con la instalación de Cacti a restaurar. Nos vamos al directorio donde tengamos instalado el Cacti (/var/www/html/cacti) y descomprimimos la copia de seguridad. Este proceso reescribirá cualquier configuración previa:

tar -xzvf /var/www/backups/cacti-backup.tar.gz

Importamos la base de datos sql y reiniciamos los servicios:

mysql cacti < /var/www/html/cacti-backup.sql mysql syslog < /var/www/html/syslog.sql service httpd restart service mysqld restart

9. COPIA DE SEGURIDAD DE CONFIGURACIÓN DE DISPOSITIVOS

Es importante tener una copia de seguridad de la configuración de nuestros dispositivos de red a la que podamos recurrir en caso de necesitar recuperar configuraciones anteriores. La herramienta de monitorización Cacti ofrece la opción de hacerlo de la siguiente forma:

Pinchamos en Console \rightarrow Utilities \rightarrow Router Configs

console gra	phs monitor	syslogs weathermap							
Console -> User Manag	ement						Logged in as a	dmin (Logout)	
Create	User Management							Add	
New Graphs	Search		90 0	lear					
Management									
Graph Management	<< Previous				Showing Rows 1 to	2 of 2 [1]		Next >>	
Graph Trees	User Name **	Full Name	Enabled	Realm	Default Graph Policy	Last Looin			
Data Sources	admin	Administrator	Vac	Local	ALL OW	Nordan August 22, 201	1.09-06-27		
Devices When shall do				i se		The state of the s		H	
Weathermone	guest	ddesc Account	Tes	cocar	ALLOW	(Horsbay, Soly 14, 2011	11144119		
Collection Methods	<< Previous				Showing Rows 1 to	2012[1]		Next >>	
Data Queries	L +						Choose an action: Delete	y go	
Data Input Methods									
Templates									
Graph Templates									
Host Templates									
Data Templates									
Threshold Templates									
Import/Export									
Import Templates									
Export Templates		E							
Configuration		Identificación reg	uerida						
Settings				1.11	5 18 2	THE SHE IS			
Plugin Management			http://IF_CACTI	está solicita	ndo un nombre de usuario y una con	straseña. El sitio dice:			
WMI Settings			T doomen d recegar						Nombre de usuario: guest
Utilities		Nombre de usuario:	1						Contracoño: vvv
System Utilities		Contraseña:							Contrasena. XXX
User Management				-					
Router Configs				Acepta	Cancelar	and the second			
Network Tools									
updates									
Host Into									
Logout User	8								

Ilustración 24. Acceso a la copia de seguridad

/[cvsroot]/sede / configs	Logged in as: guest

Index of /sede_de_trabajo

Files shown: 4 Sticky Tag:

File •	Rev.	Age	Author	Last log entry	
Parent Directory					
10.10.80.200	1.5	3 weeks	rancid	updates	
<u><u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	1.4	5 weeks	rancid	updates	
<u>10.10.80.202</u>	1.5	2 weeks	rancid	updates	
<u><u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	1.7	4 weeks	rancid	updates	

Powered by ViewVC 1.1.11

Ilustración 25. Copias de seguridad

Si elegimos por ejemplo el CPD obtendremos una pantalla como la siguiente:

Aquí aparecen Las copias de seguridad de los dispositivos disponibles: 10.10.80.200: CPD 10.10.80.201: Aulas 10.10.80.202: Secretaría 10.20.97.6: Controlador

Pinchando directamente encima de cada uno de ellos veremos las copias de configuración.

ViewVC Help

/[cvsroot] and / configs / #_CACH	Logged in as: guest
Log of / HDM_TRANAYO '/configs/#_CACTI	
Parent Directory Revision Log Links to HEAL (view) senectate) Sticky Tag: Set Revision 1.5 - (view) (anotate) - (select for diffs) Fr Jul 2902 15:30 2011 UTC (3 weeks, 3 days ago) by rancid Branch: MAIN CVS Tags: HEAD Changes since 1.4: 44 -5 lines	Pinchamos aquí para visualizar la <u>última v</u> ersión disponible de la configuración
Diff to <u>previous 1.4</u> updates	
Revision 1.4 - (view) (annotate) - [select for diffs] <i>Thu Jul 28</i> 02: <i>15:20 2011 UTC</i> (3 weeks, 4 days ago) by <i>rancid</i> Branch: <u>MAIN</u> Changes since 1.3: +1-0 lines Diff to <u>previous 1.3</u> updates	
Revision 1.3 - (<u>view)</u> (<u>annotate</u>) - [<u>select for diffs</u>] <i>Thu Jul 14</i> 07:56:30 2011 UTC (5 weeks, 4 days ago) by rancid Branch: <u>MAIN</u> Changes since 1.2 + 15 - 4 lines Diff to <u>previous 1.2</u>	
updates	
Revision 1.2 - (<u>view</u>) (<u>annotate</u>) - [<u>select for diffs</u>] Wed Jul 13 11:4508 2011 UTC (5 weeks, 4 days ago) by rancid Branch: <u>MAIN</u> Changes since 1.1:+2595 -0 lines Diff to <u>previous 1.1</u>	
updates	
/[cvsroot]/ state /configs/ P.CACT	Logged in as: guest 🍵
Contents of / store /configs/re_cacti	

Pa	
evisi ri Jul	on 1.5 - (<u>show annotations</u>) 129 02:15:30 2011 UTC (3 weeks, 3 days ago) by rancid
rancr VS T	
hand	
date	55
1	!RANCID-CONTENT-TYPE: cisco
2	1
3	!Chassis type: US-C4510R+E - a 4500 switch
4	ICPU: MPC8572, MPC8572 CPU at 1.5GHz, Supervisor 7
5	B
6	!Hemory: main 786516K/16384K
7	!Memory: nvram 511K
8	1
9	Processor ID: F0X150269C7
10	
11	1
12	'Image: Software: cat4500e-UNIVERSALK9-M, 03.01.01.SG RELEASE SOFTWARE (fc1)
13	'Image: Compiled: Tue 14-Dec-10 22:12 by prod_rel_team
14	
15	
16	<pre>!BootFlash: BOOT variable = bootFlash:cat4500e-universalk9.SPA.03.01.01.SG.150-1.X01.bin,1;</pre>
17	BOOFFISSA: CONFIG FILE VARIABLE does not exist
18	IBOOFILASH BUOILDK VARIAAJE GOES NOT EXIST
19	isootriassi tonniguration register 15 UX1U1 Dear Flace, Secondu POOT usrichta a kacaflacharar AFOOn universalbo SDA 03 01 01 87 450 4 Yot kin 14
20	Bootslash, Standay CONSIG THE ADDITION OF AN ADDITION AND ADDITIONAL ADDITICAL ADDITICAL ADDITICAL ADDITIONAL ADDITICAL ADDITICAL AD
21	Boot Flash, standard working rate does not exist
22	PoorFlash: Standby Configuration register is 02/101
20	
24	· · · · · · · · · · · · · · · · · · ·
20	(Flash: nyram: 512 -rw- 11662 <no date=""> startup-config</no>
20	(Flash: nvram: 513 1912 <no date=""> private-config</no>
28	!Flash: nvram: 514 -rw- 11662 <no date=""> underlying-config</no>
29	iFlash: nvram: 1 0 <no date=""> rf cold starts</no>
20	

10. MÁS INFORMACIÓN

En este documento se ha pretendido introducir al usuario a Cacti y exponer los conceptos básicos para empezar a utilizar la herramienta preconfigurada. Para mayor información, consultar la documentación existente en Internet:

http://www.cacti.net/ http://forums.cacti.net/index.php http://cactiusers.org/