Organize Services and Elements

In this module, you will work with Elements and service monitors, and create Element Groups and Service Groups for them, respectively.

On a practical level, doing these exercises will get you accustomed to using the Uptime Infrastructure Monitor interface to create different types of groups, and assign service monitors to Elements. At a conceptual level, you will learn how inheritance occurs in groups in Uptime Infrastructure Monitor, and gain an understanding about how you can focus on structuring your monitored inventory, while Uptime Infrastructure Monitor takes care of tracking Element-level relationships.

This module consists of the following exercises:

Exercise	Description	Time required
Create a Service Monitor and Service Group	Learn about service monitors in Uptime Infrastructure Monitor. Create one as the foundation to a Service Group. Learn how Service Groups work by linking one to all of your Elements in one step.	1 slice
Create Element Groups	Begin organizing your monitored inventory by creating an Element Group and a pair of child Element Groups.	1 slice
Learn About Inheritance	Create a new Service Group (including a service monitor) and assign it to a top-level Element Group. Examine the services of an Element in a child group to learn about inheritance.	1 slice

A Before You Begin

In the first module, if you followed all three tracks, your inventory should now include a Hyper-V or VMware vCenter Server (along with its inventory of ESX hosts and VMs), a pair of physical servers (one agent-based Linux system, and a WMI-based Windows system), and an SNMP network device. The screenshots used in this module reflect this.

For the exercises in this module, the two physical servers are used as examples. If you did not add physical servers to your inventory, you can either just follow along, or consider adding physical servers so that you can do every exercise.

Create a Service Monitor and Service Group

As a default way to report server uptime, for every server-type Element that is added to Uptime Infrastructure Monitor's inventory, a Ping service monitor is also created and assigned to it, in a one-to-one relationship. In this exercise, we will replicate this functionality, but instead using a single service monitor. We will be able to create a one-to-many relationship between a service monitor and all of your Elements using a *Service Group*. A Service Group is a group of service monitors that can be assigned to Elements or groups of Elements.

Add a Service Monitor

1. Click Services, then click Add Service Monitor in the left pane.

In the Add Service Monitor pop-up	o, select the Ping service	e monitor, and click Continue.
---	----------------------------	--------------------------------

		Expand / Contract A
Add Service - Page 1 of 2		
Select a service monitor to start:		Want more? Search for monitor
▲ Operating System Monitors		
Enhanced Log Monitor	File and Directory	File System Capacity
C Log File Monitor	Performance Check	Process Count Check
C Windows Event Log Scanner	Windows Service Check	Windows Uptime
Related Monitors:		
Ping	VM Host Performance Check	VM Instance Performance
VM Snapshot Performance Check		
✓ Applications - All Types		
✓ Applications - Databases		
✓ Applications - Email		
✓ Applications - General		
▼ Applications - Web Services		
✓ Domain Services		
♥ End User Experience Monitors		
V Network Device Monitors		
V Network Service Monitors		
▼ Storage Monitors		
VM Monitors		
		Cancel Continue.

3. Provide a Service Name of pingTest, and make it Unassigned.

Service Name	pingTest	
Description		
Host	Single System	
	Service Group	
	Unassigned	
Ping Settings	*0	
		Save All for Graphing

While creating this service monitor, you also can assign it to an individual Element (that is, a single system), or a Service Group; let's leave it assigned to nothing for now.

- 4. For the sake of completion, let's configure a pair of alert thresholds for the service monitor's Average Round Trip Time:
 warning > 30 ms
 - critical > 50 ms

	Save All for Graphin	
umber to send	5	
verage Round Trip Time	Save for Graphin	
Warning	is greater than 🔹 30 ms	
Critical	is greater than 🔹 50 ms	
Percent Loss	Save for Graphin	
Warning	Select a comparison method 🔻 🛛 %	
Critical	Select a comparison method 🔻 🛛 %	
lesponse time	Save for Graphin	
Warning	Select a comparison method v ms	
Critical	Select a comparison method 🔻 🛛 ms	

5. Click Finish, then click Close Window.

In the main UI window, the Info page for your newly created service monitor is displayed. Note there is no value in the Host field, showing that it is not assigned to any Element.

Create a Service Group

Let's now create a Service Group that includes the service monitor, and is assigned to the Infrastructure Element Group.

- 1. In the left pane, click Add Service Group.
- 2. In the Add Service Group pop-up window, confirm the group type is Regular, then click Continue.
- 3. Give the Service Group a name. In this example, we'll call this group pingable:

	Service Group	serv mak	time gives you the ability to group multiple fice monitors in to a single Service Group ing it easier to assign this group of services nany systems.	
Add Regular Service Group - Pa	age 2 of 2			
Name of Service Group	pingable			
Description				
Available Services		Selected	d Services	
unassigned	•			
	< Ad	Add > Remove d All >> Lemove All		
Available Element Groups		Selected	d Element Groups 🖉 Include subgroups	
Discovered Hosts Discovered Virtual Machines	< 1 Ada	Add > Ny Infras Remove d All >> emove All	tructure	
Available Elements		Selected	d Elements	
Discovered Hosts	•			
vmh-rd10.rd.local vmh-rd11.rd.local vmh-rd13.rd.local vmh-rd13.rd.local vmh-rd14.rd.local vmh-rd15.rd.local	< Ad	Add > Remove d All >> Remove All	*	

4. Configure the Service Group to include the **pingTest** service monitor you created earlier in this exercise, and associate it with the **My Infrastructure** Element Group.

🚹 FYI

My Infrastructure is always available as an Element Group, as it represents all of your monitored inventory (or, Elements), as shown when you view it in the Infrastructure panel. The other two groups shown in this example (Discovered Hosts, and Discovered Virtual Machines) were automatically created when you added a VMware vCenter Server as an Element.

5. Click Finish, then click Close Window.

In the main UI window, you are taken to your list of Service Groups, of which you now have one:

	Dashboards	My Portal Infrastructure	Services	Reports	Config	SysList		٩	Users	💄 mysql fi	rstname	Help
Service Monitors View Service Monitors Add Service Monitor Service Groups Add Service Groups Alact Profiles View Alact Profiles Add Alact Profiles	Service	B Monitors	Systems	Uptime service making	monitors in to	ability to group m a single Service to sign this group of	Broup					
Action Profiles	Regular Service G	roups										
View Action Profiles	© Nan	ne	0	Element Grou	ps		Recursive?	© E	Elements		Services	
Add Action Profile	🖹 🛃 🔝 pinga	ble	1				×	0			1	
Host Checks	vSphere Service G	roups										
View Host Checks Topology	No vSphere Service G	Broups created yet.										

The list provides a summary of each Service Group. In our case, our group is associated with a single Element Group (and any of its subgroups); it is not directly assigned to any individual Elements; it contains a single service monitor.

Validation

- 1. Click Infrastructure to view the inventory you added in the first module.
- Click any Element's gear icon, then in the pop-up menu, click **View** to display its **General Information** page. Because you have associated the Service Group to all Elements (by way of the **My Infrastructure** Element Group), the service monitor is attached to any Element.
- 2. In the left pane, click the Services tab to display any services attached to, and monitoring, this Element.

	Dashboards	My Portal	Infrastructure	Services	Reports	Config	SysList		٩	Users 💄 m	iysql firstname 🔹 Help 👻
Graphing Services Info	Status: 10.1.40.3	31 [Windows S	erver 2012 R2 Da	acenter]							
Services	View Status										
Status	+ Monitor			lement			* Status	* Ack	Last Check	© Duration	Monitor Information
Trends											
Outages	Windows Server Pe	erformance Check	k 1 (member) sa	-hv2-w732.uptim	edemo.com (1	0.1.40.45)	WARN	×	2016-12-29 11:23:31	+ 5m 40s	CPU Check: 88.5% >= 75%; Run
Availability	Linux File system 0	apacity Monitor	3 (member) sa	-hv2-ub1404-d.up	timedemo.com	n (10.1.40.43) ок		2016-12-29 11:12:11	+ 13 days 16h	All file systems are within accepta
Config	Linux Server Perfor	rmance Check 2 (member) sa	-hv2-ub1404-d.uj	timedemo.com	n (10.1.40.43) ок		2016-12-29 11:18:32	+ 13 days 16h	All checks are within bounds
Add Service	PING-10.1.40.43		53	-hv2-ub1404-d.up	timedemo.com	n (10.1.40.43) ок		2016-12-29 11:19:54	+ 13 days 16h	Ping completed: 5 sent, 0.0% los:
Manage Services	pingTest (member)		sa	-hv-2.uptimedem	o.com (10.1.4	0.31)	UNKNOWN			+ 8m 45s	Applement grant providing and a distribution
Maintenance											Physics completes is a point, it of the last

You can see that by creating a Service Group (**pingable**), and linking it to an Element Group to which this Element belongs (**My Infrastructure**), this Element now uses this service monitor. Some things to note using the above screenshot:

- the pingTest service monitor has a (member) suffix to indicate it is "attached" to this Element via a Service Group, meaning the
 properties of this service monitor can only be edited at the Service Group level (it is possible to "detach" a service monitor to make it
 editable at an Element level, but this is not a best practice)
- the pingTest service monitor status may be shown as UNKNOWN because it is recently added, and a full monitoring interval has not yet passed
- to view how long a monitoring interval is for a particular Element, click its Info tab, then look in the Data Collection section of the Genera I Information page

Bonus Knowledge

While we are viewing this Element's **Status** page (if you have clicked the **Info** tab, return to the **Status** page by clicking the **Services** tab), let's learn a few more things about service monitors and Elements using the example screenshot above, which is of a server-type Element with an Uptime Infrastructure Monitor agent installed on it:

- as with server-type Elements, upon addition to the Uptime Infrastructure Monitor inventory, a Ping service monitor was created and assigned to the Element called **PING-<hostname>**
- server-type Elements that have the Uptime Infrastructure Monitor agent installed will also have an UPTIME-<hostname> service monitor assigned to it
- if you click Host Check in the left pane, you can see which service Uptime Infrastructure Monitor is using to monitor that particular Element's status (which applies to most Elements except for VMware vCenter Servers)
- if you click Manage Services, you will see other service monitors attached to the Element that aren't necessarily related to status
 - Configuration Update Gatherer: collects any configuration changes for the monitored Element every 24 hours
 - Platform Performance Gatherer: collects basic performance metrics from the monitored Element using the Uptime Infrastructure Monitor Agent or WMI, and feeds them into Uptime Infrastructure Monitor; its metrics can be used with a performance-related service monitor such as Performance Check

Now that you've gone through a rudimentary exercise of creating a service monitor, a Service Group, and assigning them to the **Infrastructure** Element group, we'll learn more about their properties.

Create Element Groups

As you add Elements to Uptime Infrastructure Monitor, by default, they end up at the top of the **Infrastructure** hierarchy. Unless you are monitoring a small number of Elements, it's best practice to keep your monitored inventory well organized. Doing so helps both administrators and end users, which we will see in this exercise.

How you organize your Elements may depend on the policies that determine other aspects of your IT infrastructure, such as naming conventions for hosts. You may want to divide your inventory primarily by platform (for example, you could have Linux, Solaris, and Windows top-level groups); you may want to divide by geographical location; or you could organize first by Element function (for example, Production versus QA/UAT). In our example, we'll organize our Elements by function, then by platform.

- 1. Click Infrastructure, then click Add Group in the left pane.
- 2. Provide a Group Name of Production, leaving the other configuration options empty, or at the default value:

Groups	
Group Name	Production
Group Description	
Parent Group	My Infrastructure
Available Groups	Selected Groups
Discovered Hosts Discovered Virtual Machines	Add > <remove add="" all="">> <remove all<="" td=""></remove></remove>
*	×
Available Elements build-seleniumw (build-seleniumw.rd.local) build-soll-x86 build-sonar build-vmstudio-26 (build-vmstudio-26.rd.loca Cleaner (10.1.52.23) dev-sles112-x64 exch-ad01 (exch-ad01.rd1.local) exch-ad02 (EXCH-AD02.rd1.local) lab-novell65 lab-novell65ssl linux-rh63-vm v	Add > < Remove Add All >> << Remove All
Available User Groups	Selected User Groups
SysAdmin User Group	Add > < Remove Add All >> << Remove All

3. Click Save, then click Add Another.

4. Provide a Group Name of Windows Servers, and make the Parent Group the previously created Production group:

Groups				
Group Name	Windows	Servers		
Group Description				
Parent Group	Product	tion 🔻		
Available Groups		Selected Groups		
Discovered Hosts A Discovered Virtual Machines Production	Add > < Remove Add All >> << Remove All		¥	
Available Elements		Selected Elements		
build-seleniumw (build-seleniumw.rd.local) build-sollo-x86 build-vmstudio-26 (build-vmstudio-26.rd.loca dev-sles112-x64 exch-ad01 (exch-ad01.rd1.local) exch-ad02 (EXCH-AD02.rd1.local) lab-novell65 lab-nove	Add > < Remove Add All >> << Remove All	Cleaner (10.1.52.23)	*	
Available User Groups	_	Selected User Groups		
SysAdmin User Group	Add > < Remove Add All >> << Remove All			

5. From the Available Elements list, locate and add your Windows Element.

Note

As mentioned at the beginning of this module, it is assumed you have Windows and Linux server Elements in your inventory. If you don't, you can either follow along, substitute these examples with something similar in your current test inventory, or go back and add these types of Elements.

6. Click Save, then click Add Another.

7. Provide a Group Name of Linux Servers, and again make Production the Parent Group:

Groups				
Group Name	Linux S	ervers		
Group Description				
Parent Group	Produc	tion 🔻		
Available Groups		Selected Groups		
Discovered Hosts A Discovered Virtual Machines Production Windows Servers	Add > < Remove Add Ail >> << Remove All		*	
Available Elements		Selected Elements		
build-seleniumw (build-seleniumw.rd.local) build-sol1D-x86 build-ymstudio-26 (build-vmstudio-26.rd.local Cleaner (10.15.2.23) dev-sles112-x64 exch-ad01 (exch-ad01.rd1.local) exch-ad02 (EXCH-AD02.rd1.local) lab-novell65 lab-novell65 linux-rh63-vm	Add > < Remove Add All >> << Remove All		A V	
Available User Groups		Selected User Groups		
SysAdmin User Group	Add > < Remove Add Ail >> << Remove All		*	

8. Click Save, then click Close Window.

Notice how we did not add your Linux server to the Linux Servers Element group as we were creating it. You can also assign an Element to an Element Group from the perspective of the Element itself.

- 9. In the main UI window, locate your Linux server in Infrastructure.
- 10. Click its gear icon, then click Edit.
- 11. In the pop-up window, change the Element's Parent Group from Infrastructure, to Linux Servers:

Parent Group	Linux Servers	
Custom Field 1	Discovered Hosts Discovered Virtual Machines	
Custom Field 2	My Infrastructure Production	G
Custom Field 3	Windows Servers	

12. Click Save.

Validation (Infrastructure)

After adding the Element Groups, in the main UI window, Infrastructure is displayed. Click to expand the Production group, and the Windows Servers a nd Linux Servers child groups. Each of these child groups contain one Element.

	Dashboards	My Portal	Infrastructure	Services	Reports	Config	SysList	م	Users	💄 mysql firstnam	e – Help –
Uptime Infrastructure Monitor Infrastructure Add System/Netnoric Davice Add Service Level Agreement Infrastructure Groups Add Group Add View Auto Discovery Auto Discovery		esse click on 'Au ght click on alem row informatic reconstruction lications covered Hosts covered Hosts covered Hosts covered Virtual I work Davices er Servers Using duction Linux Servers & css26-rheld Windows Servers css1-rw20	to-Discovery' to scan y to-Discovery' to scan y rain in the treat operation n on how to use Uptime. rain lackings Agent 6 12/2	our network for	systems to ad						Collapse All
	Uiews	hv-2.uptimedemo vc1.uptimedemo.									Collapse All
	There are no views	to display									

Structuring your monitored inventory in **Infrastructure** not only facilitates Element management for system administrators, but, as the structures are reflected in dashboards, can also be useful for end users.

Pro Tip

Elements are not just servers, network devices, and their virtual instances; they can also be Applications and SLAs. Although based on metrics retrieved from monitored hardware (whether physical or virtual), Applications and SLAs provide health and performance information from a business perspective. Nonetheless, they are also found under **Infrastructure**, and can be placed in their own Element Groups. Refer to the product documentation for more information about SLAs, and Applications and the Applications dashboard.

Validation (Resource Scan)

Click **Dashboards**, then click the **Resource Scan** tab. This dashboard summarizes resource usage for server-type Elements from various points in your hierarchy of Elements: you can click an individual server to show its usage data, or Element Groups to show an average of all its Elements. Your **Productio** group is here, showing an average of the data for the servers you added to its platform-specific child groups. Click the parent group to drill down and display the **Windows** and **Linux** child groups. Each child group now shows usage data for its respective Element. Click either child group to display its contents, which in our case is a single server that you added:

	Vene seme between setting to the setting to the set	Analas Assessed Marjadana (Asses) Assessed Assessed balance and assessed
	C C C C C C C C C C C C C C C C C C C	
Laisense Marine and Carling Control Control Control Laisense Control C	····································	
		ta : Martin

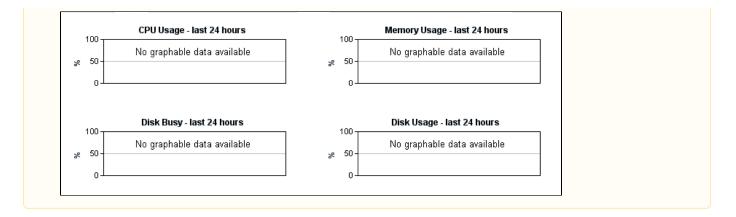
When you are viewing data for one child group, you can move laterally to display a sibling child group by using the drop-down at the end of the breadcrumb trail at the top of the dashboard:

Global Scan Resource Scan SLAs Applications	Network All Elements All Services Custom Example hv caps Map +
Resource Scan	
Current Location: My Infrastructure -> Production ->	Windows
	Linux
	Windows
40 6Ô	i i i i i i i i i i i i i i i i i i i

Keeping your monitored inventory well organized has several important benefits including more relevant at-a-glance viewing, logical drill-down paths for investigation, and focused report generation. Element Groups are even more useful when combined with Service Groups, which we will explore a bit more in the next exercise.

A Note

In the sample images above, the gauges and performance graphs are showing more information than you may be seeing on your own Monitoring Station. A data-collection interval is required to have passed before any information is shown; until then, you may see empty graphs such as the following:



Learn About Inheritance

In the first exercise, you created a basic Service Group and assigned it to all of your Elements via the **Infrastructure** Element Group. Let's create another Service Group that demonstrates inheritance. To do this, we make use of the **Production** parent Element Group we created in the previous exercise. But first, let's create a service monitor that is part of the Service Group. Because it is assigned to Elements in the **Production** Element group, this service monitor should be something appropriate for all servers in a production environment.

- 1. Click Services, then click Add Service Monitor in the left pane
- 2. In the Add Service Monitor pop-up, select the Performance Check service monitor, and click Continue.

		Expand / Contract /
Add Service - Page 1 of 2		
Select a service monitor to start:		Want more? Search for monito
▲ Operating System Monitors		
Enhanced Log Monitor	File and Directory	File System Capacity
C Log File Monitor	Performance Check	Process Count Check
Windows Event Log Scanner	Windows Service Check	Windows Uptime
Related Monitors:		
© Ping	VM Host Performance Check	VM Instance Performance
VM Snapshot Performance Check		
✓ Applications - All Types		
✓ Applications - Databases		
♥ Applications - Email		
✓ Applications - General		
✓ Applications - Web Services		
V Domain Services		
♥ End User Experience Monitors		
V Network Device Monitors		
▼ Network Service Monitors		
✓ Storage Monitors		
VM Monitors		
		Cancel Continue

3. Provide a Service Name of Server Performance (Prod), and leave it Unassigned (we are going to create a Service Group for it):

Add Service - Performance Ch	eck - Page 2 of 2
Service Name	Server Performance (Prod)
Description	
Host	Single System
	Service Group
	Our Unassigned
Performance Check Settings	
r errormance ancer accordings	Save All for Graphing
Time Interval	
Sustained Average Time Interval	10 min
CPU Check	
CPU Value	Total
CPU Warning Threshold	75 %
CPU Critical Threshold	90 %
Run Queue Check (run queue	ength per CPU)
Run Queue Warning Threshold	1 num/cpu
Run Queue Critical Threshold	3 num/cpu
Memory Check (percent mem	ory used greater than)
Used Memory Warning Threshold	85 %
Used Memory Critical Threshold	95 %
Swap Check (percent swap us	ad greater than)
Used Swap Warning Threshold	85 %
Used Swap Critical Threshold	95 %
Disk I/O Check	
Disk to Check	🖲 Individual disks 🔘 Average across all disks
Disk Value	Queued Requests
Disk I/O Warning Threshold	2 % or num
Disk I/O Critical Threshold	4 % or num
Network I/O Check	
Interface to Check	Individual interfaces O Average across all interfaces
and the t	

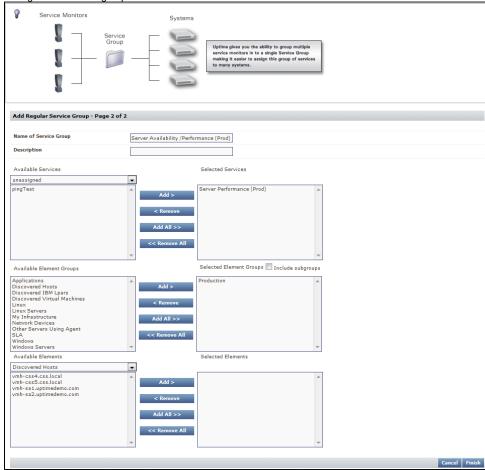
 For the sake of the exercise, continue to configure the service monitor with some thresholds, similar to those shown above. For this module and guide, we won't be making use of any performance checks you define, but feel free to experiment. You can always enter some unrealistically strict thresholds to force alerts, just to see how they appear on the dashboards.
 Click Finish, then click Close Window.

5. Click Finish, then click Close Window. Now that we have created a common performance check intended for all your production servers, let's do what we did in the first exercise of this module, and create a Service Group that will include it.

6. Click Services, then click Add Service Group in the left pane.

7. in the Add Service Group pop-up window, confirm the group type is Regular, then click Continue.





- Provide a logical group name such as Server Availability/Performance (Prod)
- From the unassigned group of Available Services, add the Server Performance (Prod) service monitor you created earlier in this
 exercise.
- Select, from the Available Element Groups, the Production Element Group that you created in the last exercise.
- Ensure the **include subgroups** check box is selected.
- 9. Click Finish, then click Close Window.

Validation

Click Infrastructure to see your hierarchy:

	Dashboards My	y Portal Infrastructure	Services Reports	Config SysList	م	Users 🛓 mysql firstname 👻 Help 👻
Infrastructure Groups Add Group Add View Auto Discovery Auto Discovery	Y Right city Y Right city	kd Hosts dd IBN Lpars dd IBN Lpars Devices vers Using Agent n Servers za2c-shel66 kws Servers zsilotal uptimedemo.com ptimedemo.com	n additional actions.	Id to Uptime.		Collapor Al,

Remember, referring to the structure presented in the example above, that you directly assigned the Service Group to the **Production** Element Group, and you chose to include subgroups. Click one of the Elements in either the Linux or Windows child Element Group. When that Element's **General Information** page is displayed, click the **Services** tab, then **Manage Services**.

IDERA Uptime Infrastructure Monitor	Dashboards	My Portal	Infrastructure	Services	Reports	Config	SysList		۹	Users	🛓 mysql firstname	Help
Graphing Services Info	Status: css26-rh	el66 [Red Hat I	Linux 6.6]									
Services	Status											
Status	• Monitor		* Statu	s ^A	ck 🛛 Last Che	zek	Duration	Monitor Information				
Trends				-								
Outages	PING-css26-rhel66		OK		2016-12-	29 12:03:11	+ 13 days 13h	Ping completed: 5 sent, 0	0.0% los	s, 0.93m	s average round trip 🔶	
Availability	UPTIME-css26-rheld	56	ок		2016-12-	29 12:05:07	+ 13 days 13h	Uptime agent running on	css26-r	hel66, Up	time agent 7.8.0 (bu 🔶	
Config	Server Performance	e (Prod) (membe	unkno	OWN			+ 37 s					
Add Service												
Manage Services												
Host Check												
Maintenance												
Graphing												
Service Metrics												

Note that the "Server Performance (Prod)" service monitor is now attached to this Element by way of the Service Group. In the above example, we are showing the Linux server. The service monitor will also now be attached to the Windows server:

	Dashboards				Reports			م ۵	sers 💄 mysql firstname	- Help
Graphing Services Info	Status: css11-w2	2012r2 [Windo	ws 8/Server 2012]							
Services	Status									
Status	- Monitor		* Status	* Ack	Last Chec	k	© Duration	Monitor Information		
Trends				-						
Outages	PING-css11-w2012	r2	ок		2016-12-2	9 12:05:04	+ 13 days 13h	h Ping completed: 5 sent, 0.0% loss, 1.3	1ms average round trip 🔶	
Availability	UPTIME-css11-w20	12r2	ок		2016-12-2	9 12:03:09	+ 9 days 22h	Uptime agent running on css11-w2012	r2, Uptime Windows-MS-age 🔶	
Config	Server Performance	e (Prod) (membe	UNKNOW	N			+ 2m 5s			
Add Service										
Manage Services										
Host Check										
Maintenance										
Graphing										
Service Metrics										

Additionally, whenever an Element is created in, or moved to, the **Production** Element Group (and, as configured, to either of its subgroups), that Element will inherit whichever service monitors are assigned to the group.

Extrapolating from this example, you could create a battery of service monitors that act as performance and health checks for all production servers. These service monitors would be added to the **Server Performance (Prod)** service group that is associated with the top-level **Production** Element Group. You could then create platform-specific health checks, and add them to appropriate Linux- and Windows-specific Service Groups (which you would need to create). These Service Groups could then respectively be associated with the existing Linux Servers and Windows Servers Element Groups.

Once these Service Group and Element Group relationships are established, if you created more child Element Groups, the respective Elements they contain would inherit the appropriate service monitors. (For example, adding a "Solaris" Element Group as a child of the **Production** group, and sibling of the Linux and Windows groups means the Solaris servers will inherit all of the general health check service monitors; adding a "Databases" Element Group as a child of the **Windows** group means the database servers will inherit all the Windows-specific health check monitors.)

The important thing to note is it's more efficient to manage not at the Element level, but at the object level, whether that object is a Service Group, Element Group, or other Uptime Infrastructure Monitor construct you will learn about; if you focus on Element Groups and Service Groups, everything else lines up and falls into place. Well managed arrangements of Element Groups and Service Groups can result in powerful cascading configurations.

Back: Tour the Interface

Next: Organize Users and Views