

Generate Reports

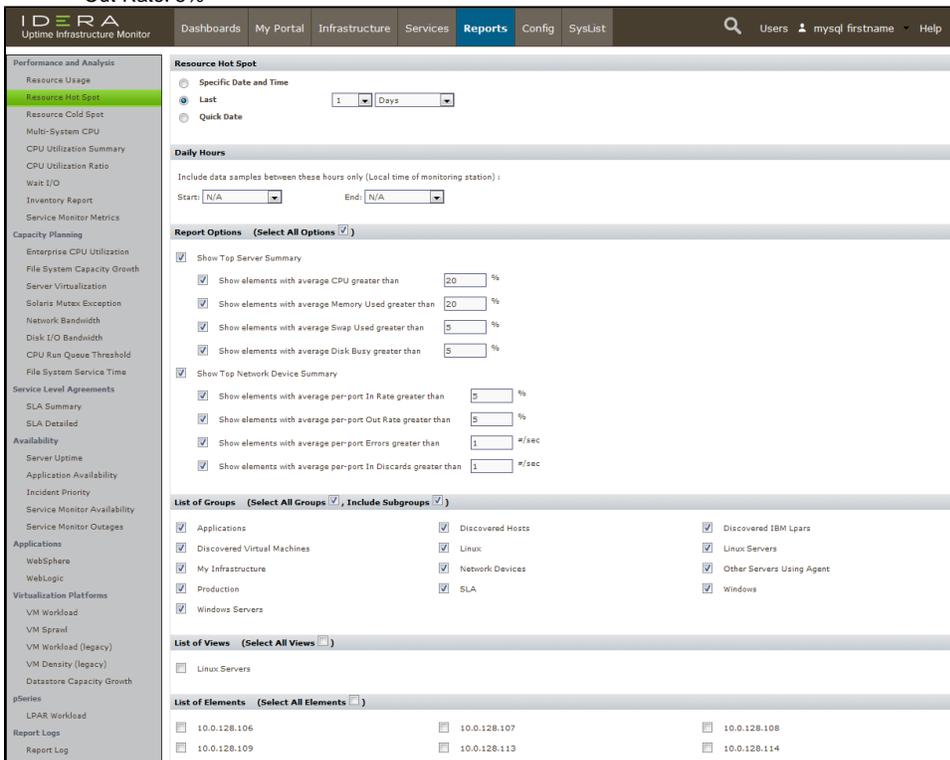
Over the last four modules, you have populated your monitored inventory with some sample Elements, got to know the main areas of the Uptime Infrastructure Monitor UI, and learned about how the intersecting properties of Elements and Element Groups, service monitors and Service Groups, Users, and Views allows you to configure Uptime Infrastructure Monitor for every type of user in your organization. While doing these modules, you've hopefully used up enough time to allow some data collection cycles to happen, meaning there can be data in reports.

This module consists of the following exercises:

Exercise	Description	Time required
generate a hot spot report	drawing from now-collected metric data for your Elements, identify which are performance hotspots	1 slice
generate a server up time report	explore the default up time reports that help you assess your infrastructure immediately upon installation	1 slice
Revisit the Quick Snapshot pages	When you first added the virtual server Element in Track 1 of the first module, you examined the (empty) contents of the Hyper-V or vCenter Server's Quick Snapshot, and a random VM's Quick Snapshot. Let's revisit these pages to see what they look like with a little more data on them.	1 slice

Generate a Resource Hot Spot Report

1. Click **Reports**, then click **Resource Hot Spot** in the left pane.
2. In the opening set of options, click **Last**, then leave the selection at **1 Days**.
Because you presumably have only had these Elements monitored over the course of this Getting Started Guide, you do not have more than a days' worth of data to draw; however, feel free to increase the time frame if you have collected more data.
3. In the **Report Options**, let's **Select All Options** to also include any possible network-device issues.
4. The report allows you to define what constitutes a hot spot, and the default values are reasonable. In the hopes of having some "resource gluttons" appearing in your report, let's manufacture a crisis, and configure new, lower thresholds, as shown below:
 - CPU Used: 20%
 - Memory Used: 20%
 - In-Rate: 5%
 - Out-Rate: 5%



Below the **Report Options** section are three sections that allow you to select what is to be included in the report. You can use any of the ways you've organized your inventory to select which Elements are included in the report: Element Groups, Views, and individual Elements. Note in the above screenshot that the **Linux Servers** View you created in the previous module, and the **Production**, **Linux Servers** and **Window s Servers** Element Groups you created in the module before that are available.

- For simplicity, select **All Groups** from the **List of Groups** section (as shown in the image above), to include everything we have added to our monitored inventory.
- Scroll to the bottom of the page to view the last two sections: **Generate Now** and **Save Report**:

Generate Now

User:
 Group:
 Distribution List:
 Email Address:

Save Report

Save to My Portal As: Description:

HTML Publish Report Scheduled Report (Run at 16 : 22)
 PDF Daily Every 1 day(s)
 XML Weekly Every Weekday
 Email Monthly Separate Report Per Element

When configured to perfection, reports can be saved to be generated at a precise time, at a specific schedule, in various formats. Users also can save reports to their **My Portal**. Administrators and end-users can schedule reports for themselves, or as part of an agreement, deliver them to managers.

Reports can also be generated in real time, to assist with diagnosis, or to fine-tune the configuration of a report. This example uses this process.

- In the **Generate Now** section, click **Print to Screen**.

Validation: Admire the Resource Hot Spot Report

The results of the report depends on the activity and performance of your Elements, but hopefully there is enough activity for resource hot spots to be listed, such as in the following example:

Resource Hot Spot Report

For Period: 2016-12-28 16:19 to 2016-12-29 16:19
Produced By: lastname, mysql firstname (admin)

Top Resource Consumers Summary

These systems are your top consumers in each capacity category

Top Servers

CPU		Memory		Swap		Disk	
	%		%		%		%
css10-w2012r2	82	qa-uim78.uptimedemo...	99	demo-mssql04.uptime...	97	demo-mssql04.uptime...	34
lab-solaris111	60	lab-solaris111	97	css-demo-mysql	91	uptime-demo78.uptim...	18
sa-scrutinizer-tcpr...	50	SA-HV-2	97	lab-solaris111	59	css11-w2012r2	17
sa-vc1	50	sa-vc1	97	sa-vc1	59	sa-vc1	16
vmh-sa1.uptimedemo....	43	demo-exch2013.uptim...	95	css-exchange	56	lab-wl-ws	13

Top Network Devices

In Rate		Out Rate		Errors		Discards	
	%		%		errors/sec		discards/sec
san-sata2-e...eth1	2	san-sata3-e...eth1	3	cat3.uptime...m/g1	0	cat3.uptime...m/g1	0
san-sata2-e...eth2	2	san-sata3-e...eth1	3	cat3.uptime.../g13	0	cat3.uptime.../g13	0
san-sata2-e...eth1	2	san-sata3-e...eth1	3	cat3.uptime.../g14	0	cat3.uptime.../g14	0
san-sata2-e...eth2	2	san-sata2-e...eth1	1	cat3.uptime.../g16	0	cat3.uptime.../g16	0
san-sata2-e...eth1	2	san-sata2-e...eth2	1	cat3.uptime...m/g5	0	cat3.uptime...m/g5	0

Servers with High CPU Usage

These elements averaged > 20%

css10-w2012r2

	CPU %	Mem %	Swap Usage %	Disk Busy %
Max	101	70	3	2
Avg	92	67	3	0
Min	0	65	3	0

The opening **Top Resource Consumers Summary** lists Elements regardless of your configured thresholds; subsequent sections list any hot-spot Elements.

Generate a Pre-configured Server Uptime Report

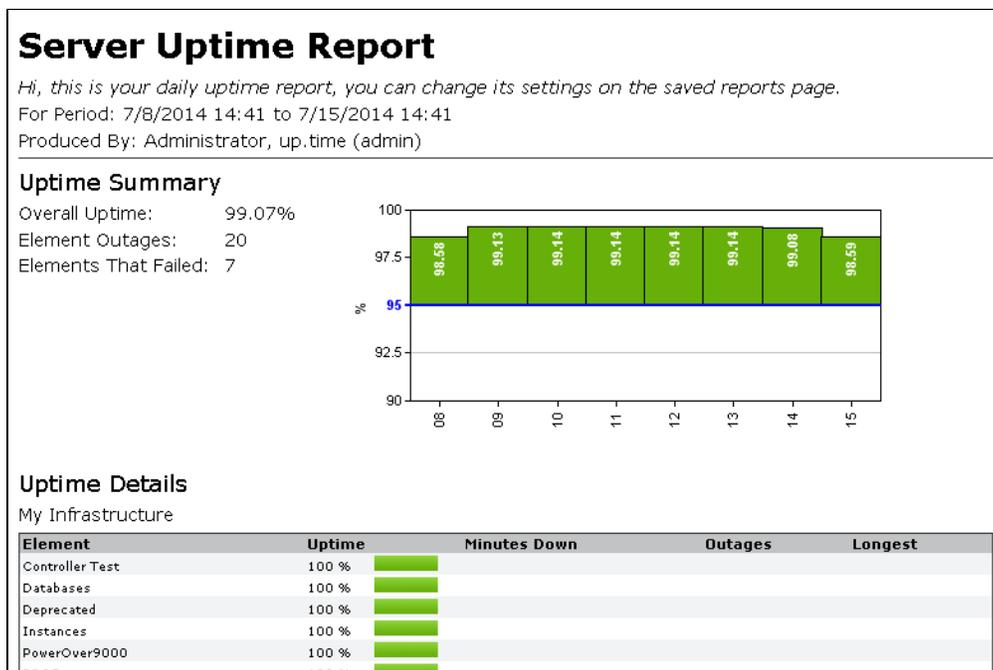
When Uptime Infrastructure Monitor is first installed, a few broad-coverage, quick-value reports are created out of the box for the **admin** user. One of these is the Server Uptime report, which is ideal for all the ESX hosts and VMs that are managed by your VMware vCenter Server Element.

1. Click **My Portal**, then click the **Saved Reports** tab.
2. Note the report you generated in the last exercise is also in this list as a pre-configured report. One of the benefits users saving reports to their respective My Portal Saved Reports lists is they can generate at any time, based on saved settings. Let's demonstrate how to live in the moment.
3. Click the play icon to print the Server Uptime Report to screen.

Report Name	Report Description	Saved By	Scheduled?	Published?	Next Run Time
Incident Priority Report	Weekly review of key service delivery metrics, highlighting problem services and areas for improvement.	lastname, mysql firstname (admin)	Yes	Yes	Dec 30, 2016 16:45
Resource Hot Spot Report	Weekly detailed performance audit and planning report	lastname, mysql firstname (admin)	Yes	Yes	Jan 2, 2017 16:46
Server Uptime Report	Daily report	lastname, mysql firstname (admin)	Yes	Yes	Dec 30, 2016 16:48

Validation: Review the Server Uptime Report

The pre-configured options for this report include all of your Elements (by the report configuration, the **Infrastructure** Element Group, as well as its subgroups), and whether they met a target uptime threshold of 95%. This is reported for the last seven days. If you have completed all of this guide in the same sitting, unless you are very slow, you won't have a week's worth of data to display. Uptime Infrastructure Monitor reports with however much data it has collected, which in this case is likely a day's worth. The following example shows a full week of meeting up-time targets, with a modest number of outages:



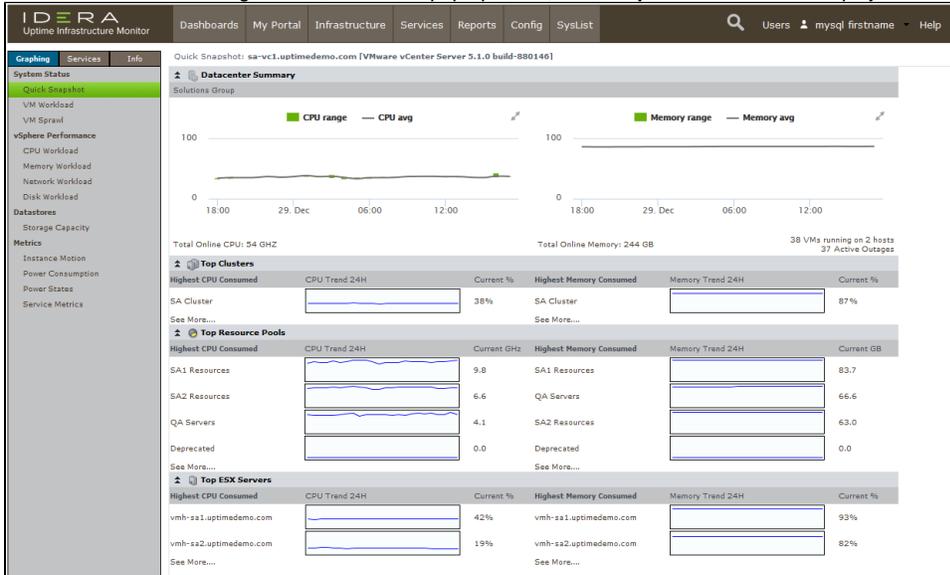
Now that you've touched on a couple of reports, let's go back to what are essentially a real-time status report, the Quick Snapshot.

Revisit the Quick Snapshot pages

In the first module, specifically the first track, you added a VMware vCenter Server to your monitored inventory. In the final exercise, you [viewed the Quick Snapshot](#) for both the vCenter Server Element and one of its VMs. Because the vCenter Server was just added, there was no data in the graphs. Because the graphs show the last 24 hours of activity, you only need to wait overnight to fully populate them, but even a handful of data-collection cycles can suffice. Let's revisit these pages.

1. Click **Infrastructure**.

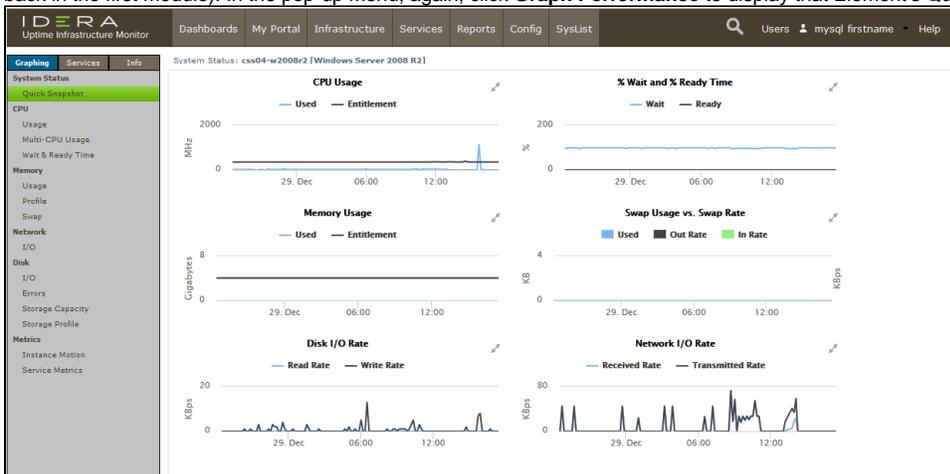
2. Click the vCenter Server's gear icon, then in the pop-up menu, click **Graph Performance** to display its **Quick Snapshot**.



The this example, there is a full day's worth of data displayed for a same vCenter Server that comprises three datacenters. The top CPU and memory consumers are shown by cluster, ESX host, and resource pool; you should now see some ranked vCenter Server objects, accompanied by historical graphs.

3. Click **Infrastructure** to return to the main inventory view.

4. Expand the **Discovered Virtual Machines** Infrastructure Group, and click the gear icon for any of the VMs (preferably the same one you selected back in the first module). In the pop-up menu, again, click **Graph Performance** to display that Element's **Quick Snapshot**.



The key performance and resource metrics for the VM should now show some usage and baselines.

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