# dinManage Analytics and Monitoring

### **User Guide**

Version 1.0



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Disclaimer: Data/ records shown in the images are used for illustrative purposes only and have no relation to original data; this data has been used solely to explain system functionality. Please enter original data in the system when using the system.

# Contents

Chapter 1 Setting up Analytics and Monitoring	4
Overview	4
Installing Analytics Agent	4
Activating Analytics and Monitoring Features	7
Disabling/Enabling Analytics and Monitoring	9
Important Notes	11
Chapter 2 Working with dinManage Analytics	12
Viewing Current Stats	12
Viewing Historical Stats	16

Chapter 3 Working with dinManage Monitoring	20
Creating a New Alert	- 20

	-0
Working with Existing Alerts 2	22
Important Notes 2	25

### Chapter 1 Setting up Analytics and Monitoring

### **Overview**

Analytics feature enable dinManage users to grab and view real-time VM stats within dinManage. The stats presented include the utility and availability of CPU, Memory, Disk, and Network in and out time. Analytics data can be viewed in real-time, or historically. You can also setup monitoring alerts, which provide notifications when specified utilizations reach certain thresholds.

This chapter includes information about installing and setting up Analytics and Monitoring features on your virtual machine.

### **Installing Analytics Agent**

To enable Analytics and Monitoring features for a VM, you will be required to download and install the Analytics Agent on the relevant VM.



To download and install the Analytics Agent, you will be required to perform the following steps:

1 Using a supported browser, log in to your dinManage account.

The dinManage Homepage displays.

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	QA Testing Document     New document			updated 4 month(	s) ago (s) and 4	dinCloud Support n 07:47 AM (UTC)	emote consoled into virtua	I machine (customer ID:169	0) at Mar. 08, 2016,
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2 Click **My Servers** tab if the relevant VM is a server machine, or click **My HVDs** if the VM is listed as an HVD. In either case a list of VMs displays.

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	Tdin-hs110	CPU: 2 MEMORY: 2GE	DISK: 80GB May 03, 2016 OF	F 🛞 👻
Contact Lis	Tdin-hs130	CPU: 1 MEMORY: 1G	B DISK: 0CB Penc	ling sk Prooress Bar A

3 Click the name of the VM on which the Analytics Agent needs to be installed.



The Server Detail screen displays. Click the Machine Stats tab.

My Das	shboard	My HVDs	My Servers	My Library		My Deprovisioned	My Security	My	Tools
	Server Detail								
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Gives	you detail updates o and Out's	Current Stats of your machine's current Memory and CPU Uti	nt Disk Space, Networks lization etc.	in's	Gives	His you detail history of your ma Memory an	torical Stats chine's Disk Space, I d CPU Utilization etc	Vetworks In's a	and Out's,

4 Under the Machine Stats tab, click the link under the *Download and Install Agent* icon.



Make sure you are performing this task on the machine for which you want to enable Analytics and Monitoring features.



5 Once you have installed the Analytics Agent on the target VM, using the installer file you just downloaded, click [Initialize Agent] under the **Machine Stats** tab.



For more information about installing the Analytics Agent for guest VMs, refer to the *dinManage Agents Installation Guide*.

6 A confirmation message displays, notifying you that the agent has been successfully initialized on this VM.



### **Activating Analytics and Monitoring Features**

To activate Analytics and Monitoring features on your VM, you will be required to perform the following steps:

1 Using a supported browser, log in to your dinManage account.

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O Place Order	My HVDs	3	My Servers	11	My Se	ecurity	👩 Machin	e States
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Channel Partners		webHVD	~	linServer	VPN	Port Rules	Pending Setup	Deprovisioned
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The dinManage Homepage displays.

2 Click **My Servers** tab if the relevant VM is a server machine, or click **My HVDs** if the VM is listed as an HVD. In either case a list of VMs displays.



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My Servers				2) CART - CHECKOUT
My Cloud	My Dashboard My HVDs	My Servers My Library	My Deprovisioned My Security	My Tools
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Channel Partners	O Tdin-hs30	CPU: 2 MEMORY: 4G8	DISK: 0G8	Pending
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	O Tdin-hs110	CPU: 2 MEMORY: 2GB	DISK: 80GB May 03, 2016	OFF 💿 💌
	Tdin-hs130	CPU: 1 MEMORY: 1GB	DISK: OGB	Pending

3 Click the name of the VM for which the Analytics and Monitoring features will be enabled.

The Server Detail screen displays. Click the Machine Stats tab.

Server De	etail								
Tdin-hs482						۶.	ປ ລ ↓1	Ð	
CPU MEMORY D 1 1GB 10	Product: T Label : <i>Clic</i> Order ID : 6 Order ID : 6 Order ID : 6 Order D	tin-hs190 Template k here to add label 613 ale : September 28, 2016			IF N N	*Address(s): 10.1.1.13 o. of Supplementary Disks : 0 etwork(s):10.1.0.0/23 ort(s): 0			e on
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1 Primary D	Disk 80 GB	Completed	0		1	TdincInc-1668-pg(10.1.0.0/23)	10.1.1.1	3	0
Activity Logs	Machine Stats	You don't I HOW '	nave Analytic TO ENAR	I Senabled on BLE ANA	this m	achine TCS			



- 4 Under the Machine Stats tab, click the **Enable analytics and monitoring** icon.
- 5 You have successfully enabled analytics and monitoring features on the target VM. After the trial period ends, you may continue using these features for a charge.

### **Disabling/Enabling Analytics and Monitoring**

To disable or enable Analytics and Monitoring features on your VM (on which agent installation and setup is already complete), you will be required to perform the following steps:

1 Using a supported browser, log in to your dinManage account.

The dinManage Homepage displays.

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2 Click **My Servers** tab if the relevant VM is a server machine, or click **My HVDs** if the VM is listed as an HVD. In either case a list of VMs displays.



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Channel Partners	Tdin-hs30	CPU: 2 MEMORY: 4GB	DISK: OGB	Pending
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	O Tdin-hs110	CPU: 2 MEMORY: 2GB	DISK: 80GB May 03, 2016	OFF 💿 👻
	Tdin-hs130	CPU: 1 MEMORY: 1GB	DISK: DGB	Pending

3 Click the name of the VM for which the Analytics and Monitoring features will be disabled or enabled.

The Server Detail screen displays. Click the Machine Stats tab.

Activity Logs	Machine Stats	Monitoring & Alerts		
	Curre	nt Stats	Historical Stats	
Upgrade to Advance	Analytics		\$ 3.0/month	Disable
Monitoring Alerts			\$ 2.0/month	Disable

- 4 Click [Disable] against the feature you want to disable.
- 5 A confirmation message is displayed. The relevant feature is now disabled.
- 6 To re-enable disabled analytics or monitoring features, under the same tab, click [Activate] against the feature you want to enable.

Upgrade to Advance Analytics
Upgrade to Advance Analytics
Monitoring Alerts

7 A confirmation message is displayed. The relevant feature is now reactivated.



### **Important Notes**

1 In case a user powers off a VM, the agent also deactivates, and a message is displayed once you click the **Machine Stats** tab while the relevant VM is powered off, as shown in the image below. The Analytics data automatically reappears under the **Machine Stats** tab once the relevant VM is powered back on.

Activity Logs	Machine Stats	Monitoring & Alerts	
	Curre	ent Stats	Historical Stats
		No current stats are available a	s this machines is powered off.

- 2 On a VM that has agent installed and running, you will be required to click the *start 7 day trial* icon to start viewing the fully functional analytics screens on **VM Details** page. Your billing for Analytics feature shall automatically begin once the 7 day trial period ends, unless you disable the Analytics feature before the end of your trial period.
- 3 You will also receive a reminder email before your Analytics trial period expires.

## Chapter 2 Working with dinManage Analytics

### **Viewing Current Stats**

You can view the current live stats of a VM with Analytics enabled. Perform the following steps to view current stats for a VM.

1 Using a supported browser, log in to your dinManage account.

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O Place Order	My HVDs	3	My Servers	11	My Se	ecurity	👩 Machin	e States
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Channel Partners		webHVD		linServer	VPN	Port Rules	Pending Setup	Deprovisioned
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								View More

The dinManage Homepage displays.

2 Click **My Servers** tab if the relevant VM is a server machine, or click **My HVDs** if the VM is listed as an HVD. In either case a list of VMs displays.



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My Cloud	My Dashboard My HVDs	My Servers My Library	My Deprovisioned My Security My Tools
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My Account	Name	<ul> <li>Specifications</li> </ul>	Creation Date Creation Status Creation
Channel Partners	Tdin-hs30	CPU: 2 MEMORY: 4GE	DISK: DGB Pending
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	O Tdin-hs110	CPU: 2 MEMORY: 2GB	DISK: 80GB May 03, 2016 OFF 🛞 🗸
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3 Click the name of the VM for which you want to view Analytics stats. The Server Detail screen displays.

	Server Detail												
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CPU 1	MEMORY DISK 1GB 410GB	Product : <b>Tdin</b> Label : <i>Click h</i> Order ID : <b>662</b> Creation Date	hs190 Template ere to add label ) : September 29, 2016				IP Address(s) : 10.1.0.166 No. of Supplementary Disks : 6 Network(s) :10.1.0.0/23 Port(s) : 0						C N
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2	DISK1	50 GB	Completed	0									
3	DISK2	60 GB	Completed	0									
4	DISK3	100 GB	Completed	0									
5	DISK4	50 GB	Completed	0									
-	DIOVE	20.00	A	•									
Activit	y Logs Machine St	ats Monito	ring & Alerts										
shahzad_gi	ultest@dincloud.com created v	vm alert (VM Name	e Tdin-hs485) at Oct. 05,	2016, 01:5	2 PM (UT	C)							
shahzad_gi	ultest@dincloud.com created v	vm alert (VM Name	: Tdin-hs485) at Oct. 05	2016, 11:19	9 AM (UT	C)							

4 Click the **Machine Stats** tab.



Activity Logs Machine Sta	ats Monitoring &	Alerts			
	Current Stats			Historical Stats	
					🛞 Refresh Stats
Disk Utilization		Dis	ik IOPS	Network	k In/Out
Total DISK Space Available	410GB	Read IOPS	3866MB/sec	Network In	3096Mb/sec
Percentage DISK Used	22%				
Percentage DISK Free	78%	Write IOPS	3258MB/sec	Network Out	28Mb/sec
	CPU Utilization			Memory Utilization	
	0%			42%	
	070			<b>42</b> /0	

The Current Stats display under the Machine Stats tab.

- 5 The following current stats are displayed:
  - Disk Utilization
    - Total disk space available
    - Percentage disk used
    - Percentage disk free
  - Disk IOPS

- Read IOPS
- Write IOPS
- Network In/Out
  - o Network In
  - Network Out



- CPU utilization graph
- Memory utilization graph
- Drive utilization graphs (including all supplementary disks)





### **Viewing Historical Stats**

You can view the historical stats of a VM with Analytics enabled. Perform the following steps to view historical stats for a VM:

1 Using a supported browser, log in to your dinManage account.

The dinManage Homepage displays.

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Channel Partners		webHVD	~	linServer	VPN	Port Rules	Pending Setup	Deprovisioned
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	QA Testing Document		updated 4	month(s) ago	dinCloud Support re	mote consoled into virtual	machine (customer ID:169	0) at Mar. 08, 2016,
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2 Click **My Servers** tab if the relevant VM is a server machine, or click **My HVDs** if the VM is listed as an HVD. In either case a list of VMs displays.

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My Account		Name		▲ SI	pecifications		Creation Date	🗘 Status 🗘 Acti	ons
Channel Partners	۲	Tdin-h	s30		CPU: 2 MEMORY:	4GB DISK: 0GB		Pending	
🖋 Support	0	Tdin-h	s31 New Label Added		CPU: 2 MEMORY:	4GB DISK: 0GB		Pending	
	۰	Tdin-h:	s106		CPU: 1 MEMORY: 1	GB DISK: 100GB	May 02, 2016	ON	•
	٥	Tdin-h:	s110		CPU: 2 MEMORY: 2	2GB DISK: 80GB	May 03, 2016	OFF	•
Contact Us	0	Tdin-h:	s130		CPU: 1 MEMORY:	1GB DISK: 0GB		Pending Task Progress B	ar A



3 Click the name of the VM for which you want to view Analytics stats. The Server Detail screen displays.

	Server Detail											
Tdin	n-hs482							>_	U #	o l <b>t</b>	Ð	Ō
CPU 1	MEMORY DISK 1GB 4100B	Product : Tdin Label : <i>Click h</i> Order ID : 662 Creation Date	hs190 Template ere to add label ) : September 29, 2016				IP Address(s) : 10.1.0.166 No. of Supplementary Disks : 6 Network(s) :10.1.0.0/23 Port(s) : 0					P N
Disk						Netwo	ork					
Sr No.	Disk Label	Size	Status			Sr No.	Network			IP Address		
1	Primary Disk	80 GB	Completed	0		1	Tdinclnc-1668-pg(10.1.0.0	/23)		10.1.0.166		0
2	DISK1	50 GB	Completed	0								
3	DISK2	60 GB	Completed	0								
4	DISK3	100 GB	Completed	0								
5	DISK4	50 GB	Completed	0								
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Activit	y Logs Machine S	itats Monito	ing & Alerts									
shahzad_gu	ultest@dincloud.com created	vm alert (VM Name	r: Tdin-hs485) at Oct. 0	5, 2016, 01:5	2 PM (UTC)	)						
shahzad_gu	ultest@dincloud.com created	vm alert (VM Name	e: Tdin-hs485) at Oct. 0	5, 2016, 11:1	9 AM (UTC)	)						

4 Click the Machine Stats tab, and then click the Historical Stats tab.





The Historical Stats display under the Machine Stats tab.

- 5 The following historical stats are displayed:
  - CPU utilization
  - Memory utilization
  - Network In/Out statistics
  - Disk utilization (total)
  - Disk IOPS



- 6 By default historical data of the latest 30 minutes are displayed. You can change this setting by selecting one of the following time period ranges from the **Time Period** drop-down:
  - Last 30 minutes
  - 3 Hours
  - 6 Hours
  - 12 Hours
  - 24 Hours
  - 7 Days
  - 15 Days.



To refresh the stats and graphs currently displayed, click [Refresh Stats].

## Chapter 3 Working with dinManage Monitoring

### **Creating a New Alert**

To create a new alert for a VM, you will be required to perform the following steps:

1 Using a supported browser, log in to your dinManage account.

The dinManage Homepage displays.

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My Cloud	My Dashboard	My H√Ds	My Servers	My Li	orary My (	Deprovisioned	My Security	My Tools
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Order History	_	3		10	1	5	11	1
My Reports		dinHVD		winServer	Public IP	Private IP(subnet)	Power ON	Power OFF
My Account		0	Δ	1	1	1	5	2
Channel Partners		webHVD		linServer	VPN	Port Rules	Pending Setup	Deprovisioned
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2 Click **My Servers** tab if the relevant VM is a server machine, or click **My HVDs** if the VM is listed as an HVD.



In either case a list of VMs displays.

ainCloud 🚺		<b>イ</b> U:	S-West *	PRODUCTS & SERVICES	MY CLOUD -	FAQS 🌲 Sha	hzad Gul 👻 SIGN OUT
My Servers						(	2 CART - CHECKOUT
My Cloud	My Dashboard	My HVDs	My Servers	My Library	My Deprovisioned	My Security	My Tools
OC Place Order	My Servers						Assign VM to Group
<ul> <li>Order History</li> <li>My Reports</li> </ul>	Show 25 • entries F	ilter All	•			Search	¢]
My Account	Name		<ul> <li>Spec</li> </ul>	fications	0	Creation Date	Status 🗘 Actions
Channel Partners	💿 🧧 Tdin-hs30			CPU: 2 MEMORY: 4	GB DISK: 0GB		Pending
<ul> <li>Support</li> </ul>	O Tdin-hs31 /	Vew Label Added		CPU: 2 MEMORY: 4	GB DISK: 0GB		Pending
	O Tdin-hs106			CPU: 1 MEMORY: 10	DISK: 100GB	May 02, 2016	ON 🛞 👻
	Tdin-hs110			CPU: 2 MEMORY: 2	GB DISK: 80GB	May 03, 2016	OFF 💿 👻
	🔘 📕 Tdin-hs130			CPU: 1 MEMORY: 1	GB DISK: OGB		Pending
	<u>^</u>						Task Progress Bar ^

3 Click the name of the VM for which you want to create a new alert. The Server Detail screen displays.

	Server Detail											
Tdir	n-hs482						>_	] U	Ð	ĴŢ	æ	ē
CPU 1	MEMORY DISK 1GB 410GB	Product : Tdin Label : <i>Click I</i> Order ID : 662 Creation Date	hs190 Template ere to add label 0 : September 29, 2016				IP Address(s) : 10.1.0.166 No. of Supplementary Disks : 6 Network(s) :10.1.0.0/23 Port(s) : 0					<mark>Э</mark> ИС
Disk						Netw	ork					
Sr No.	Disk Label	Size	Status			Sr No	. Network		IP A	idress		
1	Primary Disk	80 GB	Completed	0		1	Tdinclnc-1668-pg(10.1.0.0/23	)	10.1	0.166		0
2	DISK1	50 GB	Completed	0								
3	DISK2	60 GB	Completed	0								
4	DISK3	100 GB	Completed	0								
5	DISK4	50 GB	Completed	0								
-	DIOVE	20.00	A	•								
Activit	y Logs Machine Sta	ats Monito	ring & Alerts									
shahzad_gu	ultest@dincloud.com created v	rm alert (VM Nam	e: Tdin-hs485) at Oct. 05	, 2016, 01:53	2 PM (UTC	C)						
shahzad_gu	ultest@dincloud.com created v	rm alert (∨M Nam	e: Tdin-hs485) at Oct. 05	, 2016, 11:19	AM (UTC	>)						

4 Click the **Monitoring & Alerts** tab, and then click [Add Alert].



The Create Alert dialog displays.

Activity Logs	Machine Stats	Monitoring & Alerts							
Create Alert									×
Please fill in the in	formation below to cr	eate your custom Trigger	Alerts for the desire	d machine.					
When the ave	erage : Select	۲ 🕞	Is: Select •	%	For cor	secutive :	Select	•	
🔲 the	n send an email to				after every :	00 H 🔻	00 M	T D	
		Note: Multiple email address	es may be added by sep	arating with commas.					
🔲 Tak	e an action : Select								
			Creat						
			Creat						

- 5 Select or enter the following information to configure the new alert:
  - When the average: select the element which needs to be monitored
  - Is: select operator and percentage value
  - **For consecutive**: select the period after which alert should be resent if the state remains unchanged
  - **Then send an email to:** select checkbox if required, and then enter email address(es) to receive alerts
  - After every: select the period after which an alert is to be triggered
  - **Take an action**: select checkbox if required, and then select the relevant action from the drop-down.
- 6 Click [Create] to create and enable the newly configured alert.

### **Working with Existing Alerts**

To perform operations on existing alerts, such as edit, disable, or remove an alert, you will be required to perform the following steps:

1 Using a supported browser, log in to your dinManage account.



The dinManage Homepage displays.

🚺 dinCloud		1	US-West	• PRODU	CTS & SERVICES +	MY CLOUD -	FAQS Shahzad Gu	al 👻 SIGN OUT		
My Dashboard								O CART		
My Cloud	My Dashboard	My HVDs	My Servers	My Lit	orary My	Deprovisioned	My Security	My Tools		
0° Place Order	D My HVDs	3	My Servers	11	🔘 My Se	ecurity	Machin			
Order History		3		10	1	5	11	1		
My Reports		dinHVD		winServer	Public IP	Private IP(subnet)	Power ON	Power OFF		
My Account		0	Δ.	1	1	1	5	2		
Channel Partners		webHVD	-	linServer	VPN	Port Rules	Pending Setup	Deprovisioned		
9 Support	My Documer	ıts	Public Docum	ents	B Recei	nt Activities				
	<ul> <li>Word File</li> <li>OA Testing Document</li> </ul>		updated 2 month	h(s) ago	dinCloud Support p AM (UTC)	owered on virtual machine	(VM Name:Tdin-hd8) at Ma	ar. 08, 2016, 08:01		
	New document		updated 1 year(s) and 4		dinCloud Support remote consoled into virtual machine (customer ID:1690) at Mar. 08, 2016, 07:47 AM (UTC)					
	URL Format		updated 1 yea	er(s) and 4	dinCloud Support ordered virtual machines (Order ID:6111) at Mar. 08, 2016, 07:46 AM (UTC)					
								View Mc		

2 Click **My Servers** tab if the relevant VM is a server machine, or click **My HVDs** if the VM is listed as an HVD. In either case a list of VMs displays.

ainCloud 💽		1	US-West *	PRODUCTS & SERVICE	S - MY CLOUD -	FAQS 🌲 Sh	ahzad Gul 👻 📘	IGN OUT
My Servers							2 CART -	CHECKOUT
My Cloud	My Dashboard	My HVDs	My Servers	My Library	My Deprovisioned	My Security	My 1	ools
S Place Order	D My Serv	ers					Assign VM	to Group
Order History  My Reports	Show 25 • entries	Filter All	•			Searc	h:	
My Account	Name		spe	cifications		Creation Date	🗘 Status 🗘	Actions
Channel Partners	💿 📫 Tdin	-hs30		CPU: 2 MEMORY:	4GB DISK: 0GB		Pending	
🖌 Support	Tdin	-hs31 New Label Added		CPU: 2 MEMORY:	4GB DISK: 0GB		Pending	
	o 📑 Tdin	-hs106		CPU: 1 MEMORY: 1	GB DISK: 100GB	May 02, 2016	ON	© •
	o 📫 Tdin	-hs110		CPU: 2 MEMORY: 2	2GB DISK: 80GB	May 03, 2016	OFF	۵ •
	💿 📫 Tdin	-hs130		CPU: 1 MEMORY:	1GB DISK: 0GB		Pending	
Contact Us	^						Task Progr	ess Bar 🔨

3 Click the name of the VM for which you want to create a new alert.



#### The Server Detail screen displays.

	Server Detail											
Tdin	-hs482							>-	ຄ	Jt	Ð	Ō
CPU 1	MEMORY DISK 1GB 410GB	Product : Tdin Label : <i>Click I</i> Order ID : 662 Creation Date	hs190 Template ere to add label ) : September 29, 2016				IP Address(s) : 10,1.0.166 No. of Supplementary Disks : Network(s) :10.1.0.0/23 Port(s) : 0	6				P NC
Disk						Netwo	ork					
Sr No.	Disk Label	Size	Status			Sr No.	Network		IP Ad	Idress		
1	Primary Disk	80 GB	Completed	0		1	TdincInc-1668-pg(10.1.0	0.0/23)	10.1	0.166		0
2	DISK1	50 GB	Completed	0								
3	DISK2	60 GB	Completed	0								
4	DISK3	100 GB	Completed	0								
5	DISK4	50 GB	Completed	0								
· ·	DIOLS	20.00	0									
Activity	/ Logs Machine St	ats Monito	ring & Alerts									
shahzad_gu	iltest@dincloud.com created	vm alert (VM Nam	: Tdin-hs485) at Oct. 05	, 2016, 01:53	2 PM (UTC	C)						
shahzad_gu	iltest@dincloud.com created v	vm alert (VM Name	e: Tdin-hs485) at Oct. 05	, 2016, 11:19	AM (UTC	;)						

#### 4 Click the Monitoring & Alerts tab.

The list of existing alerts display.

Activity Logs Ma	chine Stats Mor	hitoring & Alerts					
Trin	Condition	Man in a	Condition I conth	Oracl Empile	Antina	Orthur	Add Ale
ingger	Condition	warning	Condition Length	Send Email	Acuon	Status	
Drive C utilization	below	5 %	10 min	No	reboot	Enabled	ې 🕈
Network IN speed	above	59000 Mb/Sec	10 min	Yes	poweroff	Enabled	\$\$
CPU utilization	above	60 %	10 min	No	reboot	Ena Disable	d Alert
Memory utilization	below	10 %	15 min	No	poweroff	Ena Remove	t Alert
Memory utilization	above	70 %	15 min	No	reboot	Enabled	(i) <b>v</b>

- 5 Review the following information about each alert:
  - Trigger: displays the element of the VM that is to being monitored
  - **Condition**: displays the condition upon which the alert shall be triggered
  - **Warning**: displays the value of the element, over or under which the alert shall be triggered



- **Condition Length**: displays the period for which the condition shall need to apply for the alert to be triggered
- Send Email: shows if an alert email is configured to be sent
- Action: displays the action that is executed when alert condition is met
- **Status**: displays if an alert is enabled or disabled.
- 6 You can also perform the following operation on an alert using the **Actions** button:
  - Enable or Disable Alert
  - Edit Alert
  - Remove Alert.
- 7 Click [Create] to create and enable the newly configured alert.

### **Important Notes**

- 1 Users are not allowed to create an alert of a monitoring element, with the same utilization threshold, twice. For example, CPU utilization with a 75% threshold may not be created twice.
- 2 Users are able to select both, or either of the Action options.
- 3 Users are allowed to create and apply up to 6 alerts for each virtual machine.