

Honeywell Remote Management

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HRM OVERVIEW

Honeywell Remote Management (HRM) tool will undertake several automated checks on the server, and workstation status will be run using an automated network monitoring tool.

The tool will centrally capture and analyze key event information relating to the underlying ICT infrastructure and systems to provide an overall health status of the system and better direct technicians' reactive and preventative maintenance activities.

In some cases, the tool can alert technicians to problems before they cause an outage and before we would have normally been able to identify the problems manually. A key benefit of the tool is the earlier identification of actual and potential server problems.

From a preventative maintenance perspective, the tool will monitor key events to minimize the amount of manual routine preventative maintenance checks that need to be done.

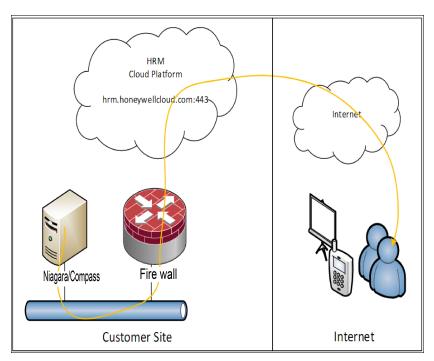


Fig. 1 HRM Overview

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WHAT YOU NEED

Local / Domain Admin

Create an account on device local Users and Group or in the client's Active Directory that is part of the Domain Admins group (i, e., Local System administrative privileges) and a password that never expires. We will give this account to run the Windows Probe during installation to allow for Agent install and a host of other functions.

Probe Device

A probe /agent is a software component that resides on a host within a customer's network, behind their firewall or private IP space. Probes provide monitoring and management services for devices on that private network.

The probe should be installed on a host which is protected, ideally a server that is not be constantly rebooted.

Devices

The devices that you want to monitor. This could be servers or client machines connected to the network.

Connectivity Requirement

All devices need to communicate with Honeywell Remote Management (HRM) server that is https://hrm.honeywell-cloud.com via port 443.

Please work with the customer IT to change firewall rules to allow the traffic.

LOG INTO HRM

You can use the credential information provided by the HRM admin team to log into HRM https://hrm.honeywell-cloud.com.

The username should be your Honeywell email address, and the password will be sent in a separate encrypted email.

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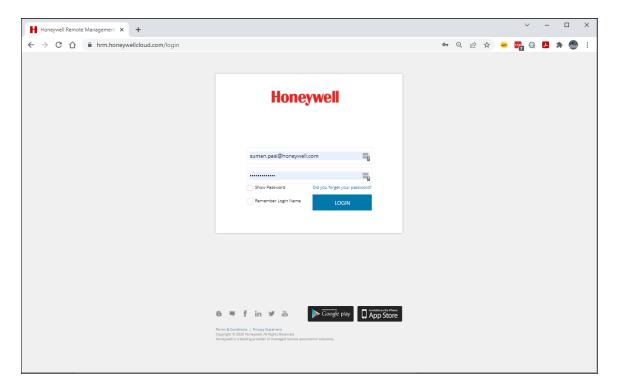


Fig. 2 HRM Login Page

We strongly recommend changing your password the first time you log on to HRM. You could click the link "Forgot password" to reset.

You could switch the customer you want to view by clicking the drop-down list.

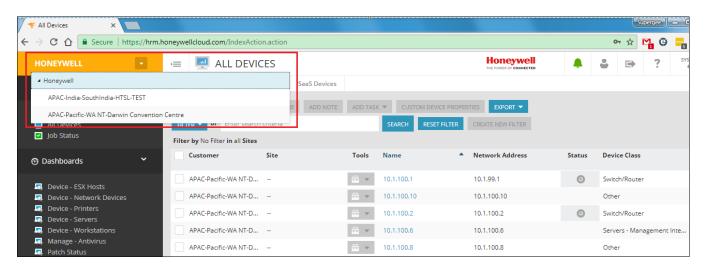


Fig. 3 HRM Page View

INSTALL WINDOWS PROBE

A software named "Probe" must be installed on the gateway server to allow HRM to discover devices on the network.

- 1. You need to access the HRM website (https://hrm.honeywellcloud.com).
- 2. Go to the customer you want to install Probe.
- 3. Click Actions > Download Agent/Probe.
- 4. Click the Windows Probe as circled below.

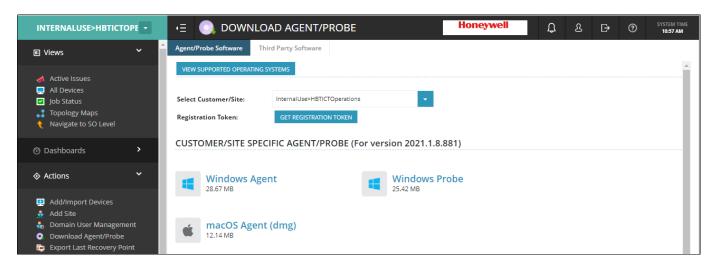


Fig. 4 Windows Probe Installation

Once the Probe software is downloaded, install it in the identified system for Probe communication. Use the default admin account or the specific admin account that was created for the Probe.

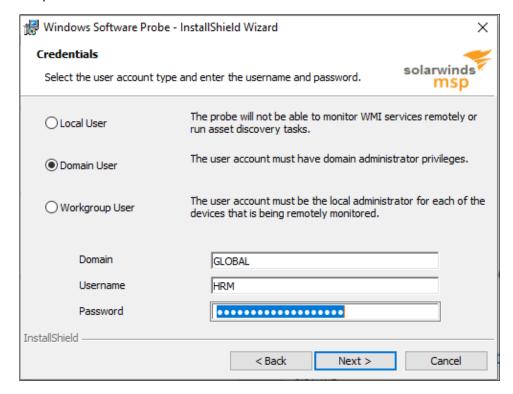


Fig. 5 Windows Software Probe

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Once the probe software is installed, verify that the system with a probe is listed in the N-central portal via **Administration** > **Probe**.

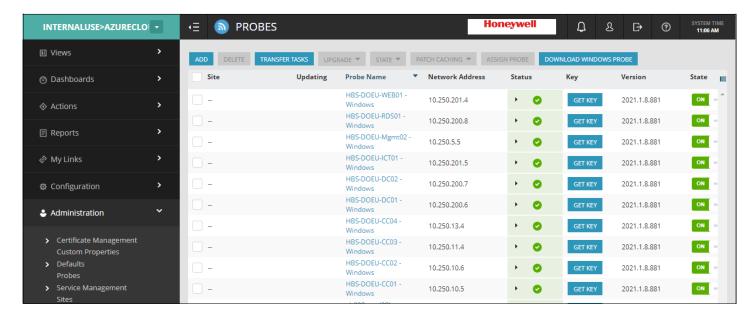


Fig. 6 N-central Portal

DEVICE DISCOVERY

The discovery job is used to detect/import the devices automatically, so you don't have to add devices manually in HRM.

1. You could run the discovery tasks via Actions > Run a Discovery.

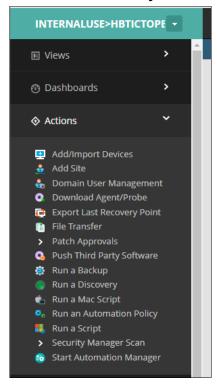


Fig. 7 Run a Discovery

You will be presented with the following display.

2. Fill in the IP range for the subnet you wish to discover or a single host address.

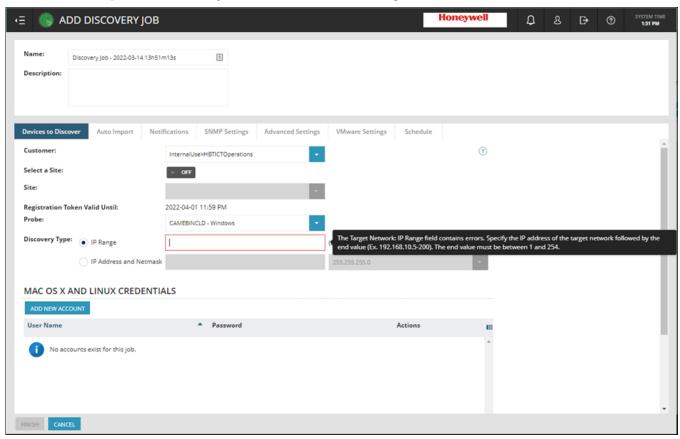


Fig. 8 To discover device

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3. Switch to the Auto Import setting and select the following.

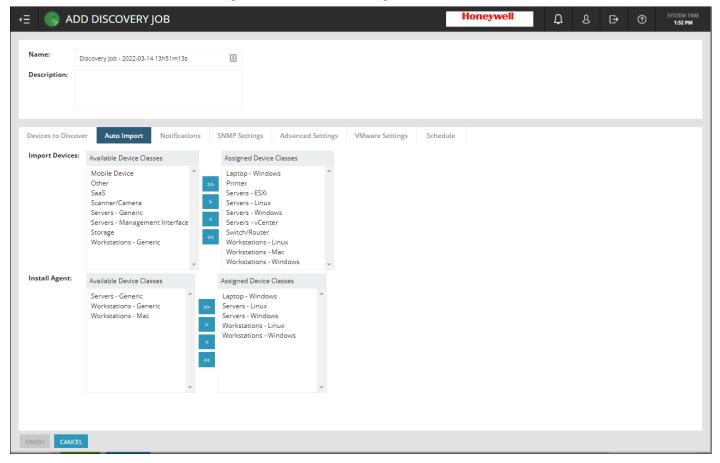


Fig. 9 Auto Import

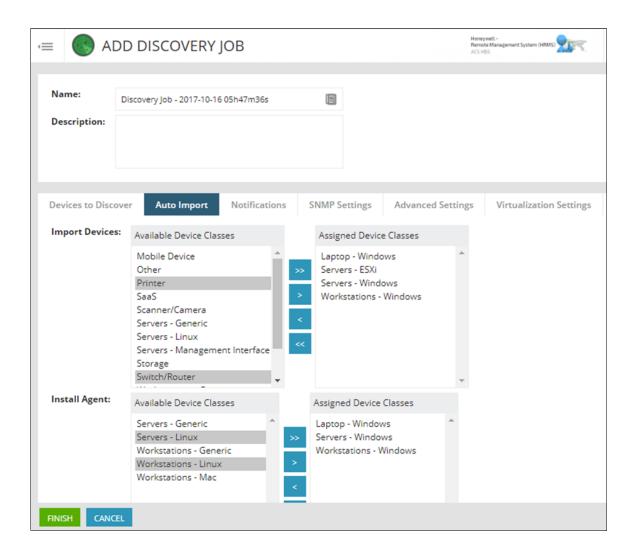


Fig. 10 Auto Import Devices

4. Click on **Finish**. This will schedule the discovery to run. This will normally take 10-30 minutes, depending on the number of devices you want to discover.

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5. Progress can be checked by selecting Configuration > Asset Discovery > Discovery Jobs.

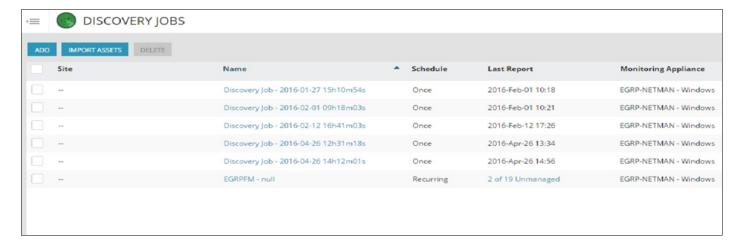


Fig. 11 To discover devices

6. Review the list of devices from Views > All Devices and remove the ones you don't want to monitor.

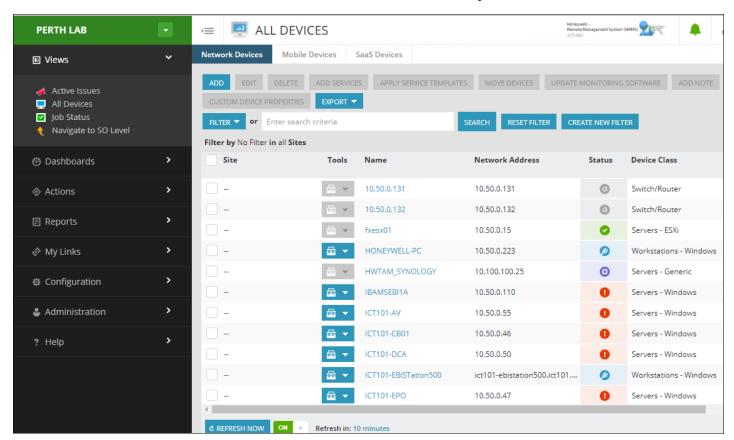


Fig. 12 Network Devices

INSTALL WINDOWS AGENT

If the domain admin account is not available, you need to manually install the Windows agent on each Windows machine to be monitored by HRM.

- 1. You need to access the HRM website (https://hrm.honeywellcloud.com).
- Go to the customer you want to set up.
- 3. Click Actions > Download Agent/Probe.
- 4. Click the Windows Agent as circled below.

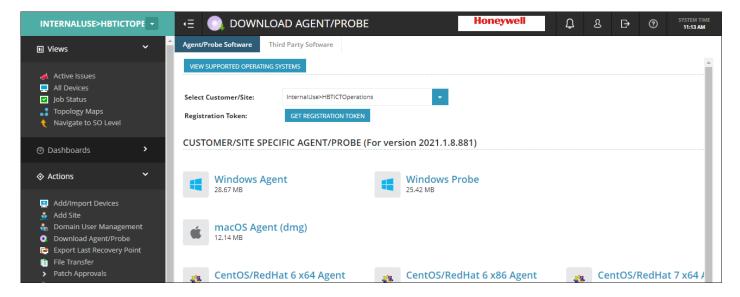


Fig. 13 Windows Agent Installation

Once the Windows Agent software is downloaded, install it on the Windows devices with the default setting. Change the Proxy setting appropriately if necessary and continue the installation.

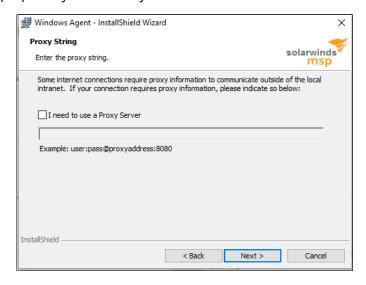


Fig. 14 Windows Agent Proxy Setting Window

The Agent version information can be found via Views > All devices when HRM detects it.

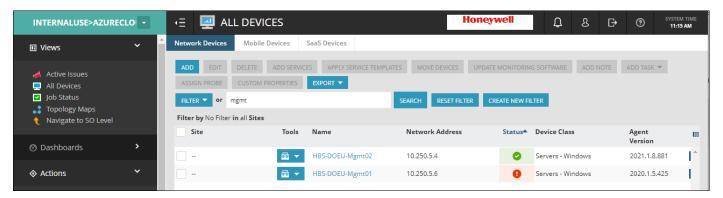


Fig. 15 All Devices

View Outstanding Issues

You could view the outstanding issues by navigating to Views > Active Issues.

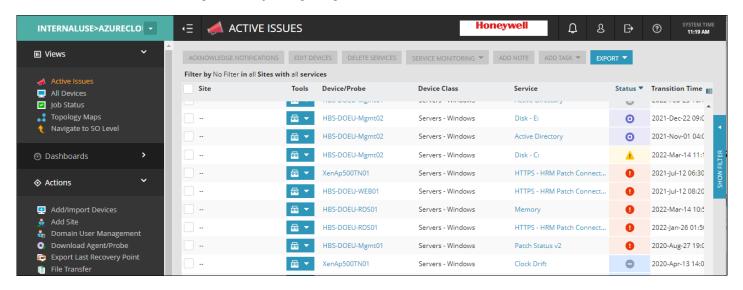


Fig. 16 Active Issues

If you have multi-customer access, you can go to Honeywell (SO level) to view all outstanding issues across all sites. The filter function is available as below to view the only specific site.

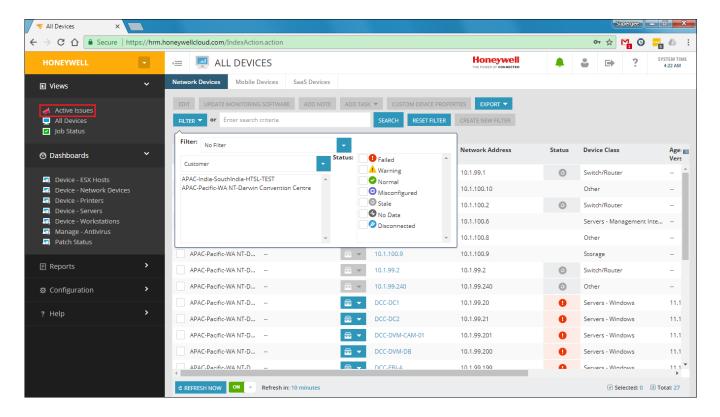


Fig. 17 To filter issues

Click the failure icon, then you can see the details about the failure.

View All Devices

To view the list of devices managed on your site, click Views > All Devices.

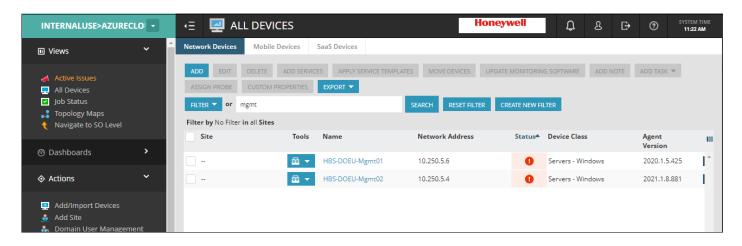


Fig. 18 To view all device

HRM PATCH MANAGEMENT

The Patch v2 Management module can effectively manage the downloading and installation of Microsoft and third-party software patches across your customers networks.

HRM Patch Management can automate processes related to patching or allow very granular control of every step. This can be done using Patch Approval Rules, Patching Maintenance Windows related to detecting, downloading, installing, and potential rebooting of devices.

- Patch Detection
- Patch Download
- Patch On-Demand
- Adding Patch installation Window
- Patch Reboot

Patch Detection

The Patch Detection Maintenance Window specifies when, and for how long, devices check for new updates and communicate this information to MSP HRM. This is important for workstations and servers hosted in virtual environments, where detection can result in cumulative loads and slower performance overall.

Adjust the frequency of maintenance windows to match the frequency of software patches. For example, you can reduce the detection frequency if a server is patched only monthly or quarterly. Also, consider that this process is also for Third-Party Software updates.

We have set up the patch detection windows for all Windows servers at 1 am every day via the rule "Window Server."

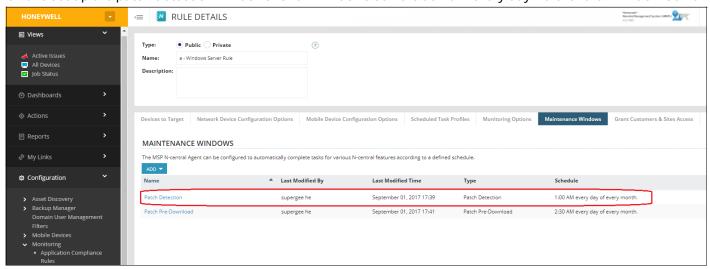


Fig. 19 Patch Detection

Patch Pre-download

The Pre-download Maintenance Window defines the period when you want to download approved patches to the device for installation. A best practice is to download at least two hours before you plan to install the patch to allow for sufficient time to obtain the installation packages.

The pre-download window is when the patches get downloaded, either via the Probe or directs to the Agent, depending on your Profile settings.

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We have set up the pre-download window at 2:30 am every day.

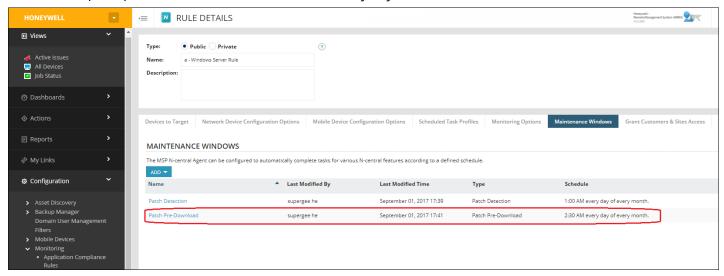


Fig. 20 Patch Pre-download

Patch on Demand

This is the recommended approach when you don't have the regular maintenance window agreed with the customer, or you want to apply critical patches urgently.

You can initiate a patch cycle on one or more devices outside your regular schedule or "On Demand." This lets you patch customers without a set install schedule and update outlying systems only available during random intervals. You can also include a reboot in the process.

Select your devices and initiate Patch On-Demand.

Select the device from all devices list > ADD TASK > Patch Management > Patch On Demand.

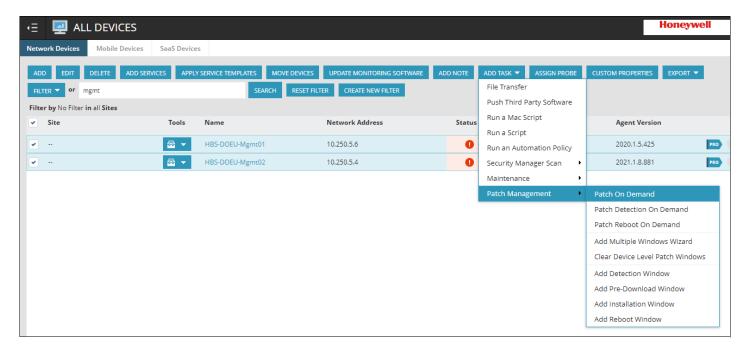
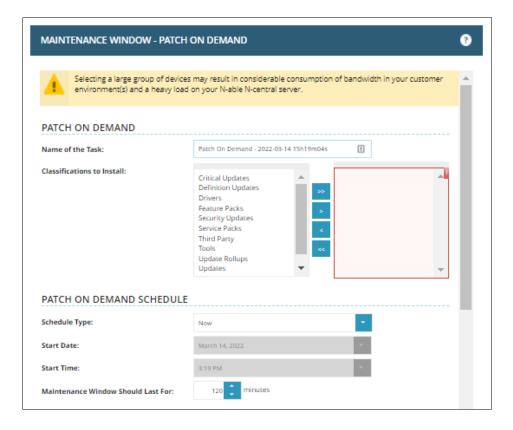


Fig. 21 Patch on Demand

A new patch on-demand window appears, update patch classifications window, select Patch On-demand window, update Reboot Options window, and click on **SAVE** to select Patch On-Demand.



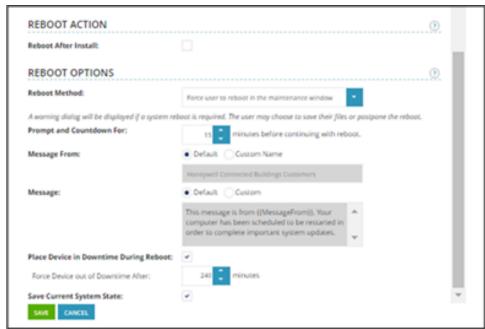


Fig. 22 Maintenance Window

Patch Installation Window

Patch installation windows allow the field professional to configure a pre-determined window for patches to automatically be applied. HRM can download, install and reboot the machines automatically without any intervention from the field professional.

1. Select the device from all devices list > ADD TASK > Patch Management > Add Installation Window.

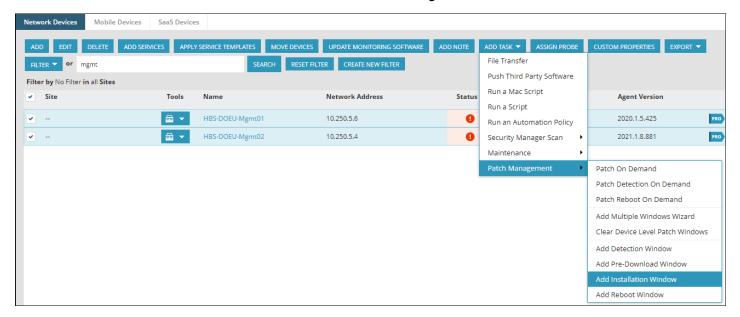
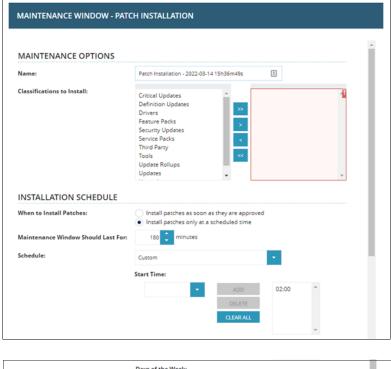


Fig. 23 Patch Installation Window

- 2. Now choose a name for the task or accept the default name.
- 3. Select the patch classifications for installation
- 4. Select "Install patches only at a schedule time."
- 5. Adjust the maintenance window duration if you have a long list of patches to be applied. It's 180 minutes by default.

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- 6. Setup the schedule based on the agreement with your customer.
- 7. Click Save.



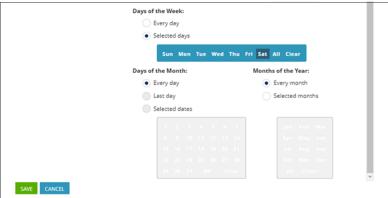


Fig. 24 Patch Installation Maintenance Window

Add Reboot Window

The Reboot Maintenance Window defines the period when the device can be rebooted. The reboot maintenance window will not be triggered if the server is not required to reboot after patch installation.

The reboot countdown timer gives the user a grace period to save files and close applications before the reboot occurs.

It's recommended that you leave enough time between patch installation and reboot windows to allow enough time for patches to be applied, for example, 3 hours.

hours.

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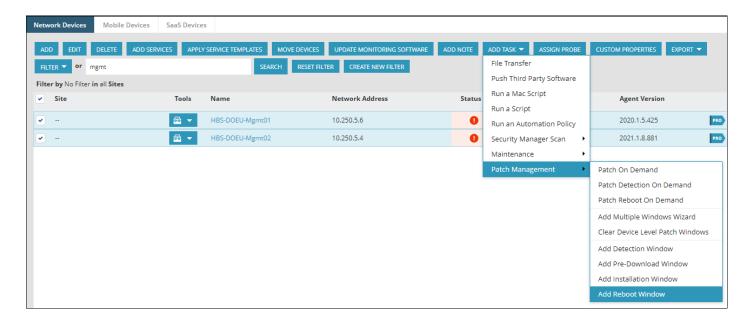
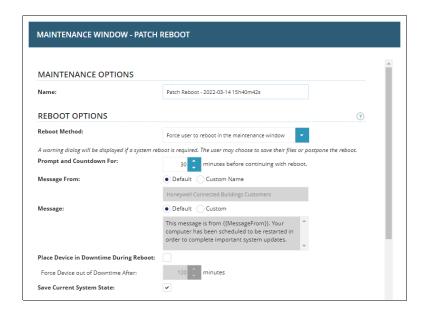


Fig. 25 Add Reboot Window

From the "All devices" option, select one or multiple devices from the device list.

Now select Add Task > Patch Management > Add Reboot Window.



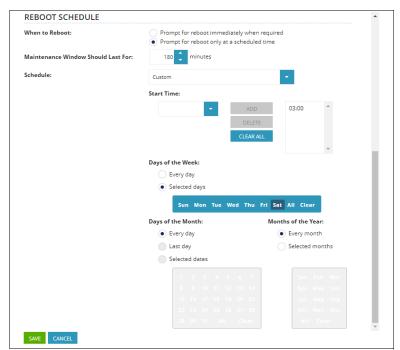


Fig. 26 Reboot Maintenance Window

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ICT TASKING

Here is the list of ICT tasks being monitored in HRM.

Windows Server Disk Performance

Select the "Monitoring" tab and click on the Disk I/O metrics.

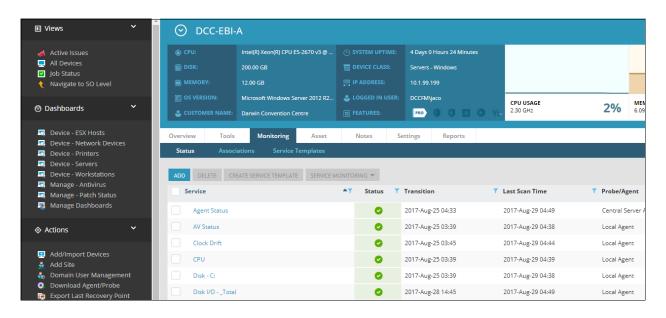


Fig. 27 Windows Server Disk Performance

Windows Disk Free Space

Select the "Monitoring" tab and click on the disk partition you would like to check to see the current disk usage metrics.

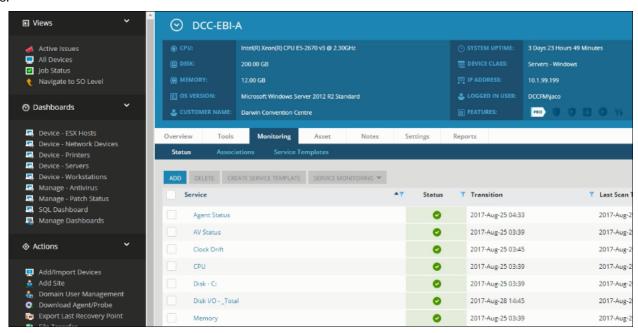


Fig. 28 Windows Disk Free Space

Windows CPU Utilization

Select the "Monitoring" tab and Click on CPU.

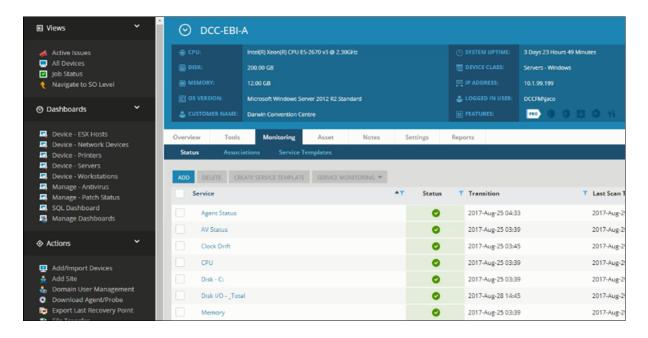


Fig. 29 Windows CPU Utilization

Windows Memory Utilization

Select the "Monitoring" tab and Click on Memory.

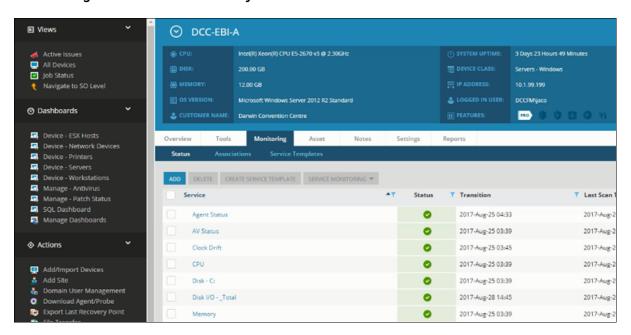


Fig. 30 Windows Memory Utilization

SQL Database Growth Rate

Select the "Monitoring" tab. User will see the available SQL Database Growth Check options for the database required. Select the required database options.

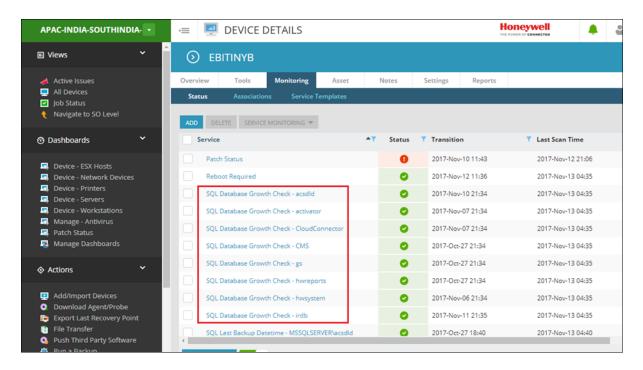


Fig. 31 Example of SQL Database Growth Rate Options

Active Directory Domain Services Monitoring

Select the "Monitoring" Tab and Click on the relevant Services Active Directory, DNS, Process Isass.exe, and the Windows Event Logs specifically to ADDS.

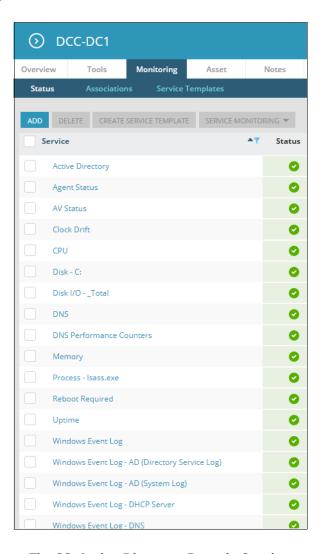


Fig. 32 Active Directory Domain Services

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Anti-Virus Agent and Update Status (includes McAfee MOVE)

Select the "Monitoring" tab and Click on "AV Status."

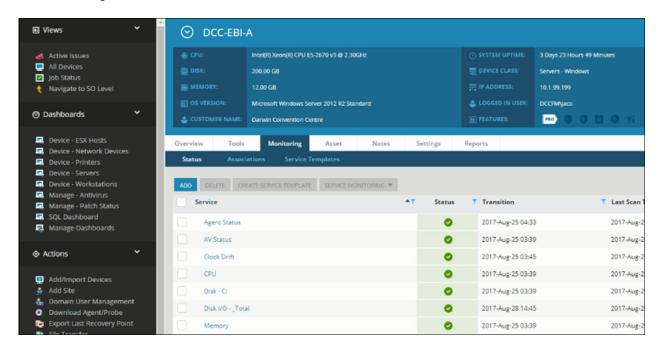


Fig. 33 AV Status

Backup Job / Copy Job Status / Duration

Select the "Monitoring" tab and Click on "Acronis backup with WMI" for Physical servers or "VEEAM JOB MONITOR" for virtual servers.

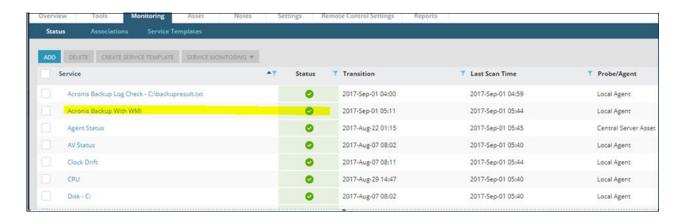


Fig. 34 Acronis backup with WMI

DVM Backup Status (Nightly Scripted Database Backup)

Select the "Monitoring" tab and Click on "SQL LAST BACKUP DATETIME - MSSQLSERVER\DVM."

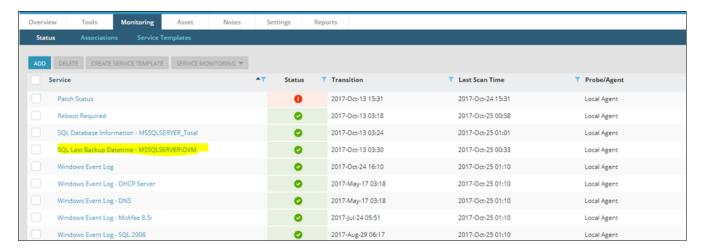


Fig. 35 DVM Backup Status

LUN (Virtual Disks) Free Space

Select the "Monitoring" tab and Click on "Datastore (VMware)."

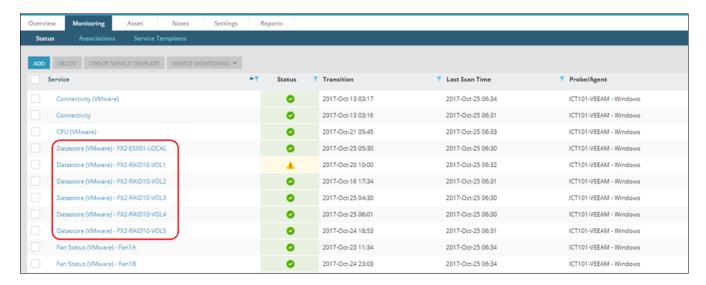


Fig. 36 LUN (Virtual Disks) Free Space

Windows Services (Start/Stop/Disabled)

Select the "Monitoring" tab and Click on "Windows Service - (service name)."

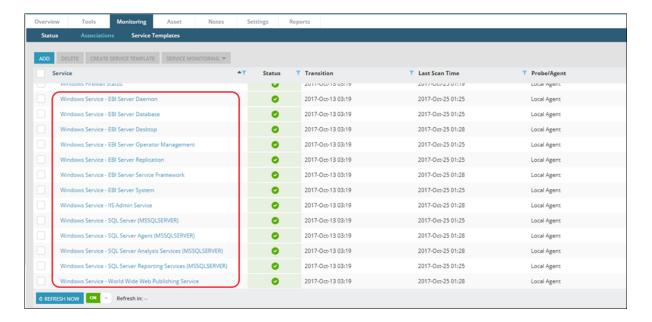


Fig. 37 Windows Services

Windows Firewall Status (Servers & Workstations)

Select the "Monitoring" tab and Click on "Windows Firewall Status".

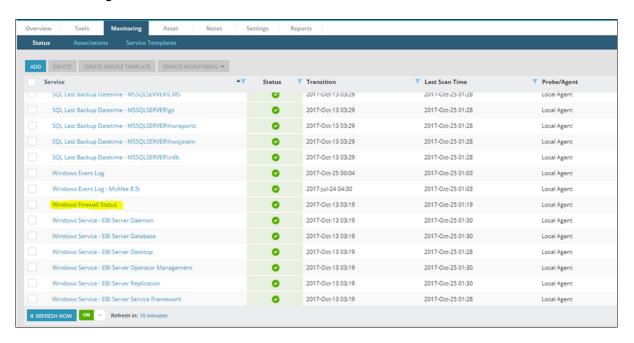


Fig. 38 Windows Firewall Status

Windows Updates / Patch Status

Select the "Monitoring" Tab and Click on "Patch Status".

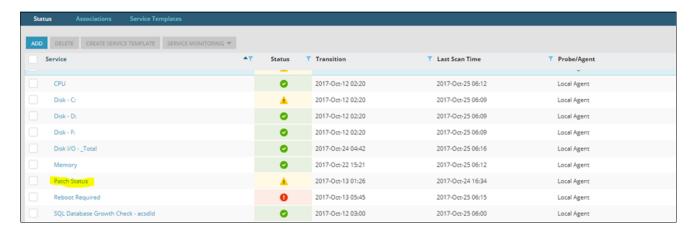


Fig. 39 Windows Updates

Monitor HRM agent status

Select the "Monitoring" Tab and Click on "Agent Status".

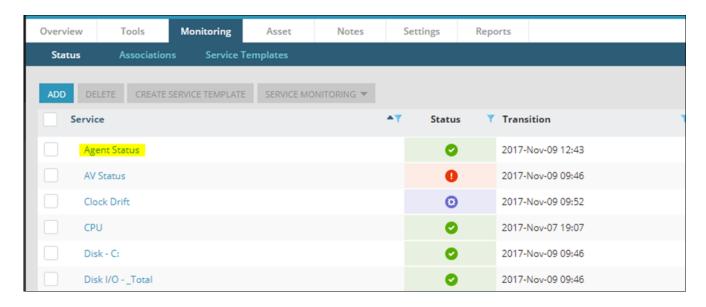


Fig. 40 HRM agent Status

Thresholds / Tuning for Monitoring Services

Threshold tuning is useful to configure the thresholds of service to show the results in the All Services tab.

On the device dashboard, go to "Active issues" to find the current issue with the C drive. Click "Disk – C:" to see the details.

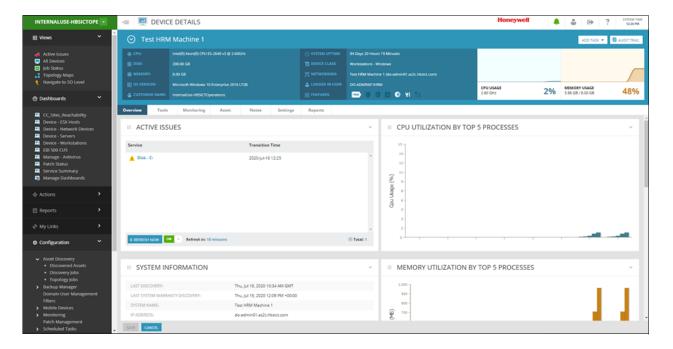


Fig. 41 Active Issues

This will load the service status page, where you will be able to see the service status details and configured thresholds.

You can see that the total capacity of the C drive is 200GB. 178 GB is currently being used, and free disk space is around 22 GB.

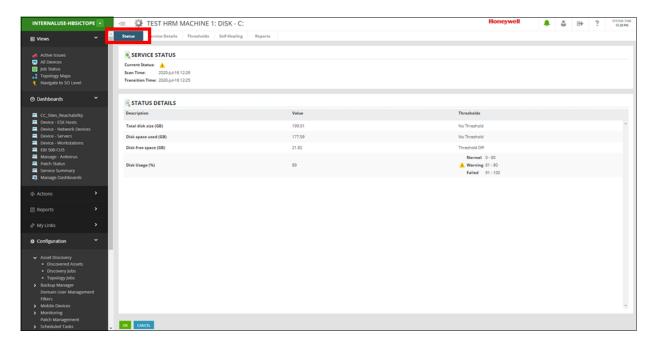


Fig. 42 Status Details

The "Thresholds" tab in HRM defines the threshold range that is, NORMAL, WARNING, and FAILED and triggers alerts/notifications that are sent to technicians via emails.

As the current thresholds are configured to report a warning status when disk space is greater than 61% utilization, it will report a warning status. If the disk exceeds 86% capacity, you will receive a failed status in the dashboard.

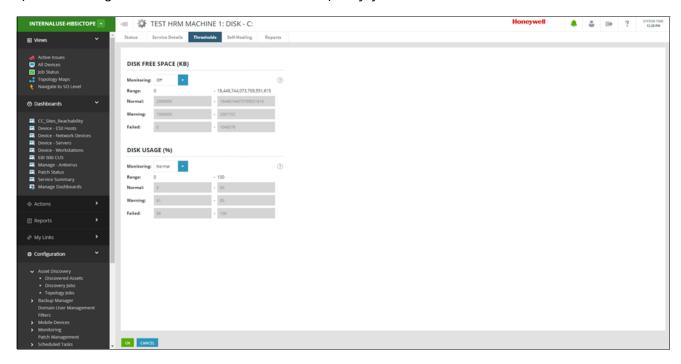


Fig. 43 Disk Space

To configure custom thresholds, change the "Monitoring" options from "Normal" to "Custom" using this option. We can also turn off monitoring for this device by selecting OFF. However this is not recommended unless the equipment is out of service or being maintained.

Changing the thresholds, in this case, will apply the following monitoring thresholds:

- Drive size between 0-85% utilization is within the normal range and will show in green color.
- Drive size between 86%–95% utilization is within warning range and will show in yellow color.
- Drive size above 96% utilization is within the failed range and will show in red color.

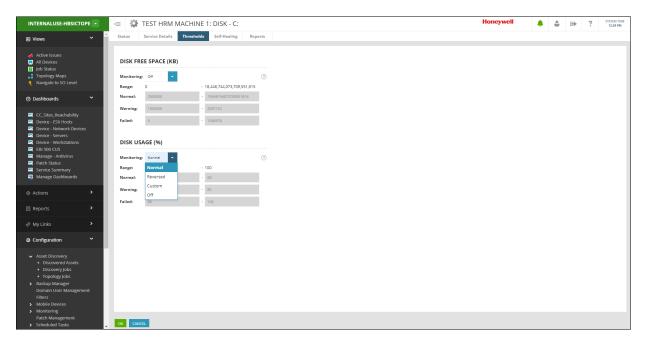


Fig. 44 Acronis backup with WMI

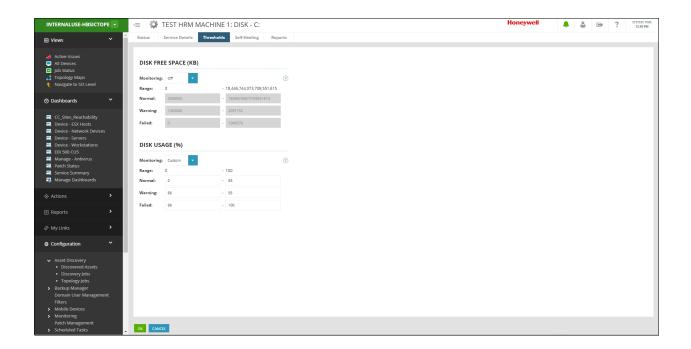


Fig. 45 Disk Usage

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