HOW TO ENABLE SCCM WAKE ON LAN CLIENT NOTIFICATION (1810+)

Microsoft released Current Branch 1810 last month. One of the new feature is Wake Up on Lan. You can find more information here

https://docs.microsoft.com/en-us/sccm/core/plan-design/changes/whats-new-in-version-1810

New client notification action to wake up devices

You can now wake up clients from the Configuration Manager console, even if the client isn't on the same subnet as the site server. If you need to do maintenance or query devices, you're not limited by remote clients that are asleep. The site server uses the client notification channel to identify another client that's awake on the same remote subnet. The awake client then sends a wake on LAN request (magic packet).

REQUIREMENTS:
Your computer hardware needs to support Wake on LAN. This means a compatible BIOS and network card. Not every computer is automatically able to use Wake on LAN but chances are good that you are fine if it's not too old (10 years and less).

First, you need to make sure that Wake on LAN is enabled in the BIOS of your client computer.

Since there are many different BIOS vendors, I can't guide you for all model types. Usually, you'll find this option under **Power** option or **Advanced Settings**

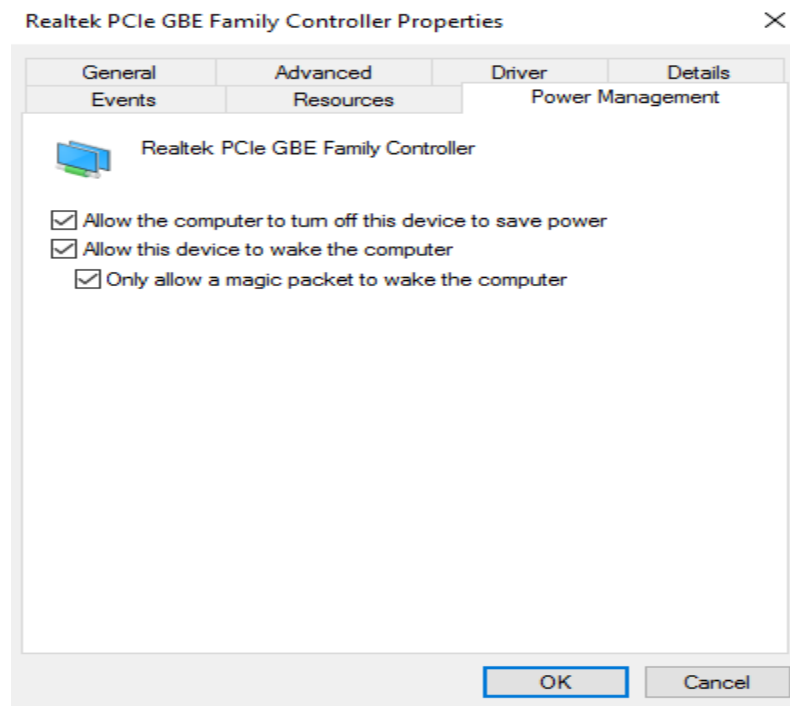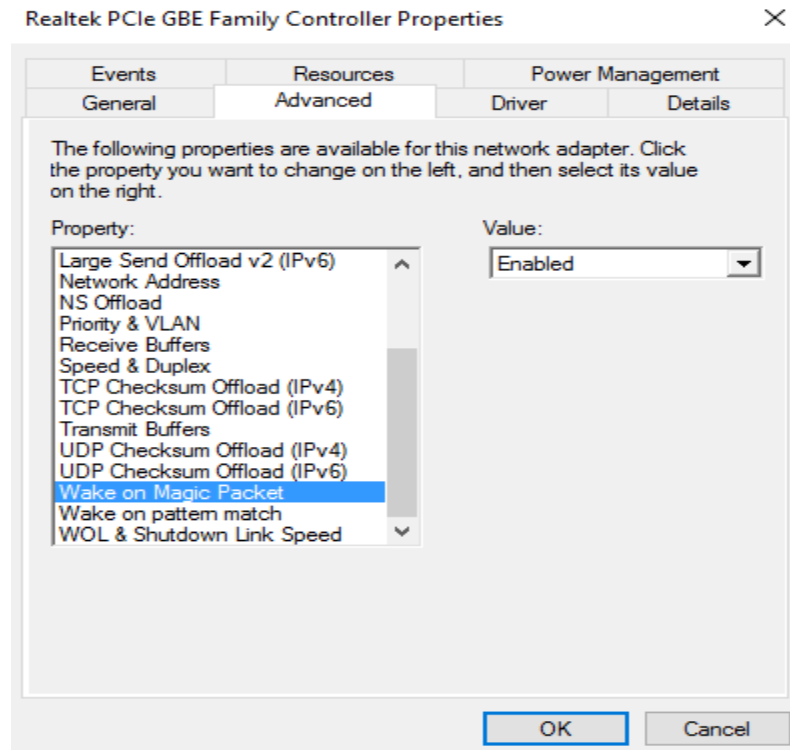Look for Wake-On-LAN or Power On by PCIe/PCI
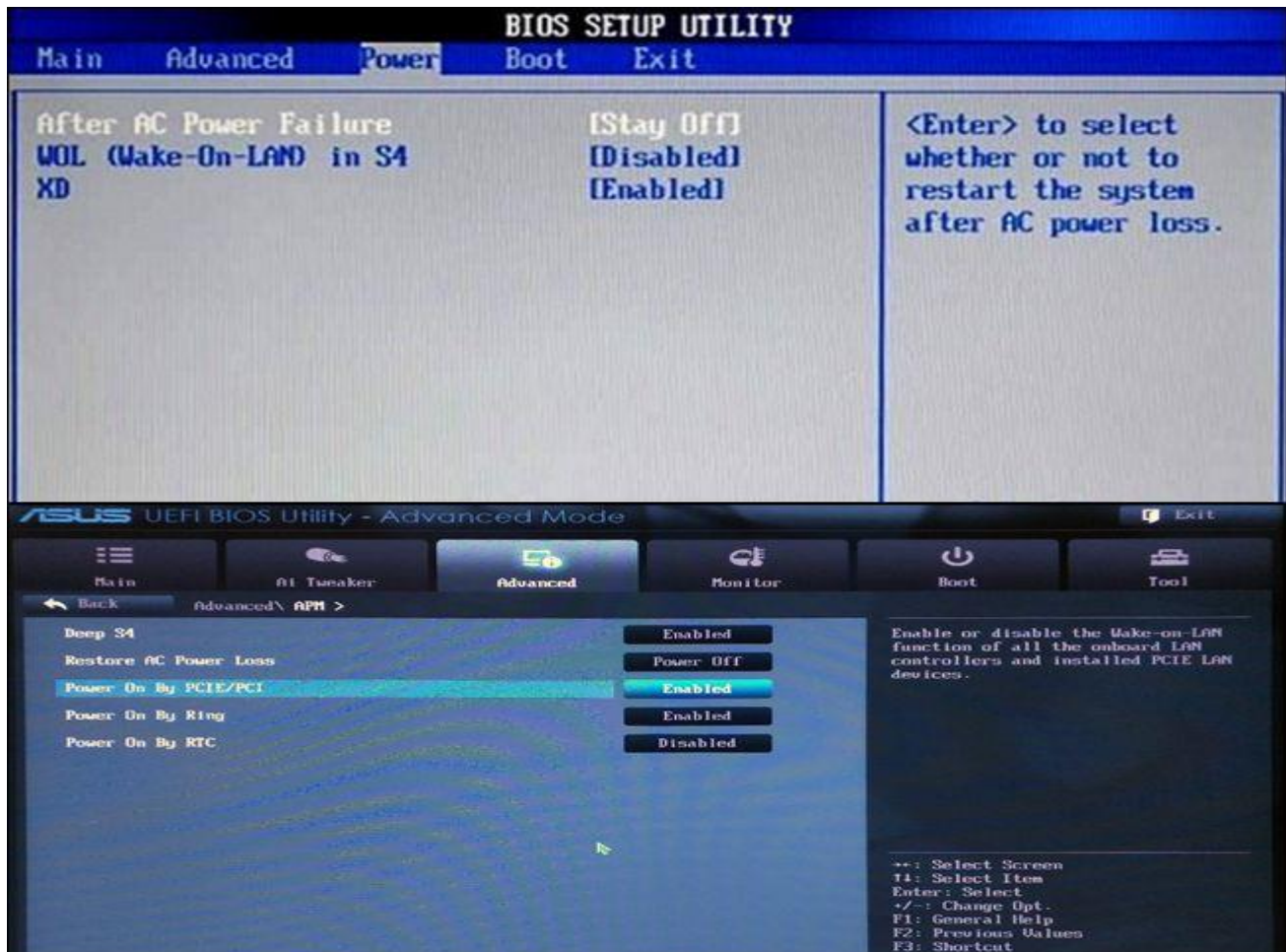
WINDOWS DEVICE MANAGER

Once the option is enabled in the BIOS, you need to enable it in the Network Card Properties

Go to Device Manager

Find your network card, right-click Properties
In the Advanced tab, find Wake on LAN Magic Packet, set it to Enabled

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Realtek PCIe GBE Family Controller Properties   ✕

Events	Resources	Power Management
General	Advanced	Driver	Details

The following properties are available for this network adapter. Click the property you want to change on the left, and then select its value on the right.

Property:

Large Send Offload v2 (IPv6)
Network Address
NS Offload
Priority & VLAN
Receive Buffers
Speed & Duplex
TCP Checksum Offload (IPv4)
TCP Checksum Offload (IPv6)
Transmit Buffers
UDP Checksum Offload (IPv4)
UDP Checksum Offload (IPv6)
Wake on Magic Packet
Wake on pattern match
WOL & Shutdown Link Speed

Value:

Enabled

OK   Cancel

Realtek PCIe GBE Family Controller Properties   ✕

General	Advanced	Driver	Details
Events	Resources	Power Management

Realtek PCIe GBE Family Controller

☑ Allow the computer to turn off this device to save power
☑ Allow this device to wake the computer
    ☑ Only allow a magic packet to wake the computer

OK   Cancel

Now we are ready to configure the feature on Current Branch 1810 (Primary Site). Please note you cannot enable this feature on CAS (Central Administration Site).

Open Configuration Manager Console – Go to Administration

Toronto HQ Site Properties ✕
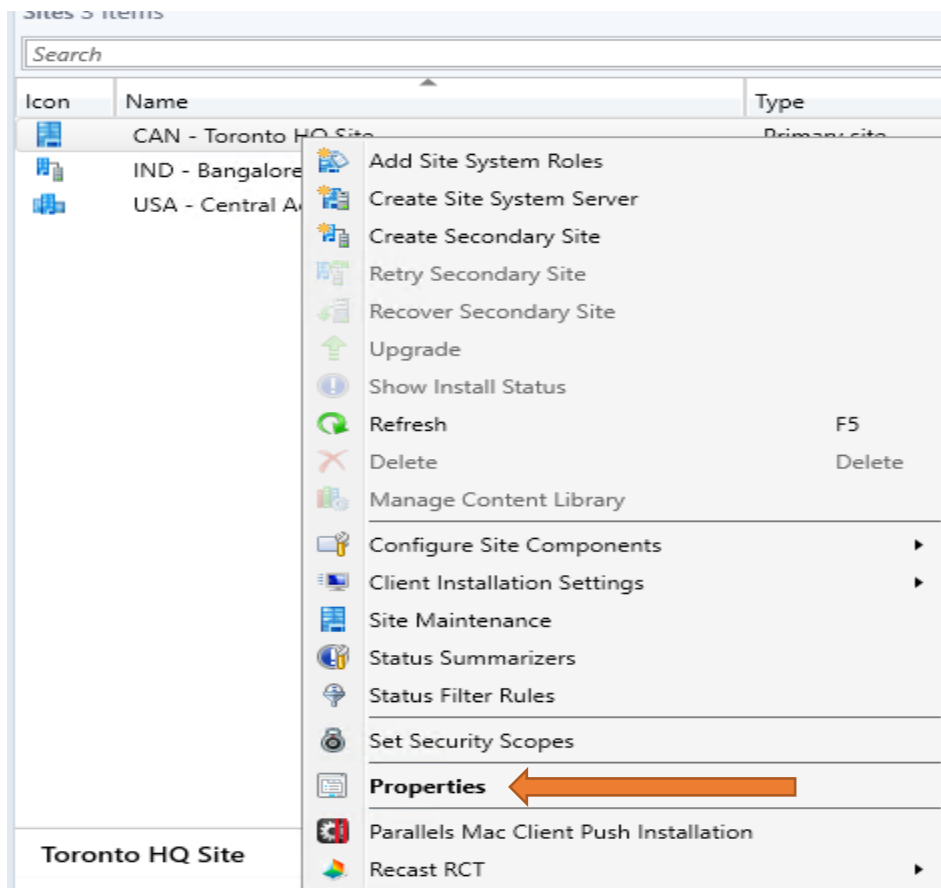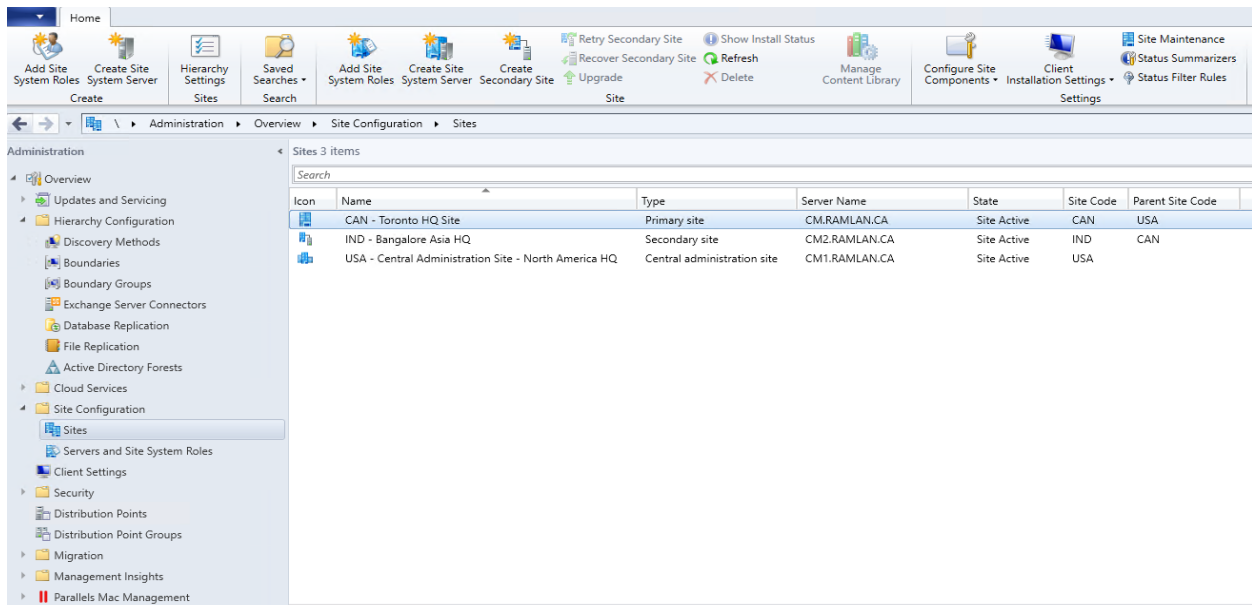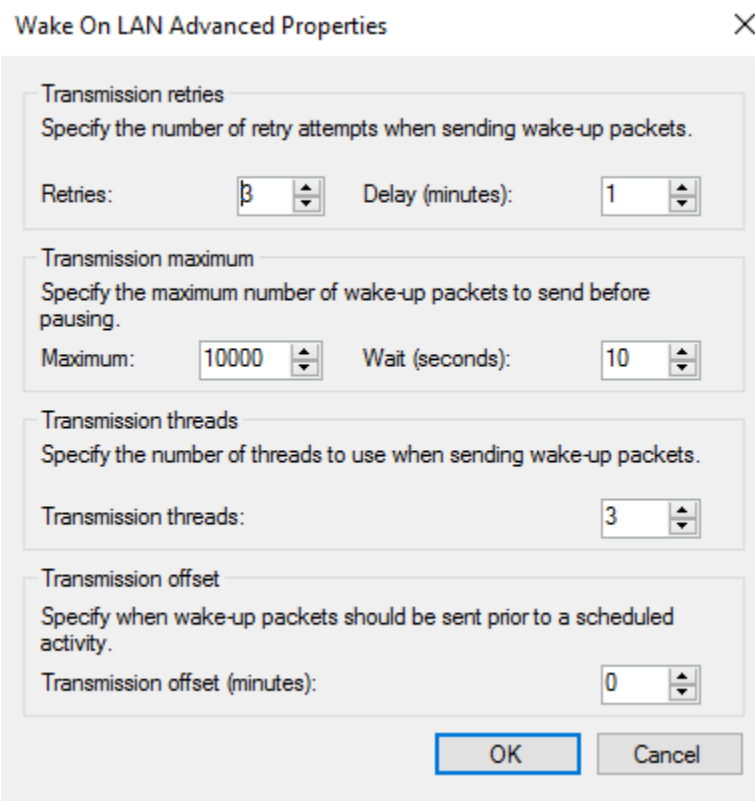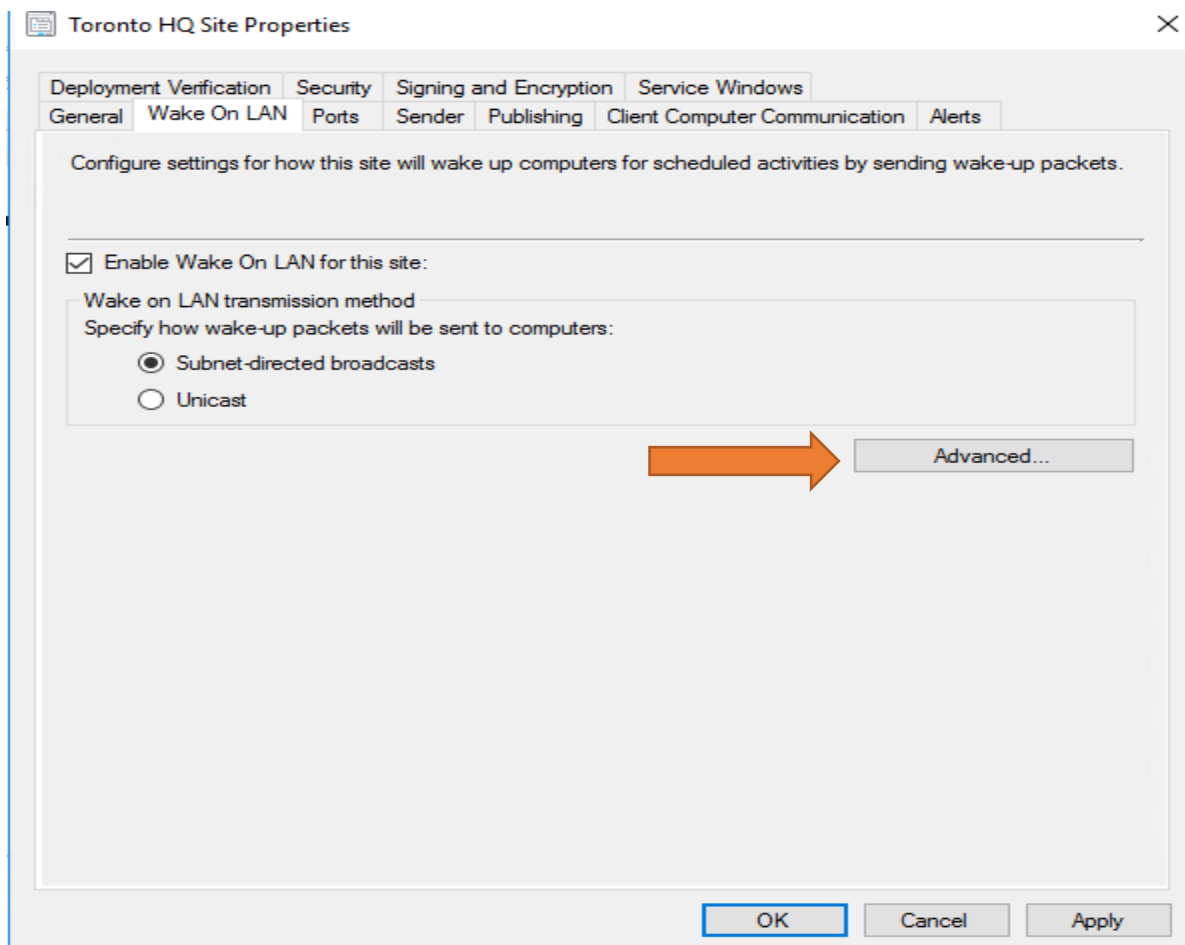
Deployment Verification | Security | Signing and Encryption | Service Windows
General | Wake On LAN | Ports | Sender | Publishing | Client Computer Communication | Alerts

Configure settings for how this site will wake up computers for scheduled activities by sending wake-up packets.

☑ Enable Wake On LAN for this site:

Wake on LAN transmission method
Specify how wake-up packets will be sent to computers:

◉ Subnet-directed broadcasts
◯ Unicast

[Advanced...]

[OK] [Cancel] [Apply]

Wake On LAN Advanced Properties ✕

Transmission retries
Specify the number of retry attempts when sending wake-up packets.

Retries: [3] Delay (minutes): [1]

Transmission maximum
Specify the maximum number of wake-up packets to send before pausing.

Maximum: [10000] Wait (seconds): [10]

Transmission threads
Specify the number of threads to use when sending wake-up packets.

Transmission threads: [3]

Transmission offset
Specify when wake-up packets should be sent prior to a scheduled activity.

Transmission offset (minutes): [0]

[OK] [Cancel]

After you enable these are the logs to look for any issues.

In the SCCM Installation directory \ Logs :

- **Wolmgr.log** – *Contains information about wake-up procedures such as when to wake up advertisements or deployments that are configured for Wake On LAN.*
- **WolCmgr.log** – *Contains information about which clients need to be sent wake-up packets, the number of wake-up packets sent and retired*

TESTING ON CLIENTS

We are now ready to test the feature on a computer. You need to have at least 1 online computer on the same subnet than the offline computer. SCCM will use Client notification on the online computer to send magic packet to the offline computer.

Go to your collection and find your offline computer. Important: The machine needs to be an SCCM client

Right-click on it, select Client Notification / Wake up

I took this screen shot from Microsoft site as, I did not have a physical machine to perform the test.
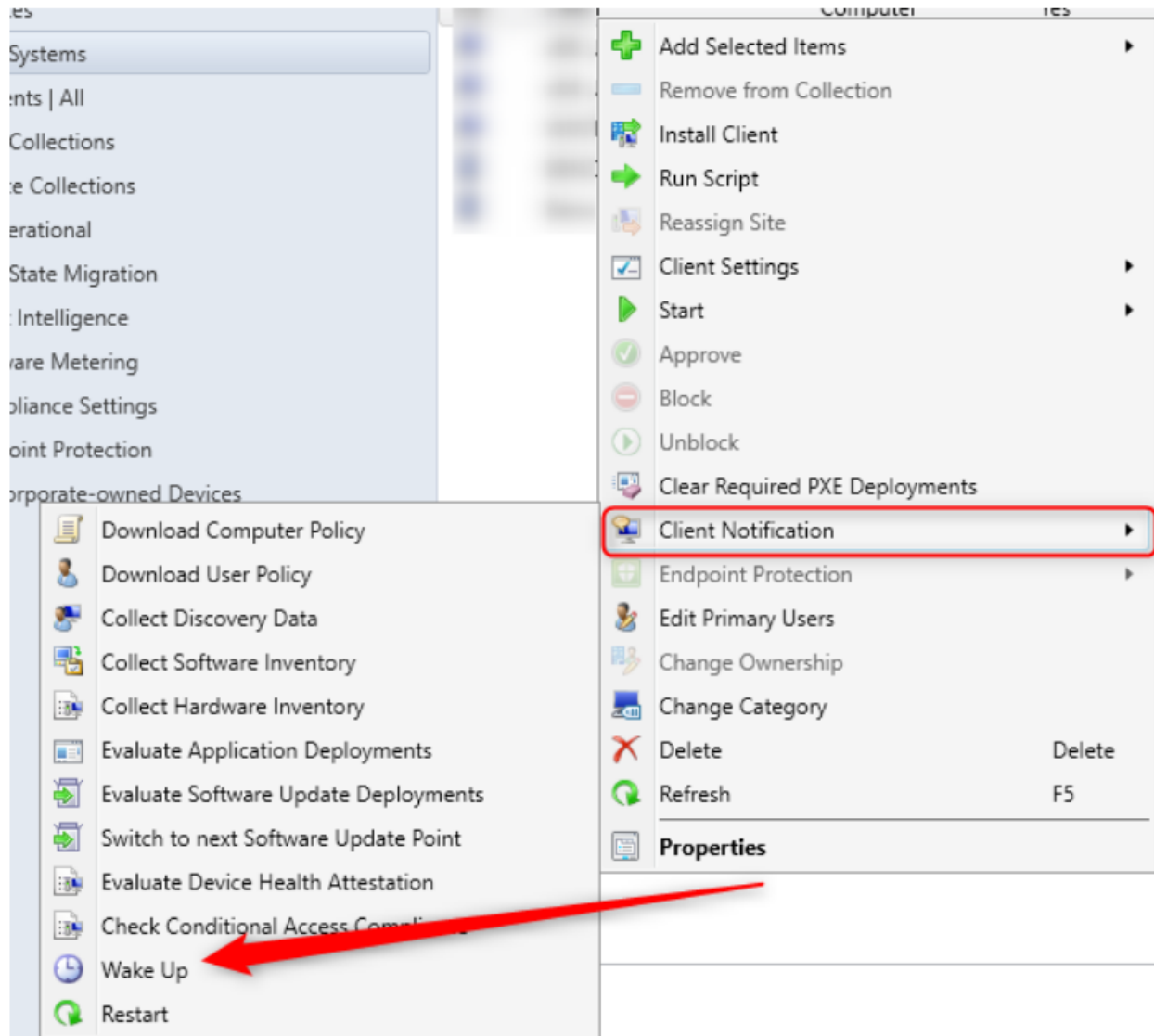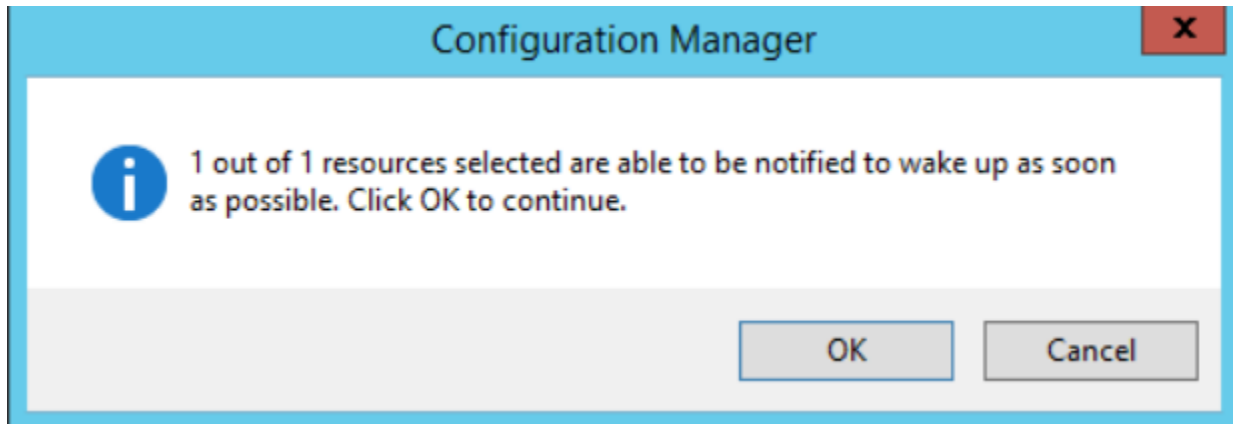
This is the message you should get when everything is configured and ready for action

Thanks

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9th Dec 2018