



Ghost Solution Suite 3.3 Deep Dive

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Product Management



Ghost Solution Suite 3.3



MODERN WEB CONSOLE

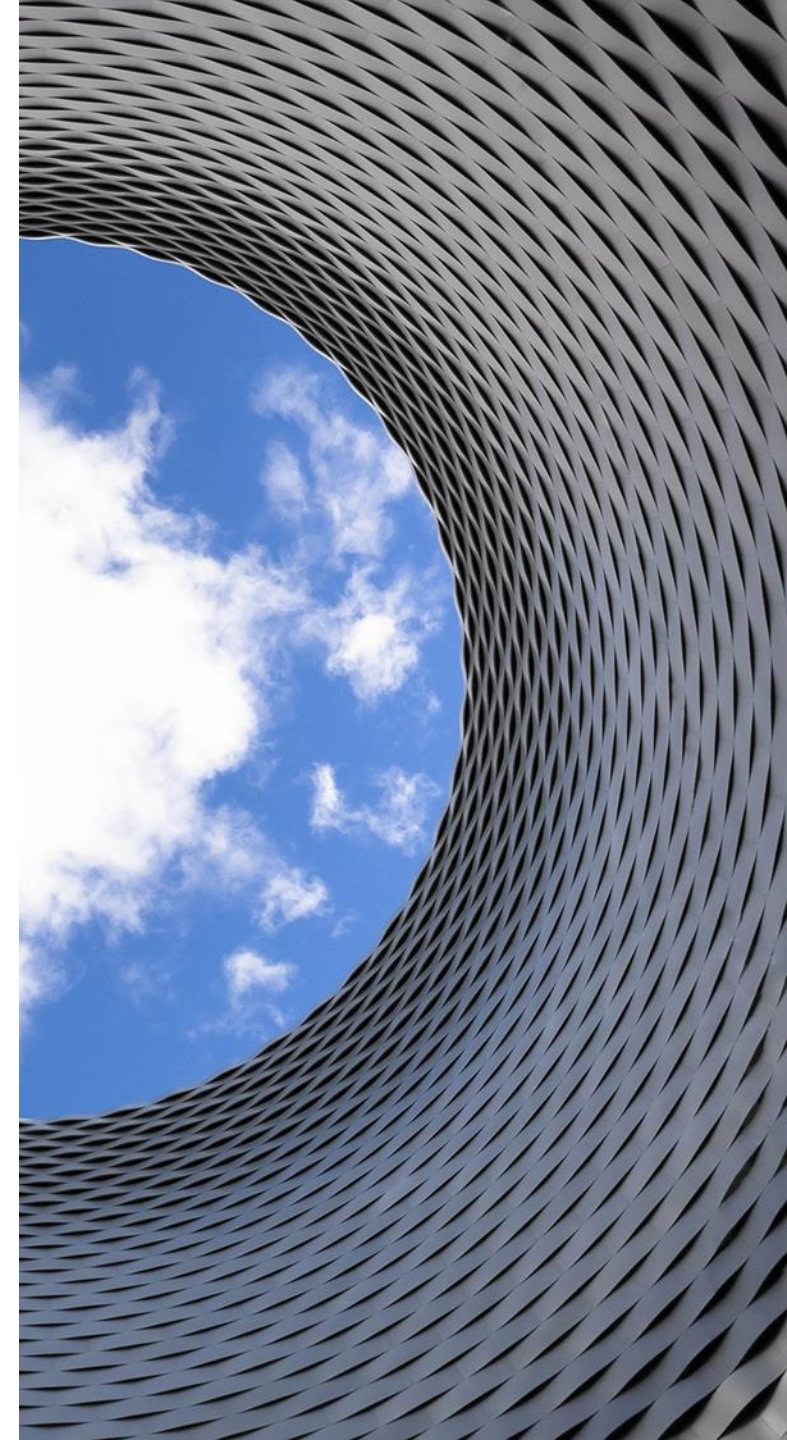


GUIDED WIZARDS



SPEED

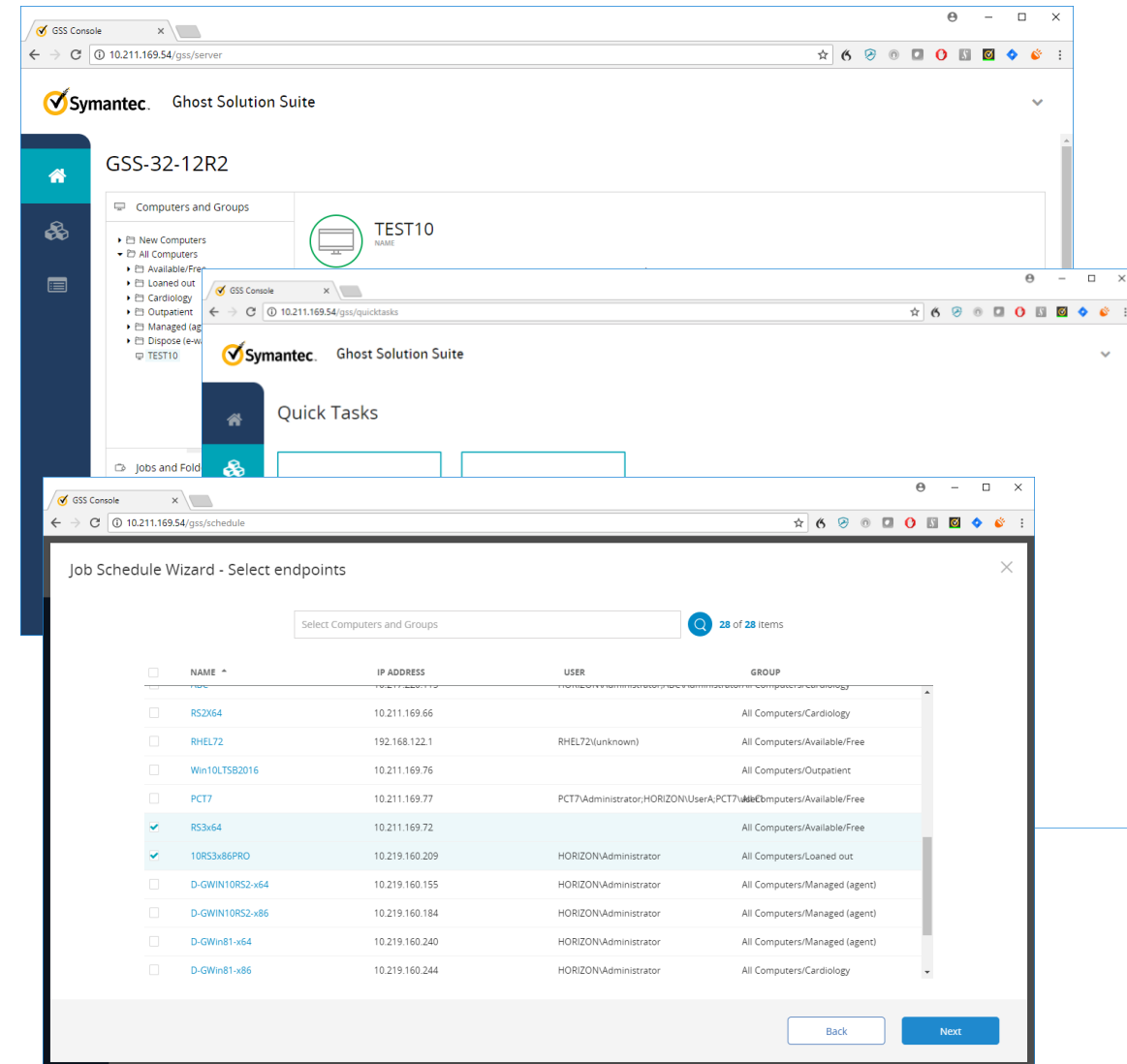
Web Console



GSS Web Console overview



- Additional new Web console
 - Available in addition to the thick console
 - Access from any browser
 - Large number of users can access simultaneously
 - Obeys security permissions in existing console
 - All actions visible on the thick console
- Simple quick tasks for common actions
 - Common tasks represented by simple, easy to use flows which guide the user
 - Easy for user to find the job they need
 - Modern style to improve usage satisfaction
- Vastly improved user experience
 - Step by step flow
 - Very small learning curve
 - Reduces mistakes



GSS Web Console – Computer View



GSS-32-12R2

Computers and Groups

- New Computers
- All Computers
 - Available/Free
 - Loaned out
 - Cardiology
 - Outpatient
 - Managed (agent)
 - Dispose (e-waste/recycle)
 - TEST10

Jobs and Folders

- System Jobs
- Samples
- RU5-Jobs
- RU6-Jobs
- RU6-PCT
- Linux-Tests
- Win10-LTSB-2015-x86
- Win10LTSB-2015
- _Applications
- PGFolder

TEST10
NAME

TEST10
FULL QUALIFIED NAME

005056806268
MAC ADDRESS

Windows 10 Enterprise 10.0.15063
OPERATING SYSTEM

10.219.160.222
IP ADDRESS

[Schedule Job](#)

Jobs

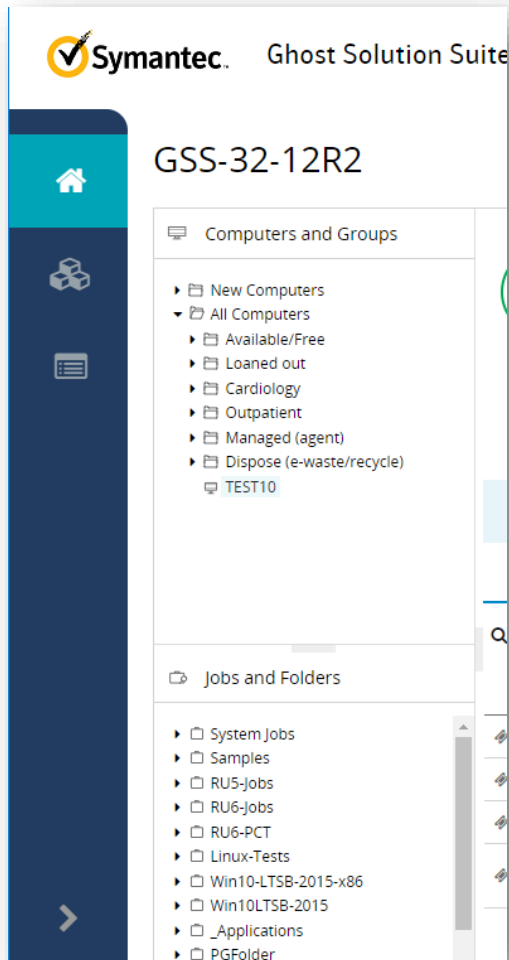
Search 4 of 4 items

JOB NAME	JOB FOLDER	SCHEDULED AT	STATUS
Deploy-Image-SOI-Taken		2018-06-04 16:22:00	Configuring computer...
Wait		2018-06-04 14:43:00	Wait task completed successfully.
Create-Image-Sysprep-Win10-SOI		2018-06-04 12:55:00	Imaging process complete
Install Windows Automation Folder: TEST10	System Jobs/Install Jobs	2018-06-04 12:53:00	Package installation complete

GSS Web Console – Computer View

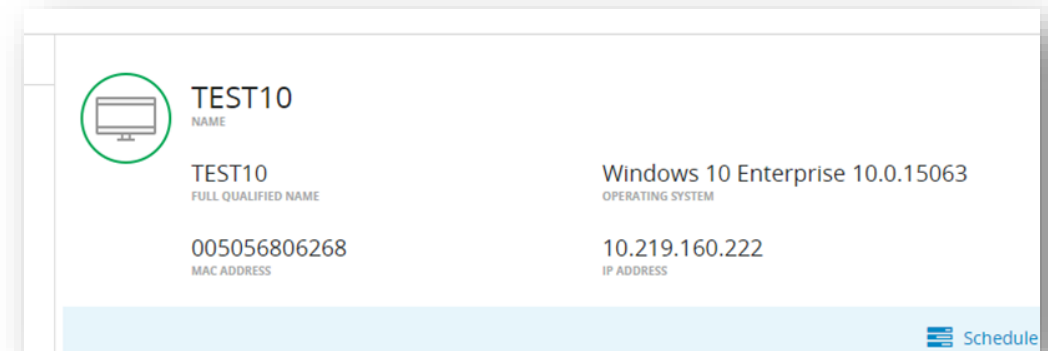


Full console look and feel maintained



- Ensures familiarity for existing customers
- Folder structure often used as a workflow through different stages of deployment

Basic Inventory & Status

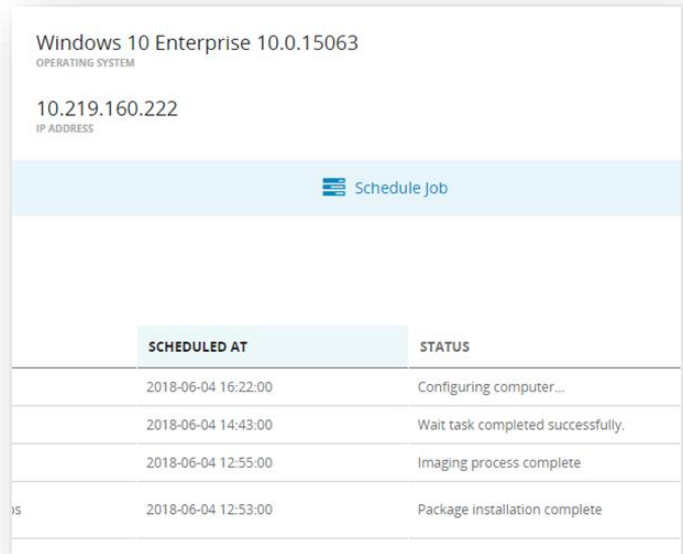


- Basic Inventory at users fingertips
- Color indicates device status (connected, disconnected, in automation)

GSS Web Console – Computer View

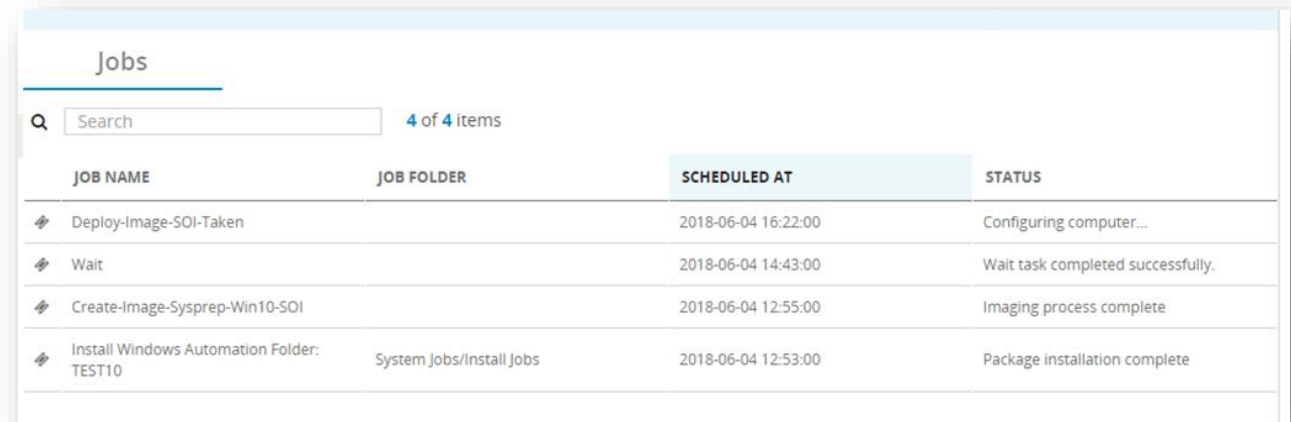


Easily schedule Jobs



- Schedule Job button allows jobs to be easily scheduled
- Works with individual machines and groups of machines

View executed jobs



- See all jobs executed on a device including scheduled date/time and current status
- Find a specific job using the search field
- Order columns

GSS Web Console – Jobs View



Symantec Ghost Solution Suite

GSS-32-12R2

Computers and Groups

- New Computers
- All Computers

Jobs and Folders

- Not Imaging
- Imaging
- Migrations
- Misc Jobs
 - Power Control
 - Powershell
 - Copy WLogevent to client
 - DAgent Upgrade**
 - Install MSI 2.0 runtime
 - Update AClient
 - Scripted Os Installs
 - Scripts

DAgent Upgrade

TASK	DETAILS
Copy File to	.\Agents\AClient\dagent.msi
Copy File to	.\Agents\AClient\dagent_ia64.msi
Copy File to	.\Agents\AClient\dagent_x64.msi
Run Script	(embedded)
Run Script	(embedded)
Run Script	(embedded)

[Schedule Job](#)

Computers

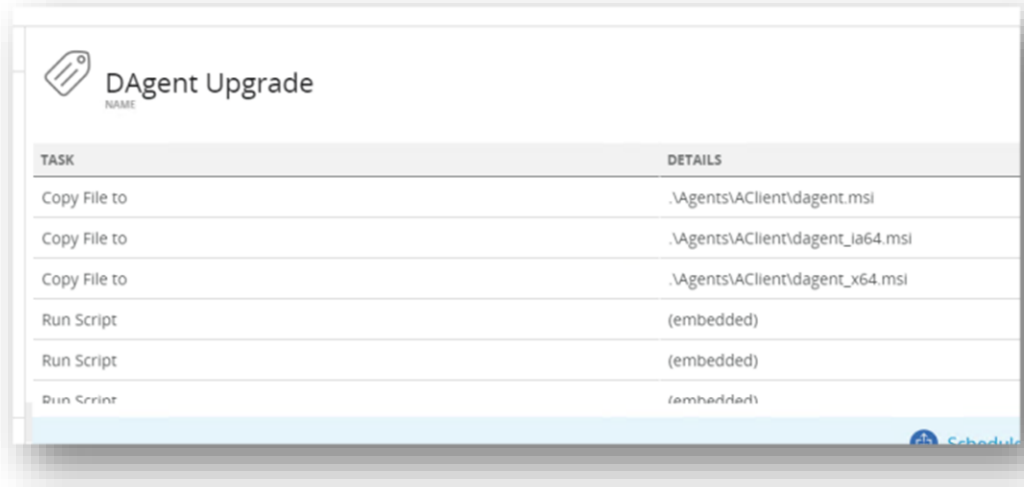
Search

4 of 4 items

COMPUTER	GROUP	SCHEDULED AT	STATUS
WIN7-64		2018-10-15 18:36:19	Script execution complete
10RS3x86PRO			Sending Wake-On-Lan signal...
RS2X64		2018-10-15 18:36:20	Script execution complete
O-2013			Sending Wake-On-Lan signal...

GSS Web Console – Jobs View

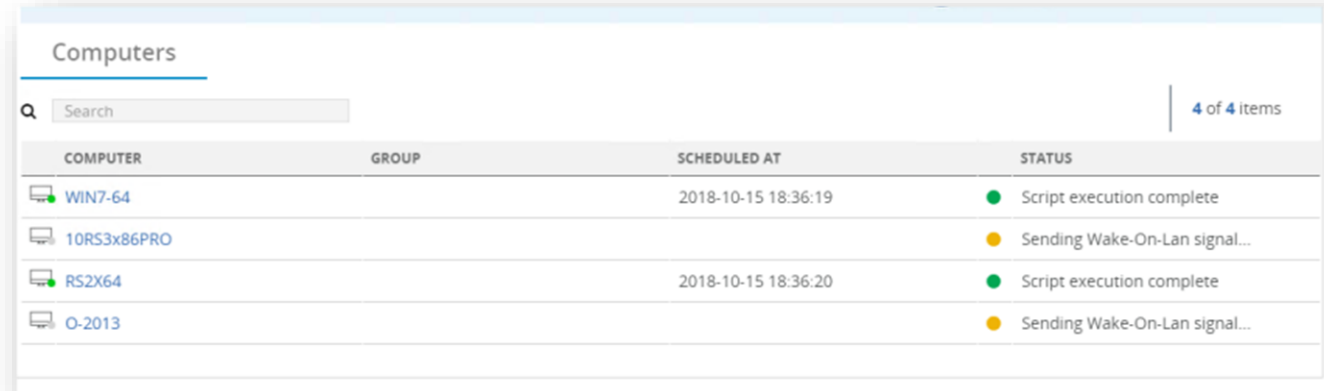
See tasks within a job



TASK	DETAILS
Copy File to	.\Agents\AClient\dagent.msi
Copy File to	.\Agents\AClient\dagent_ia64.msi
Copy File to	.\Agents\AClient\dagent_x64.msi
Run Script	(embedded)
Run Script	(embedded)
Run Script	(embedded)

- See all tasks in the current job to confirm the job is correct

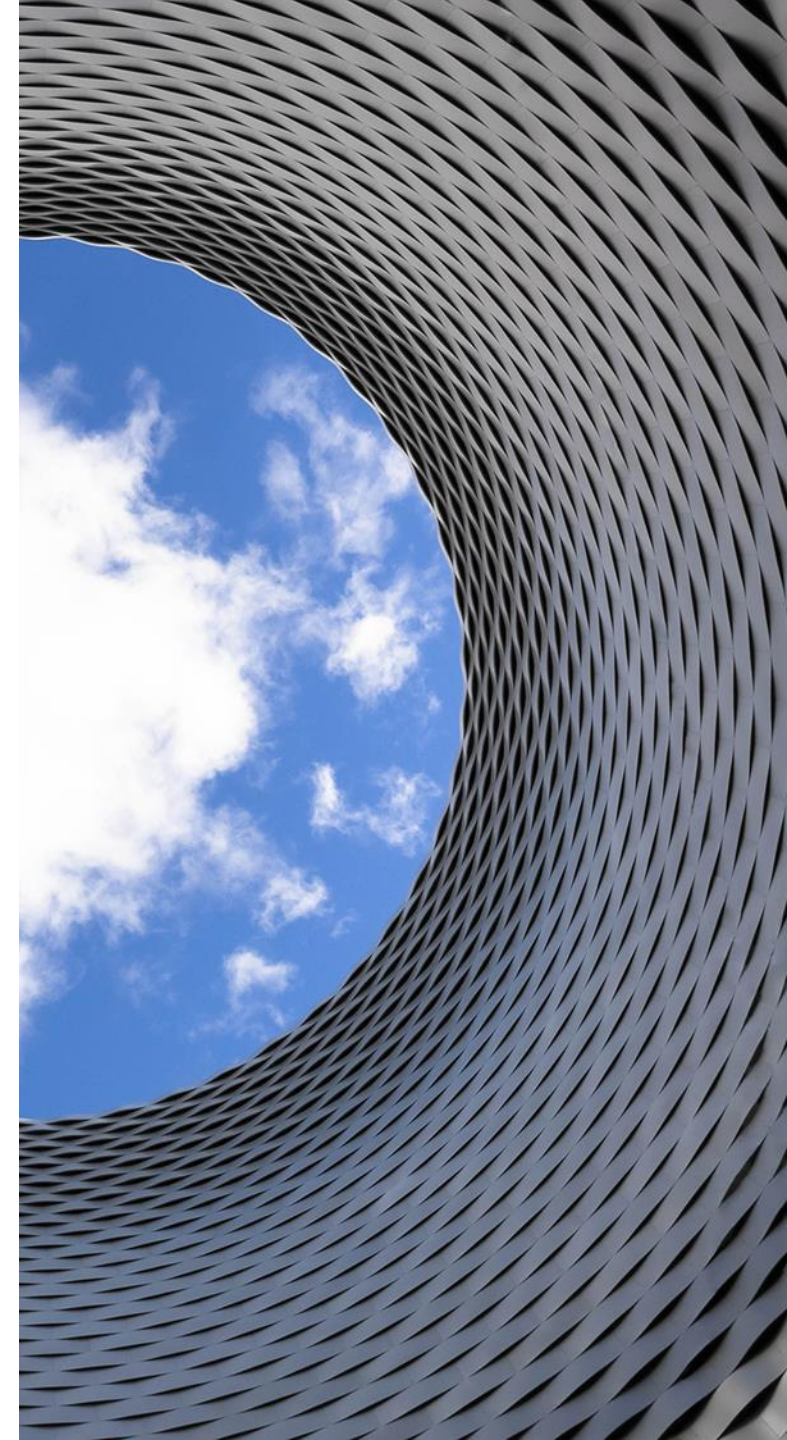
View executed jobs



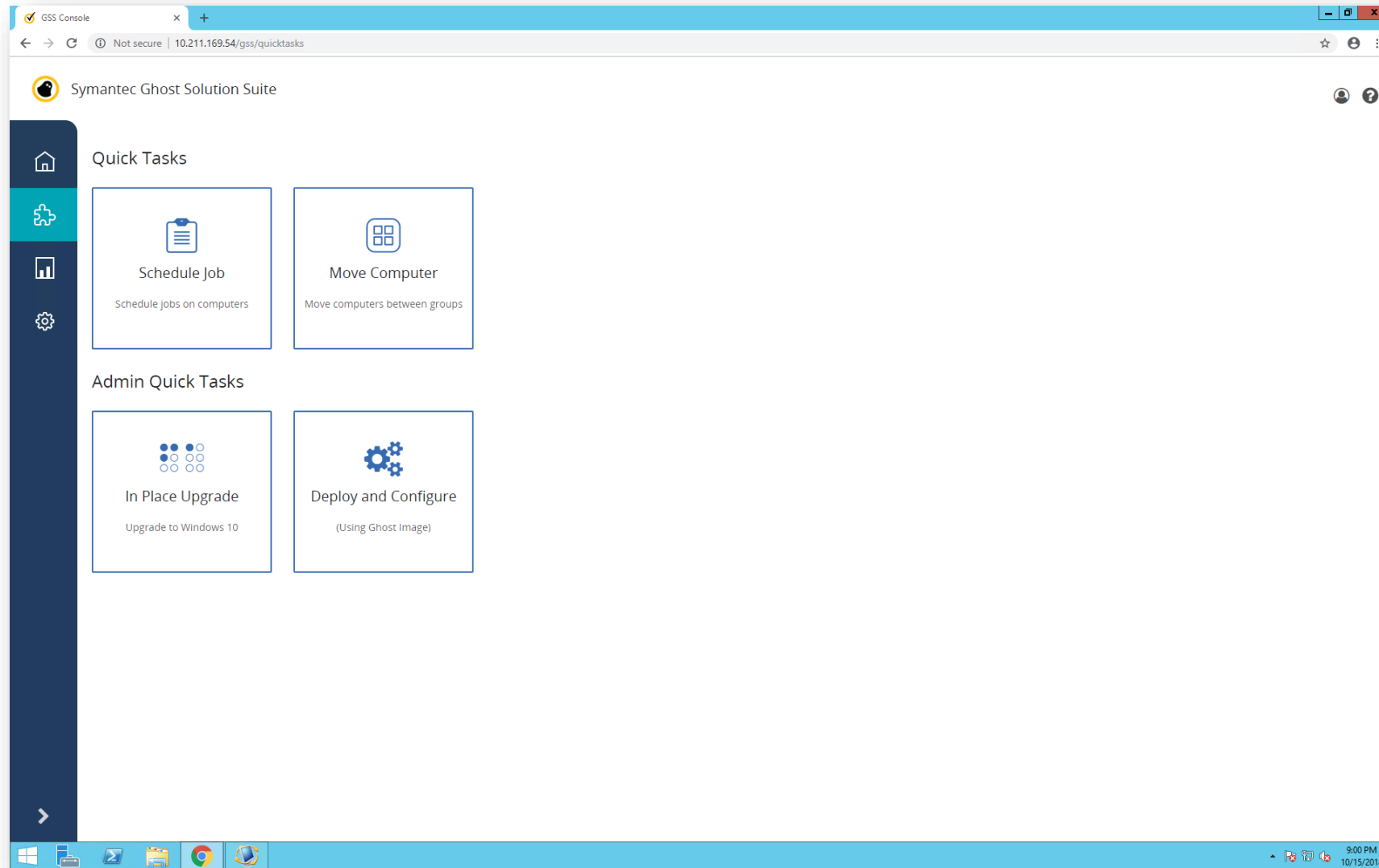
COMPUTER	GROUP	SCHEDULED AT	STATUS
WIN7-64		2018-10-15 18:36:19	Script execution complete
10RS3x86PRO			Sending Wake-On-Lan signal...
RS2X64		2018-10-15 18:36:20	Script execution complete
O-2013			Sending Wake-On-Lan signal...

- See all computers the job has been executed on including scheduled date/time and current status
- Find a specific computer using the search field
- Order columns

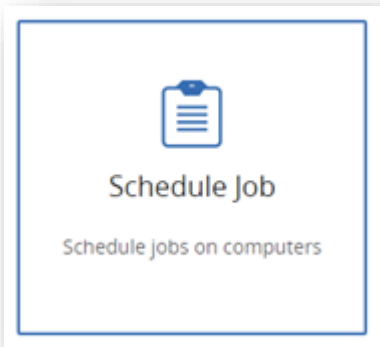
Quick Tasks



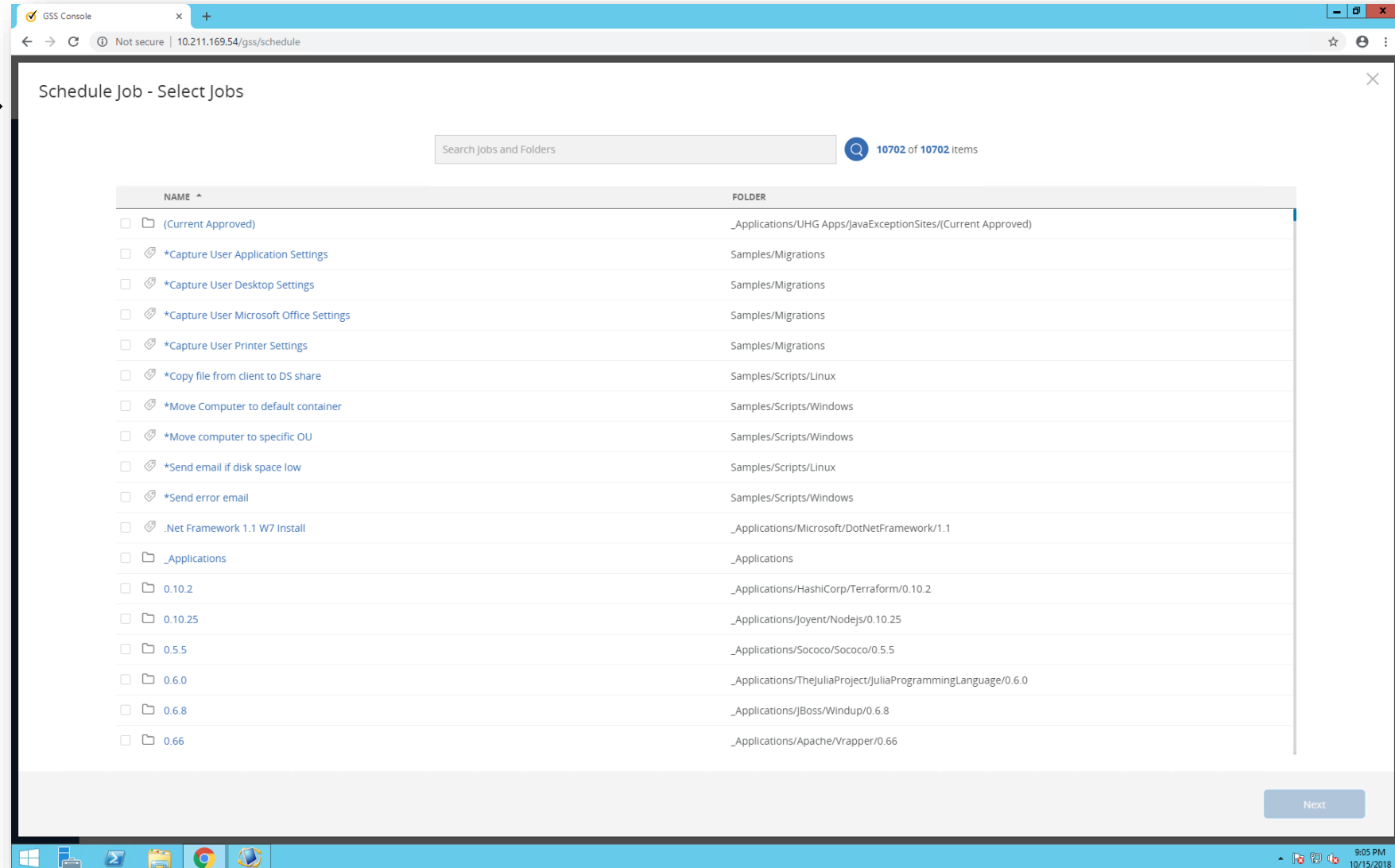
GSS Web Console – Quick Tasks



GSS Web Console – Schedule Job

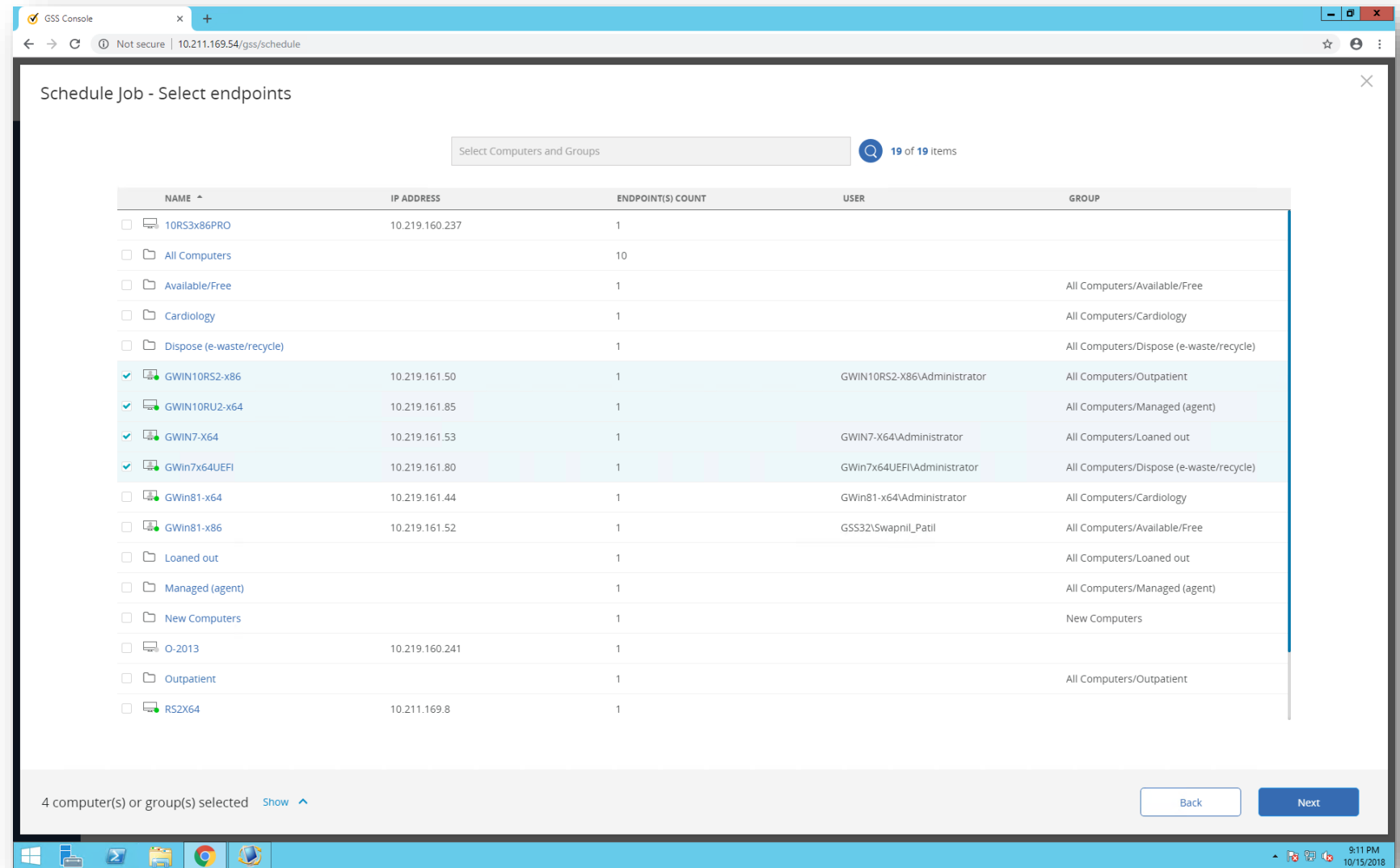


- First select the job(s)
- Supports scheduling folders
- Search quickly locates jobs using simple and inclusive search parameters
- Multiselect available
- All selected jobs appear in a 'basket' in the bottom left



GSS Web Console – Schedule Job

- Next select the computer(s)
- Supports scheduling groups
- Search quickly locates computers using simple and inclusive search parameters
- Multiselect available
- All selected computers appear in a 'basket' in the bottom left



Schedule Job - Select endpoints

Select Computers and Groups 19 of 19 items

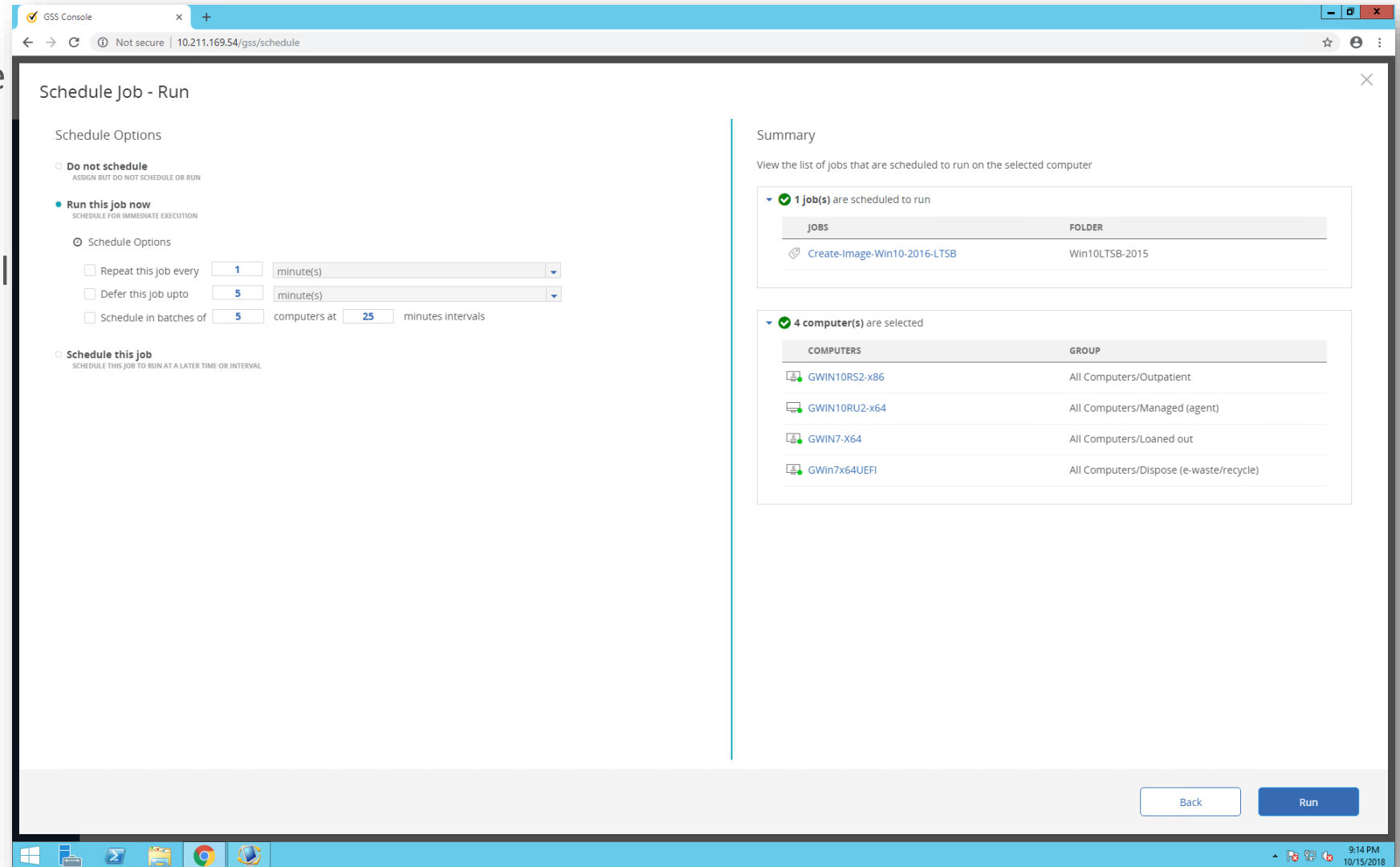
NAME ^	IP ADDRESS	ENDPOINT(S) COUNT	USER	GROUP
<input type="checkbox"/> 10RS3x86PRO	10.219.160.237	1		
<input type="checkbox"/> All Computers		10		
<input type="checkbox"/> Available/Free		1		All Computers/Available/Free
<input type="checkbox"/> Cardiology		1		All Computers/Cardiology
<input type="checkbox"/> Dispose (e-waste/recycle)		1		All Computers/Dispose (e-waste/recycle)
<input checked="" type="checkbox"/> GWIN10RS2-x86	10.219.161.50	1	GWIN10RS2-X86\Administrator	All Computers/Outpatient
<input checked="" type="checkbox"/> GWIN10RU2-x64	10.219.161.85	1		All Computers/Managed (agent)
<input checked="" type="checkbox"/> GWIN7-X64	10.219.161.53	1	GWIN7-X64\Administrator	All Computers/Loaned out
<input checked="" type="checkbox"/> GWin7x64UEFI	10.219.161.80	1	GWin7x64UEFI\Administrator	All Computers/Dispose (e-waste/recycle)
<input type="checkbox"/> GWin81-x64	10.219.161.44	1	GWin81-x64\Administrator	All Computers/Cardiology
<input type="checkbox"/> GWin81-x86	10.219.161.52	1	GSS32\Swapnil_Patil	All Computers/Available/Free
<input type="checkbox"/> Loaned out		1		All Computers/Loaned out
<input type="checkbox"/> Managed (agent)		1		All Computers/Managed (agent)
<input type="checkbox"/> New Computers		1		New Computers
<input type="checkbox"/> O-2013	10.219.160.241	1		
<input type="checkbox"/> Outpatient		1		All Computers/Outpatient
<input type="checkbox"/> RS2X64	10.211.169.8	1		

4 computer(s) or group(s) selected [Show](#) ^

[Back](#) [Next](#)

GSS Web Console – Schedule Job

- The schedule can now be defined
- The selected jobs and computers are displayed in the right panel for final review. This helps to avoid scheduling mistakes
- Run the job!
- These steps are very simple to learn and very efficient across multiple users



Schedule Job - Run

Schedule Options

☐ Do not schedule
ASSIGN BUT DO NOT SCHEDULE OR RUN

☒ Run this job now
SCHEDULE FOR IMMEDIATE EXECUTION

☐ Schedule Options

☐ Repeat this job every minute(s)

☐ Defer this job upto minute(s)

☐ Schedule in batches of computers at minutes intervals

☐ Schedule this job
SCHEDULE THIS JOB TO RUN AT A LATER TIME OR INTERVAL

Summary

View the list of jobs that are scheduled to run on the selected computer

✓ 1 job(s) are scheduled to run

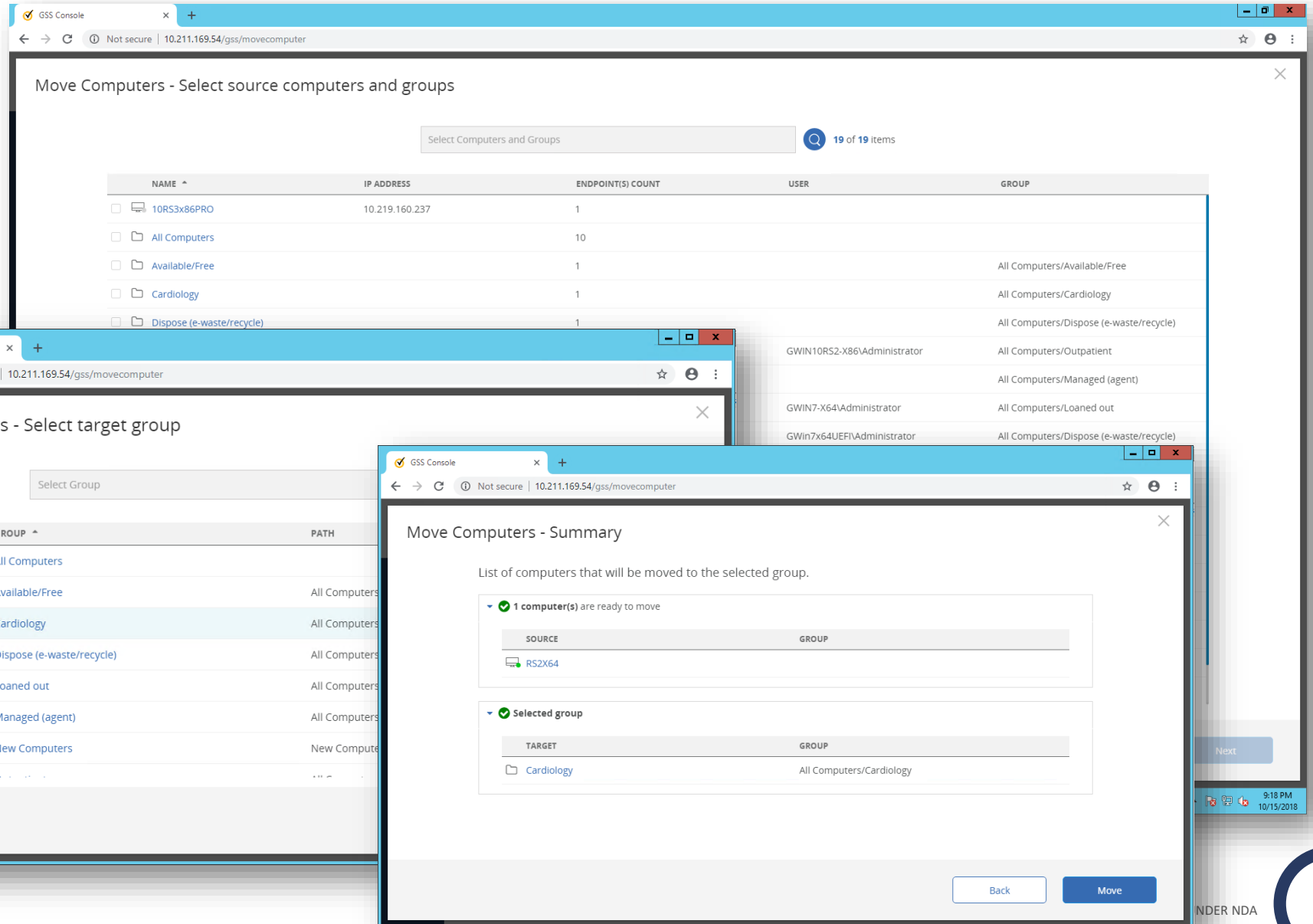
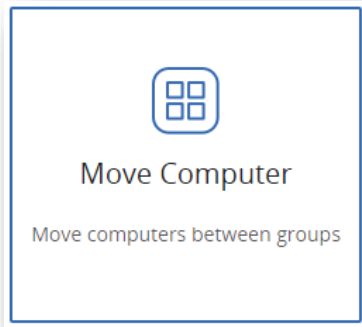
JOB	FOLDER
Create-Image-Win10-2016-LTSB	Win10LTSB-2015

✓ 4 computer(s) are selected

COMPUTERS	GROUP
GWIN10RS2-x86	All Computers/Outpatient
GWIN10RU2-x64	All Computers/Managed (agent)
GWIN7-X64	All Computers/Loaned out
GWin7x64UEFI	All Computers/Dispose (e-waste/recycle)

Back Run

GSS Web Console – Move Computer



Move Computers - Select source computers and groups

Select Computers and Groups 19 of 19 items

NAME ^	IP ADDRESS	ENDPOINT(S) COUNT	USER	GROUP
<input type="checkbox"/> 10RS3x86PRO	10.219.160.237	1		
<input type="checkbox"/> All Computers		10		
<input type="checkbox"/> Available/Free		1		All Computers/Available/Free
<input type="checkbox"/> Cardiology		1		All Computers/Cardiology
<input type="checkbox"/> Dispose (e-waste/recycle)		1		All Computers/Dispose (e-waste/recycle)

Move Computers - Select target group

Select Group

GROUP ^	PATH
<input type="radio"/> All Computers	All Computers
<input type="radio"/> Available/Free	All Computers
<input checked="" type="radio"/> Cardiology	All Computers
<input type="radio"/> Dispose (e-waste/recycle)	All Computers
<input type="radio"/> Loaned out	All Computers
<input type="radio"/> Managed (agent)	All Computers
<input type="radio"/> New Computers	New Computers

1 group selected

Move Computers - Summary

List of computers that will be moved to the selected group.

1 computer(s) are ready to move

SOURCE	GROUP
RS2X64	

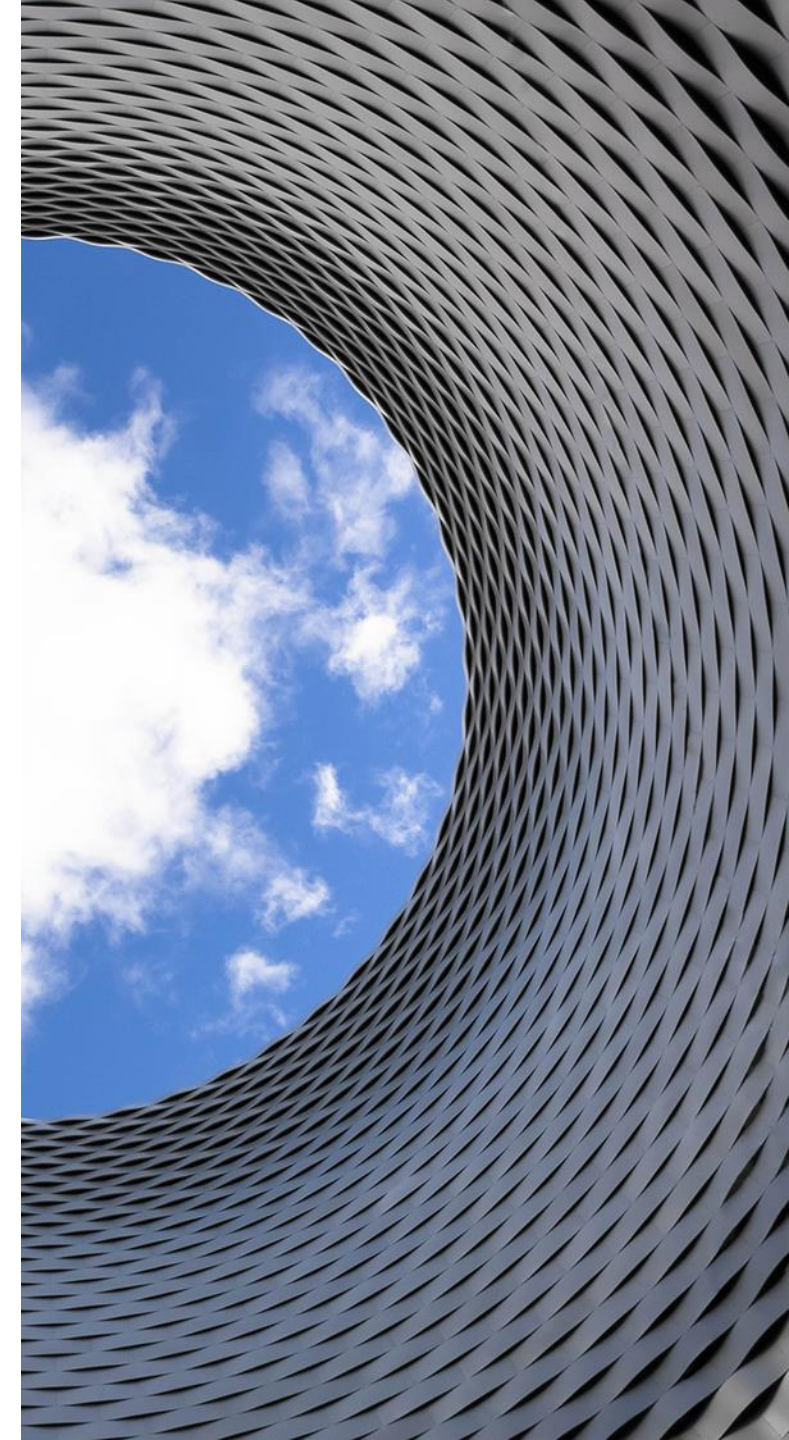
Selected group

TARGET	GROUP
Cardiology	All Computers/Cardiology

Back Move

- Allows computers to be moved to different groups
- Similar flow to scheduling a job

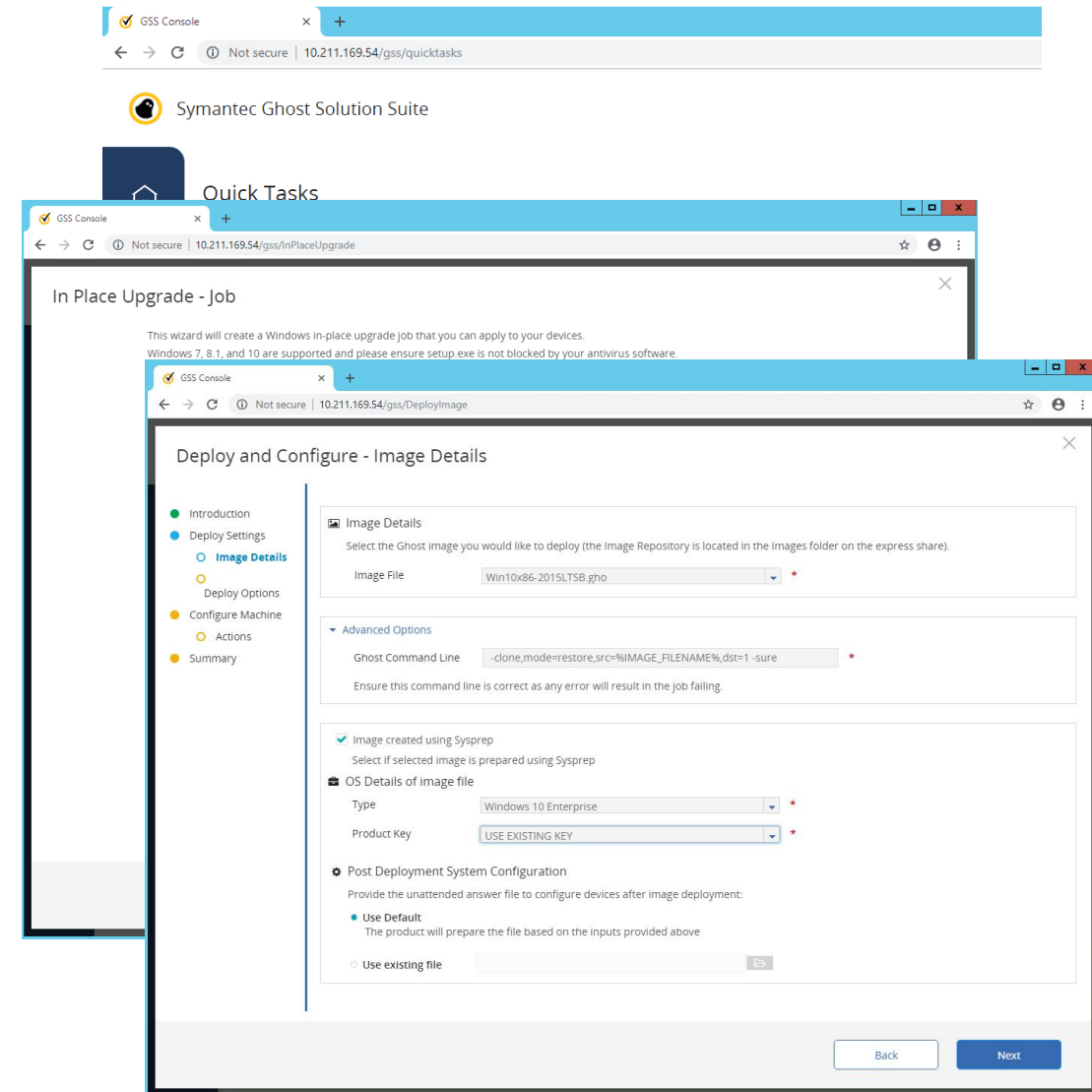
Wizard Driven Job Creation (Admin Quick Tasks)



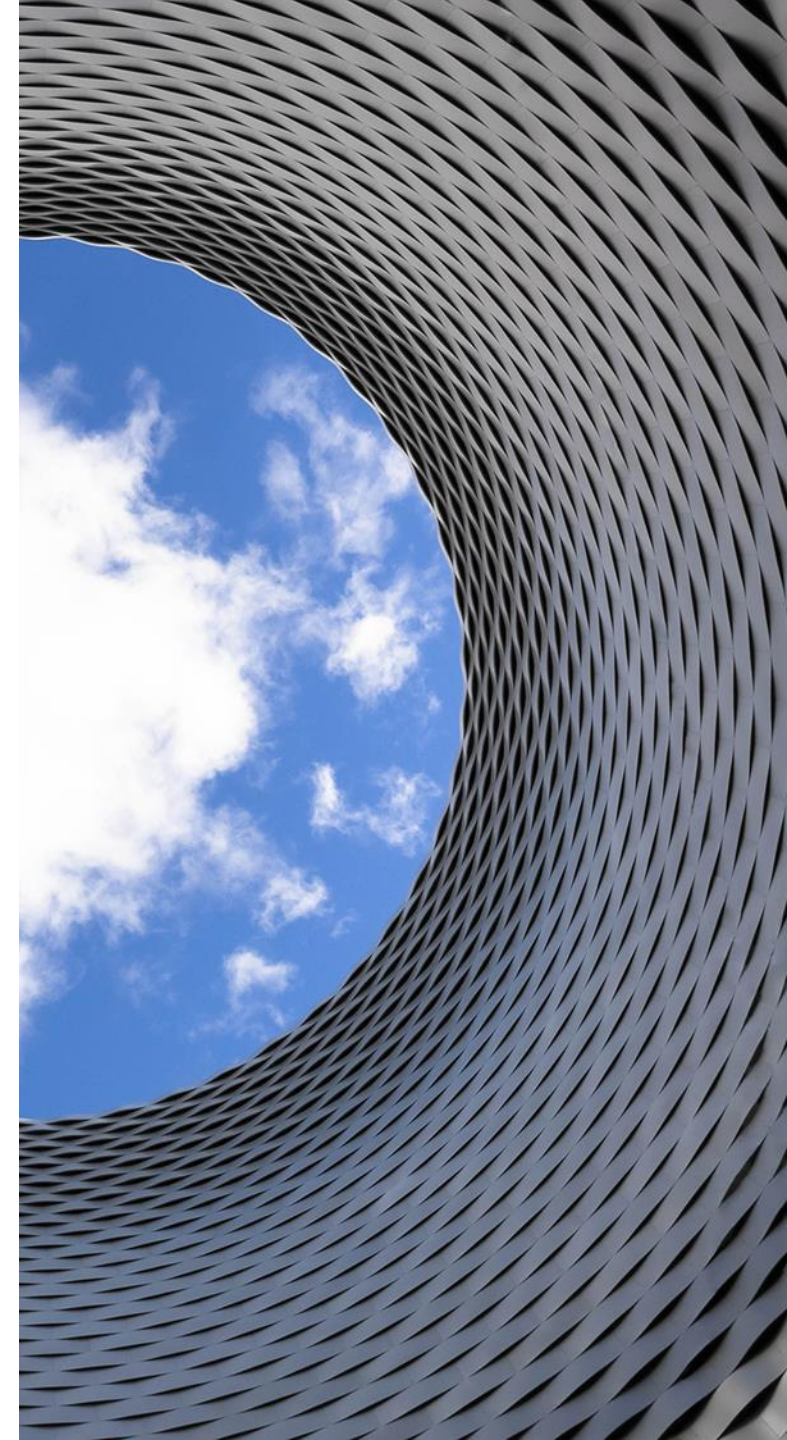
GSS Web Console Wizards



- New Wizards available (Admin Quick Tasks)
 - Step by step guide to creating common jobs
 - Helps new admins quickly learn how to create jobs
 - Jobs can be deployed using web console and edited in the existing console
 - Create Gold image being added in RU1
- In-place upgrade
 - Creates a simple Windows 10 upgrade job
 - Simple, single page wizard
 - Customers can be ready to migrate in minutes
- Deploy Image
 - Step by step guide to creating a deploy image task
 - Breaks down a complex process into stages
 - Contextual help guides the user (more coming here in RU1)



Activity Monitor



GSS Web Console – Activity Summary



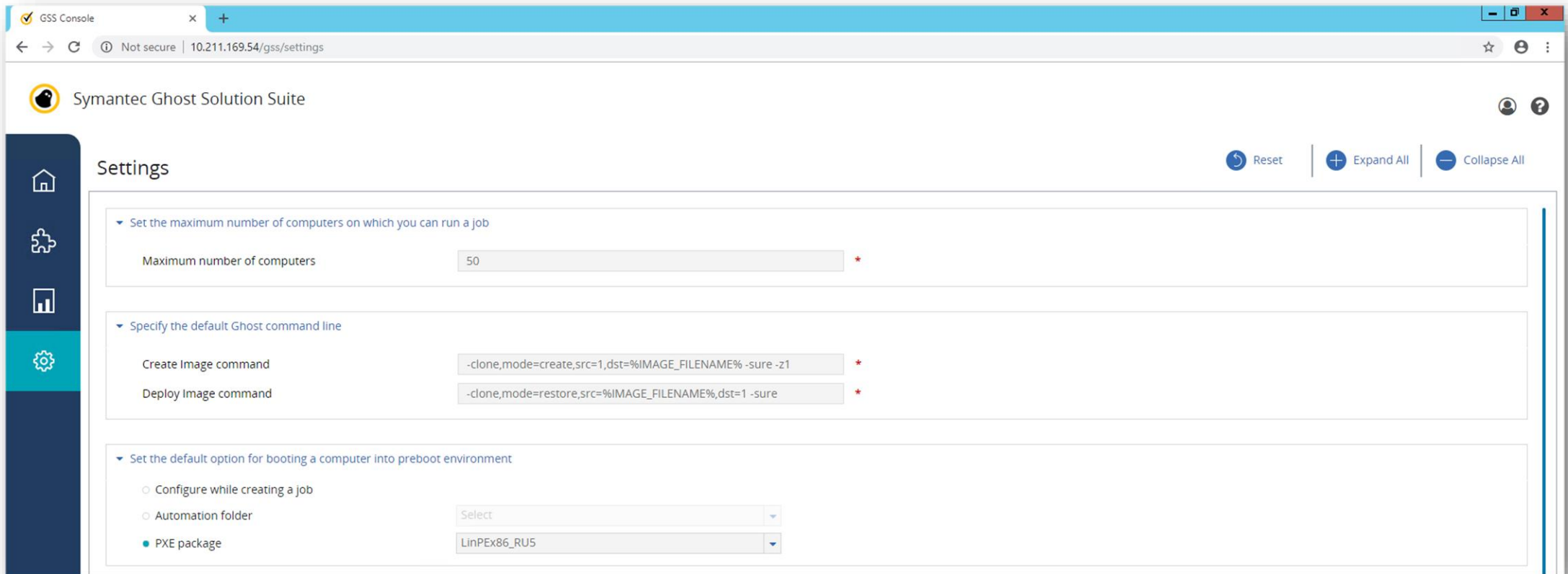
- Summary of all scheduled jobs
- Allows a console user to easily verify the status of actions they have taken
- Includes:
 - Job name
 - Computer name
 - Current job status
 - Start time
 - End Time
 - Execution time
- Easily search for a job
- Summary can be exported to preserve job execution history data

JOB NAME	COMPUTER NAME	JOB STATUS	START TIME	END TIME	EXECUTION TIME
DAgent Upgrade	RS2X64	Script execution complete	2018-10-15 18:36:20	2018-10-15 18:36:21	000:00:01
DAgent Upgrade	WIN7-64	Script execution complete	2018-10-15 18:36:19	2018-10-15 18:36:19	000:00:00
Agent x64 Update	O-2013	Agent update complete.	2018-10-11 18:55:41	2018-10-11 18:55:43	000:00:02
Agent x64 Update	O-2013	Agent update complete.	2018-10-04 14:08:38	2018-10-04 14:08:38	000:00:00
Agent x64 Update	RS2X64	Agent update complete.	2018-09-29 23:18:32	2018-09-29 23:18:33	000:00:01
Agent x64 Update	RS2X64	Agent update complete.	2018-09-28 17:15:33	2018-09-28 17:15:34	000:00:01
Agent x86 Update	10RS3x86PRO	Agent update complete.	2018-09-28 11:16:56	2018-09-28 11:17:03	000:00:07
Agent x86 Update	GWIN10RS2-x86	Agent update complete.	2018-09-27 23:02:22	2018-09-27 23:02:34	000:00:12
Agent x64 Update	WIN7-64	Agent update complete.	2018-09-27 20:55:30	2018-09-27 20:55:36	000:00:06
Agent x64 Update	GWin7x64UEFI	Agent update complete.	2018-09-27 20:55:18	2018-09-27 20:55:25	000:00:07
DAgent Upgrade	10RS3x86PRO	Sending Wake-On-Lan signal...			
DAgent Upgrade	O-2013	Sending Wake-On-Lan signal...			

Other Settings



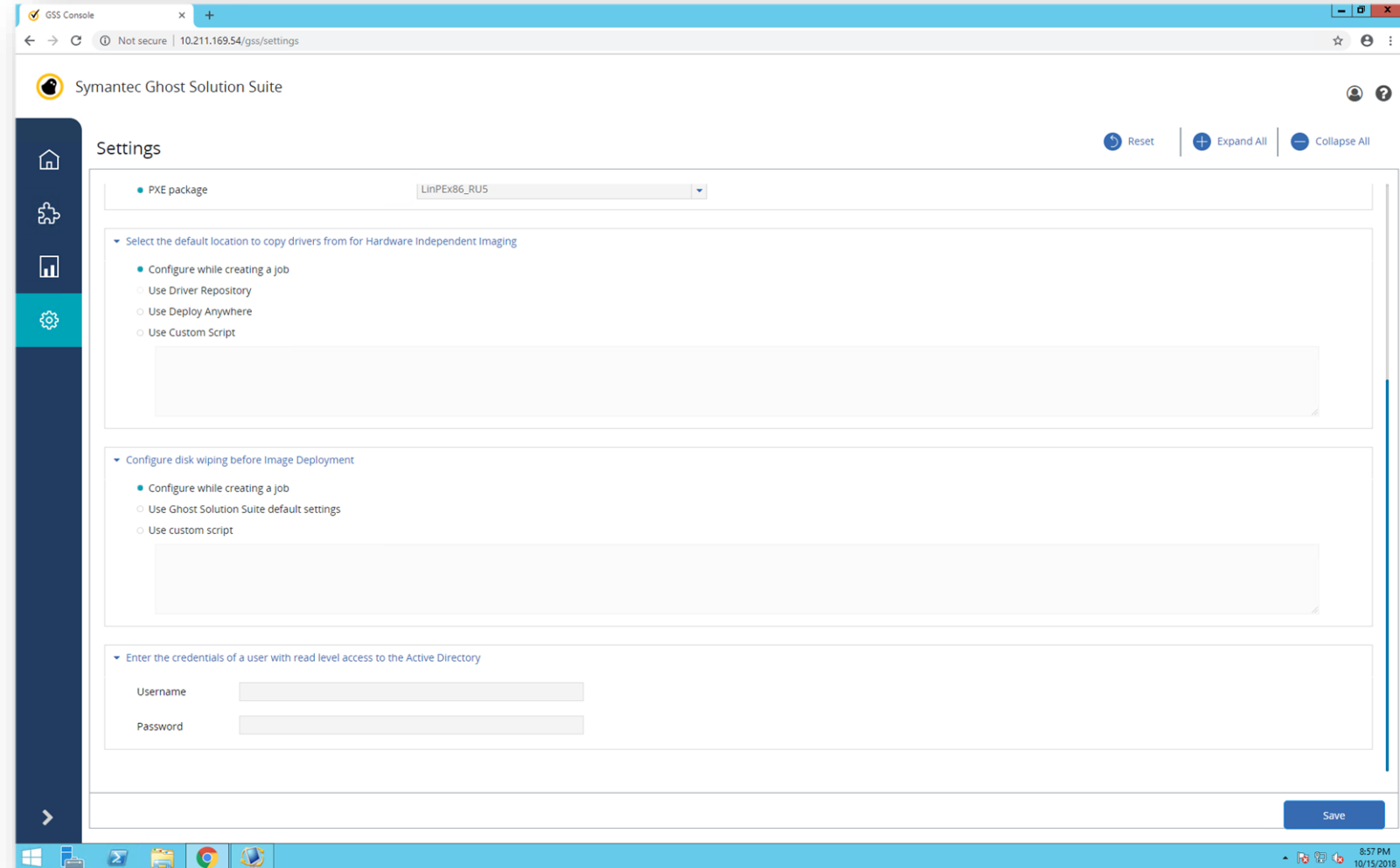
GSS Web Console – Other settings



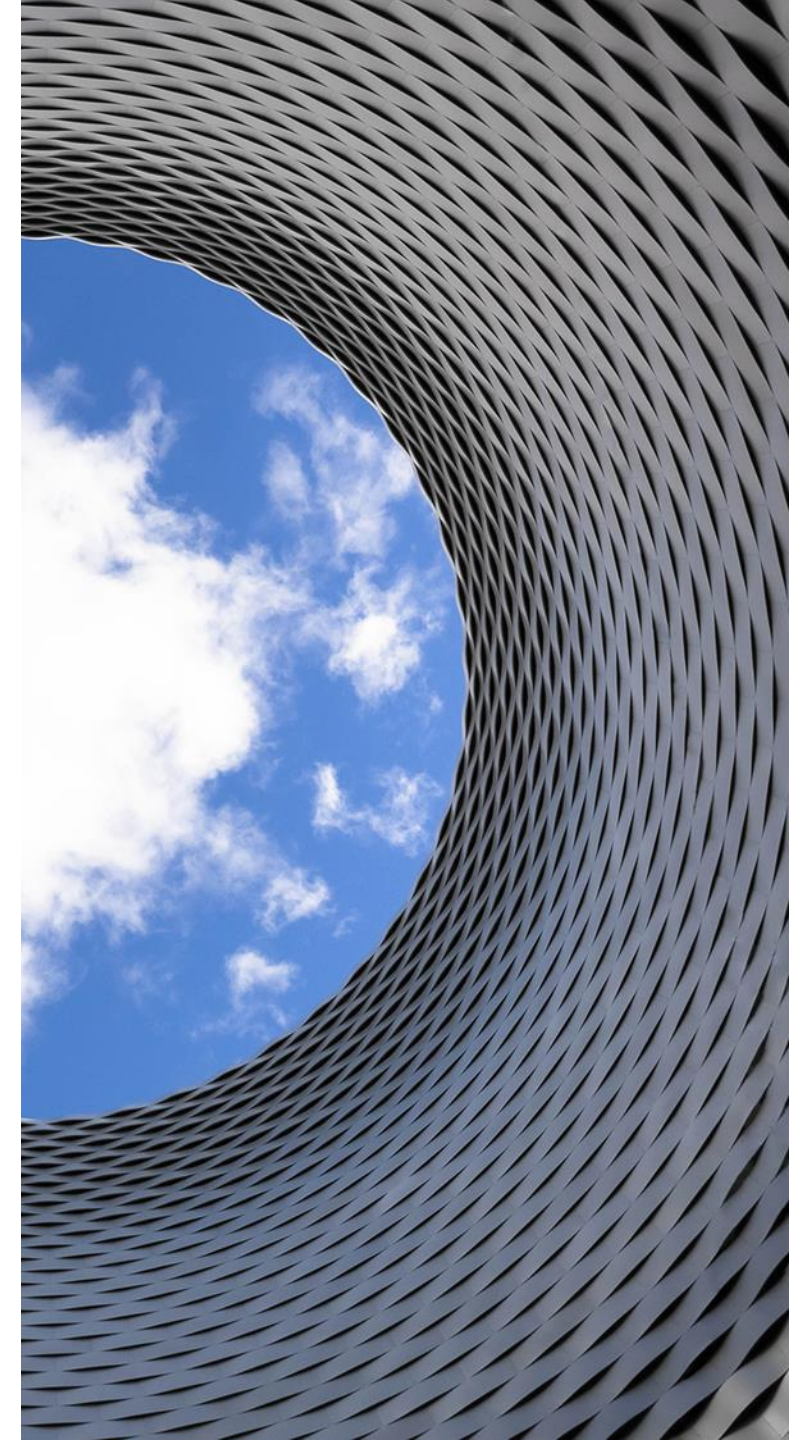
- Control the maximum number of computers a job can be executed on. This helps to stop damaging scheduling mistakes.
- Edit the default Ghost Command line to handle environment specific customizations
- Choose the default PXE option

GSS Web Console – Other settings

- Select how to handle drivers for Hardware Independence
- Select default options for disk configuration

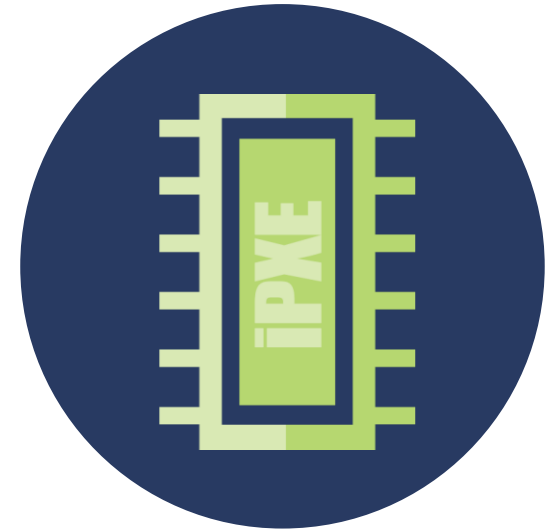


Speed Improvements



iPXE in GSS (and Deployment Solution)

- A significant part of the end to end imaging process is booting into automation
- iPXE delivers a dramatic speed improvement in boot time to automation
- This reduces end user down time during imaging actions
- Supports HTTPS, increasing security
- Existing PXE options still available



Imaging Speed Improvements

- The speed to image a device is critically important, especially in large environments
- We have increased the imaging speed in most scenarios
- The value of this is to:
 - Reduces downtime for end users
 - Improve efficiency of iterative image creation process



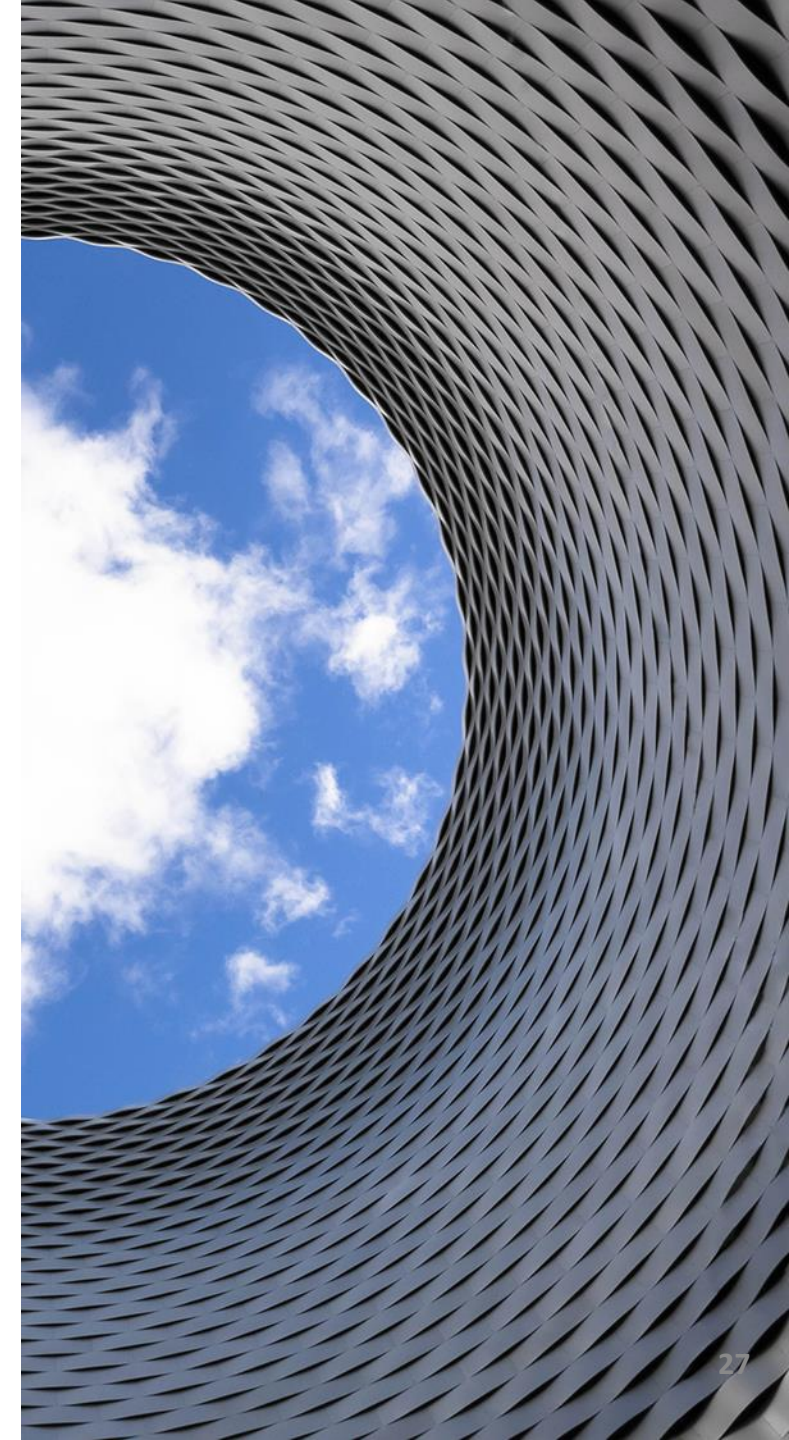
Faster Linux imaging support



- Driven by constant changes in XFS which required significant engineering effort
- Delivers Linux OS support in a fraction of the time, freeing up resources to work on other new features
- Effectively takes a sector by sector image but ignores empty space (so image is the size of the data and not the drive)



Questions?





Thank you!

