GPFS Installation Notes

- 1. Install Windows
- 2. Join domain with the domain administrator account
 - Step 1: go to System

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Step 3: Select "This computer is part of business network,....", click next

Select the option that desc	ribes your network		
This computer is part of a busin work	ess network; I use it to connect to	other computers at	
This is a home computer; it's n	t part of a business network		

Step 4: Select "My company uses a network with a domain", click next

	and a local a lander has	1.4.1	
3	Soin a Domain or Workgroup	-	
	Is your company network on a domain	n?	
	My company uses a network with a domain		
	My company uses a network without a domain	i	
			Next Cancel

Step 5: Enter the User name in the form z123456_sa@ad.unsw.edu.au .. Domain name will then become inactive and should be empty. (enter your password too of course..), click next

Jser name:	z9090710_sa@ad.unsw.edu.au	
assword:	•••••	
<u>)</u> omain name:	USER-PC	

 Step 6: Computer name: whatever you want to call it, and Computer Domain is ADNS.UNSW.EDU.AU, click Next

Windows connot find	er name and computer do	imain name	computer
domain can be differe	int from your user account domain	n.)	computer
Computer name:	DONG		
Computer <u>d</u> omain:	ADNS.UNSW.EDU.AU		

Step 7: enter username in the form z123456_sa and Domain ADUNSW, click OK

Domain User Name	and Password
Type the name ar domain.	nd password of an account with permission to join the
<u>U</u> ser name:	z9090710_sa
Password:	•••••
Domain:	ADUNSW
	OK Cancel

Step 8: Add the AD root account put in 'root' for username and "ADUNSW" for domain. the only thing is now when you restart the computer it will try to log you on to the domain (which is where i got a bit confused) and you'll need to put LIFTOUT-PC\liftout as the username in order to log back in to the local admin account.

Do you war	nt to ena	ble a doma	in user acco	ount on this	comput	er?		
The domain us files, folders, ar	er will hav nd progran	access to all f s on the netw	ïles, folders, an ork.	d programs on	this comp	uter and all s	hared	
Add the foll	owing dor	ain user acco	unt:					
User name		root						
User doma	in:	ADUNSW					1	
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3. While logged in as the local mahcine admin, run GPFS auto-run installer

					x
C→	DDN-3.2.0.2 > GS3.2.0.2-Installer >	▼ ⁴ y	Search GS3.2.0.2-Instal	ler	٩
Organize 🔻 Include ir	n library ▼ Share with ▼ New folder		8	•	0
🔆 Favorites	Name	Date modified	Туре	Size	
🧮 Desktop	\mu cygwin64setup	1/28/2016 8:58 AM	File folder		
🐌 Downloads	IBM_SPECTRUM_SCALE_EXP_Wx86_4.1.1.2	1/28/2016 8:58 AM	File folder		
🔚 Recent Places	IBM_SPECTRUM_SCALE_STNDWx86_4.1.1.2	1/28/2016 8:58 AM	File folder		
	WDKtrace_w7_2008	1/28/2016 8:58 AM	File folder		
🥞 Libraries	WDKtrace_w8_2012	1/28/2016 8:58 AM	File folder		
Documents	🗱 GS_Install	1/20/2016 12:08 PM	Application	839 KB	
👌 Music	GS_install	1/20/2016 12:22 PM	Configuration sett	1 KB	
Pictures					
Videos 🗧					
🖳 Computer					
.					
V Network					
7 items					

4. Enter domain name and root password to continue. Ensure that you use "Test passwords"

Windows GS 3 Clien	it Installer	
 Disable Firewall Disable UAC 	Please note the during the	e client will be rebooted installation.
V Show GUI on next ru	n	
V Save Encrypted pass	word (into INI file)	
Windows Domain	Test passwords Root password	Valid
adunsw	••••••	
Installation Path where C	ygwin and GPFS files will be in	stalled
C:\GS3		
Installation source (local	or network share)	
C:\GS3.2.2.0-Installer	(1))	
Root account home folde	er	
Vhome\root		
 ● Install Spectrum Scale ○ Install Spectrum Scale 	e Standard Edition e Express Edition	
Save and Run	Exit	About

5. Click save and run and you should have the following output

Windows GS 3 Client Installer		J
Cygwin install files	***Available***	
SPFS GSkit install file	***Available***	
GPFS Client install file	***Available***	
GPFS License file	***Available***	
adunsw\root password	Valid	
nstallation source C:\GS3.2.0.2-Installer\	***Available***	
Validation Criteria been met and installation can continue.		
Exit	Continue	

- 6. Installation does two reboot automatically, the process may take up to 5 minutes to complete. DO NOT LOGIN and interrupt. After second reboot, login as domain\root
- 7. Upon the completion of installation, you see the following desktop, including:



- 8. Fix for incorrect username follows, this might be fixed in future with a domain alternation. Run the following commands, taking note to substitute the correct root password.
 - 8.1 mkpasswd -c >> /etc/passwd
 - 8.2 sed -I 's/ADUNSW+root/root/' /etc/passwd
 - 8.3 exit out of the Admin Korn Shell and start it up again
 - 8.4 Stop the ssh server with:
 - 8.5 Remove the ssh server with:
 - 8.6 ssh-host-config -y -u root -w "ROOT Password HERE"

```
- 0 X
GPFS Admin Korn Shell
ADUNSW+root@gpfs2-pc:~ $ mkpasswd -c >> /etc/passwd
ADUNSW+root@gpfs2-pc:~ $ sed -i 's/ADUNSW+root/root/' /etc/passwd
ADUNSW+root@gpfs2-pc:~ $ ssh-host-config -y -u root -w "
                                                                                                                                                                                                                                                                                                                                                                                          =
  *** Info: Generating missing SSH host keys
*** Query: Overwrite existing /etc/ssh_config file? (yes/no) yes
**** Info: Creating default /etc/ssh_config file
*** Query: Overwrite existing /etc/sshd_config file? (yes/no) yes
*** Info: Creating default /etc/sshd_config file
             Info: StrictModes is set to 'yes' by default.
Info: This is the recommended setting, but it requires that the POSIX
Info: permissions of the user's home directory, the user's .ssh
Info: directory, and the user's ssh key files are tight so that
Info: only the user has write permissions.
Info: On the other hand, StrictModes don't work well with default
Info: Windows permissions of a home directory mounted with the
Info: 'onacl' option, and they don't work all if the home
Info: directory is on a FAT or FAT32 partition.
Query: Should StrictModes be used? (yes/no) yes
      ××
      жж
    жж
    <del>....</del>
    **
            Info: Privilege separation is set to 'sandbox' by default since
Info: OpenSSH 6.1. This is unsupported by Cygwin and has to be set
Info: to 'yes' or 'no'.
Info: However, using privilege separation requires a non-privileged account
Info: called 'sshd'.
Info: For more info on privilege separation read /usr/share/doc/openssh/README.privsep.
Guery: Should privilege separation be used? (yes/no) yes
Info: Updating /etc/sshd_config file
    жж
    **
    XX
    ××
    ××
              Query: Do you want to install sshd as a service?
Query: (Say "no" if it is already installed as a service) (yes/no) yes
Query: Enter the value of CYGWIN for the daemon: []
Info: On Windows Server 2003, Windows Vista, and above, the
Info: SYSTEM account cannot setuid to other users — a capability
Info: sshd requires. You need to have or to create a privileged
Info: account. This script will help you do so.
    **
     жж
             Info: It's not possible to use the LocalSystem account for services
Info: that can change the user id without an explicit password
Info: (such as passwordless logins [e.g. public key authentication]
Info: via sshd) when having to create the user token from scratch.
Info: For more information on this requirement, see
Info: https://cygwin.com/cygwin-ug-net/ntsec.html#ntsec-nopasswd1
     ××
    ***
      ××
      жж
      жж
             Info: If you want to enable that functionality, it's required to create
Info: a new account with special privileges (unless such an account
Info: already exists). This account is then used to run these special
Info: servers.
    -----
     .....
    *** Info: Note that creating a new user requires that the current account *** Info: have Administrator privileges itself.
 *** Info: This script plans to use 'root'.
*** Info: 'root' will only be used by registered services.
   *** Info: The sshd service has been installed under the 'root'
*** Info: account. To start the service now, call `net start sshd' or
*** Info: `cygrunsrv -S sshd'. Otherwise, it will start automatically
*** Info: after the next reboot.
*** Info: Host configuration finished. Have fun!
ADUNSW+root@gpfs2-pc:~ $
```

8.7 Start the ssh server with: cygrunsrv --start sshd

GPFS Admin Korn Shell	×
*** Info: SYSTEM account cannot setuid to other users a capability *** Info: sshd requires. You need to have or to create a privileged *** Info: account. This script will help you do so.	Â
*** Info: It's not possible to use the LocalSystem account for services *** Info: that can change the user id without an explicit password *** Info: (such as passwordless logins [e.g. public key authentication] *** Info: via sshd) when having to create the user token from scratch. *** Info: For more information on this requirement, see *** Info: https://cygwin.com/cygwin-ug-net/ntsec.html#ntsec-nopasswd1	
*** Info: If you want to enable that functionality, it's required to create *** Info: a new account with special privileges (unless such an account *** Info: already exists). This account is then used to run these special *** Info: servers.	
**** Info: Note that creating a new user requires that the current account *** Info: have Administrator privileges itself.	
**** Info: This script plans to use 'root'. **** Info: 'root' will only be used by registered services.	
*** Info: The sshd service has been installed under the 'root' *** Info: account. To start the service now, call `net start sshd' or *** Info: `cygrunsrv -S sshd'. Otherwise, it will start automatically *** Info: after the next reboot.	
*** Info: Host configuration finished. Have fun! ADUNSW+root@gpfs2-pc:~ \$ cygrunsrvstart sshd ADUNSW+root@gpfs2-pc:~ \$ ssh root@129.94.120.62 The authenticity of host '129.94.120.62 (129.94.120.62)' can't be established. RSA key fingerprint is SHA256:Dbwx31nfLUbM8zdM4WKt+C3hDawcPWROYSUbGQuz10. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '129.94.120.62' (RSA) to the list of known hosts. root@129.94.120.62's password: Last login: Wed Aug 31 15:30:58 2016 from gpfs02 Iroot@ls-vm1 ~]#	•

- 9. Create a local ssh key with, "ssh-keygen -t rsa", then press enter to get the defaults
- 10. ssh to DDN VM at 129.94.120.62 as root via GPFS Admin Korn Shell "ssh 129.94.120.62"
- 11. Edit /etc/hosts and ensure that the ip address of the new client is there

GPFS Admin Korn Shell	- • ×
127.0.0.1 localhost localhost.localdomain localhost4.localdomain4 ::1 localhost localhost.localdomain localhost6 localhost6.localdomain6 129.94.120.61 ls=vm1 129.94.120.61 ls=vm2 129.94.120.60 ls=vm3 129.94.120.57 Z7-00079 129.94.165.35 gsclient21 129.94.164.87 gsclient22 129.94.120.38 gs2kc0	
129.94.120.39 gs7kc1 129.94.120.27 master mwacddn 129.94.165.33 lecia01 129.94.165.36 gpfs02	
"/etc/hosts" [dos] 15L, 473C	·

12. Copy this file back to the client machine

[root@ls-vm1 ~]# vi /etc/hosts				
[root@ls-vm1 ~]# scp .ssh/authorized_keys gpfs02:.ssh				
The authenticity of host 'gpfs02 (129.94.165.36)' can't be esta	ablished	-		
RSA key fingerprint is df:97:74:9d:84:80:cb:af:cc:43:cc:bd:0c:d	lc:94:2e	_		
Are you sure you want to continue connecting (yes/no)? yes				
Warning: Permanently added 'gpfs02,129.94.165.36' (RSA) to the	list of	known	hosts.	
rootCgpfs02's password:				
authorized_keys	100%	1783	1.7KB/s	00:00
[root@ls-vm1 ~]# scp /etc/hosts gpfs02:				
hosts	100%	473	Ø.5KB/s	00:00
[root@ls-vm1 ~]#				

- 13. Copy the vm's authorized_keys file to the client with the command "scp ~/.ssh/authorized_keys gpfs02:/root/.ssh/"
- 14. In another shell on the client, add the contents of the hosts file that you just copied to the local machines hosts file using: cat hosts >> /cygdrive/c/windows/system32/drivers/etc/hosts

■ GPFS Admin Kom Shell root@gpfs2-pc:~ \$ cat hosts >> /cygdrive/c/windows/system32/drivers/etc/hosts root@gpfs2-pc:~ \$

- 15. If the node already exists on the GPFS cluster (node reinstallation), then you can add it back to the cluster, using the commands as shown bellow
 - 15.1 [root@ls-vm1 ~]# mmauth genkey propagate -N gpfs02
 - 15.2 [root@ls-vm1~]# mmsdrrestore -N gpfs02
 - 15.3 [root@ls-vm1 ~]# mmstartup -N gpfs02
- 16. If auto-installation not working properly, go to GS3 folder to run 3 programs from the top one by one.

					×
GS3 ► I	BM_SPECTRUM_SCALE_STNDWx86_4.1.1.2	• 4 ₇	Search IBM_SPECTRUM	_SCALE_STND.	. P
Organize 👻 Include in	n library 🔻 Share with 👻 New folder			•	0
☆ Favorites	Name	Date modified	Туре	Size	
🧮 Desktop	😼 gpfs.ext-4.1.1.2-Windows	1/20/2016 12:08 PM	Windows Installer	35,660 KB	
🐌 Downloads	😼 gpfs.ext-4.1.1-Windows-license	1/20/2016 12:08 PM	Windows Installer	61,244 KB	
🕮 Recent Places	😽 gpfs.gskit-8.0.50.47	1/20/2016 12:08 PM	Windows Installer	10,984 KB	
	README	1/20/2016 12:08 PM	File	19 KB	
🥽 Libraries					
Documents					
👌 Music					
Pictures					
Videos					
🖳 Computer					
🚢 Local Disk (C:)					
👝 gpfs01 (G:)					
🖵 emunit (\\129.94.164					
🙀 Network					
4 items					

17. Add client node to GPFS with "mmaddnode -N gpfs02" and then accept the license

"mmchlicense client --accept -N gpfs02"

GPFS Admin Korn Shell	
<pre>root@gpfs2-pc:~ \$ ssh ls-um1 The authenticity of host 'ls-um1 (129.94.120.62)' can't be established. RSA key fingerprint is SHA256:Dbwx31nfLUbM8zdM4WKt+C3hDawcPWR0YSUbG0Quz10. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added 'ls-um1' (RSA) to the list of known hosts. root@ls-um1's password: Last login: Wed Aug 31 17:06:05 2016 from gpfs02 Iroot@ls-um1 "J# mmaddnode -N gpfs02 Wed Aug 31 17:23:24 AEST 2016: mmaddnode: Processing node gpfs02 mmaddnode: Command successfully completed mmaddnode: Warning: Not all nodes have proper GPFS license designations. Use the mmchlicense command to designate licenses as needed. mmaddnode: Propagating the cluster configuration data to all affected nodes. This is an asynchronous process. Iroot@ls-um1 "J# mmchlicense clientaccept -N gpfs02 The following nodes will be designated as possessing GPFS client licenses: gpfs02</pre>	A H
mmchlicense: Command successfully completed mmchlicense: Propagating the cluster configuration data to all affected nodes. This is an asynchronous process.	

- 18. To start up node, type "mmstartup" and enter on the local node terminal
- 19. Check gpfs02 status, type "mmgetstate" to confirm if gpfs02 is active, if not, just wait and check again till gsclient becomes active



20. mount gpfs, type "mmmount gpfs01" and enter on the local terminal, it may take 2 minutes to mount. You may need to click on the Windows driver prompt and tell it to accept the gpfs client driver

IBM_MMFS_Cluster_00001	Device unplugged	
IBM GPFS Volume Manager	Ready to use	
What can I do if my device did not ins	tall properly?	
	C	ose
A to Dis		
gpfs01 (G:)		
gpfs01 (G:)		
gpfs01 (G:) General options		
gpfs01 (G:) General options Open folder to view files using Windows Explorer		

21. After reboot, G drive may take a 2 minutes to shown up on My Computer depending on the pc and network performance