

# Customer Information Template

## Cluster naming

Service	Value
Cluster name	Ex: mysnowcluster
Node naming schema	Ex: n001 - n100
Login system Hostname	Ex: login01.mydomain.com
Default root pw snow01	my\$trongPa\$\$@27;
Default root pw on nodes	Leave empty if you want the same

## Cluster & Network Services

Service	Provider *	Value
Site DNS server(s)		Ex: 8.8.8.8, 8.8.4.4
Site Domain name		Ex: .mydomain.com
Cluster Domain name		Ex: .cluster.mydomain.com
LDAP Server(s)		Ex: ldap01.mydomain.com
LDAP Base DN		Ex: dc=mydomain,dc=com
LDAP CA certificate		
LDAP TLS certificate		
NTP Server(s)		Ex: ntp.mydomain.com
Mail server	1	Ex: mail.mydomain.com
Mail server auth?	1	Ex: Auth required, user/password
Mail account for alerts	1	Ex: it-alerts@mydomain.com

\*) 1 = Service provided by the customer, 2 = Service installed by HPCNow

# Networks

The following are the cluster internal networks that will not be visible from the house network. Please do not change them unless you have a reason to do it.

Use the Comment column if there is anything special to consider.

Name	Suffix	Network	Gateway	Compute nodes subnet
Administration		10.0.0.0/16	10.0.0.1	10.0.1.0/24
Low latency	-ib	10.1.0.0/16	-	10.1.1.0/24
Management	-mgmt	10.2.0.0/16	-	10.2.1.0/24
Public	-pub			
DMZ	-dmz	172.16.0.0/24	172.16.0.1	

Where:

- Administration network is used for SSH and provisioning
- Low latency network is used for MPI communication, fast access to cluster file system
- Management network is used for IPMI/BMC
- Public network is used for public facing services (usually managed by site DHCP)
- DMZ network is used for DMZ facing services

## Site network public or DMZ IPs

Some nodes will need to be exposed on your site network. Specify an free IP address for them. Specify DHCP if DHCP is going to be used.

Node	IP	Mask	Gateway	Comments
snow01				
snow01-ipmi				
login01				
monitor01				

## Filesystems to mount on the compute nodes

Please specify the file systems that need to be mounted on the nodes. For instance you might have your applications in myserver:/software or your scratch filesystem in a Lustre server pool.

Filesystem	Provider <sup>1</sup>	Protocol <sup>2</sup>
/home		
/sNow		
/scratch		
/project		

<sup>1</sup> 1 = Service provided by the customer, 2 = Service installed by HPCNow!

<sup>2</sup> E.g. BeeGFS, GPFS, Lustre, NFS, ...

## Users & Groups

If the LDAP authentication service is installed by HPCNow, users and groups that need to be created. Fill the UID/GID only if it is mandatory, if not the default provided by the system will be used

User	UID	Group	GID
xsnow			

## Workload Manager

Indicate what workload manager should be installed: Slurm/Torque/PBS/LSF

Feel free to describe how the queues should be configured and which restrictions should be included.

Partition	Nodes	Walltime limit	Preemption Mechanism	Priority

<b>low</b>	n001-n100	168h	suspension	
<b>medium</b>	all	24h	no	
<b>high</b>	all	6h	no	
<b>requeue</b>	all	168h	requeue	

## Scientific Applications and Development Tools

Software	Release	Options	Comments
LMOD	latest	Flat schema	
EasyBuild	latest		
FOSS toolchain	2017a		
Intel toolchain	2017a		License required
Supermagic	latest		
HPL	latest		

## Monitoring Tools

- sNow! managed ganglia.
- sNow! managed icinga.
- Site managed ganglia<sup>1</sup>.
- Site managed icinga/nagios/etc<sup>1</sup>.

<sup>1</sup> Client configuration is required.



