## Site Survey

## Site requirements checklist for setting up an InstaGeni rack

These are site requirements for setting up your InstaGeni rack. Before we can proceed, each of the items in this checklist needs to complete.

- Have you read through the <u>www.protogeni.net/wiki/rack-deployment</u> page: \_\_Y\_\_ (Y/y)
- Does the back of your InstaGENI rack look like this diagram (<a href="http://www.protogeni.net/wiki/rackback.jpg">http://www.protogeni.net/wiki/rackback.jpg</a>)? \_\_Y\_\_ (Y/y) If the answer is NO, then contact us immediately!

Pay special attention to slot U38; Make sure the line card is on the left side of U38.

•	Domain for your rack:instageni.your.domain.net
Thi	is should look something like instageni.foo.bar.edu.
•	IP subnet range to be used as public and routable along with netmask for your rack: _198.248.240.190/26
Thi	is should be a static subnet and at <i>least</i> a /26 (64 hosts);

**Emulab must serve as the DNS server and DHCP server for the subnet** (and the uplink should not pass DHCP packets through).

- IP for the default router on your rack subnet: \_\_\_\_\_*Not sure*\_\_\_\_\_
  - IP for your DNS forwarder(s). There can be several of these of course: Primary DNS 129.237.125.220 Secondary DNS 164.113.221.250 Tertiary DNS 164.113.207.250
- Delegation of the forward DNS zone has been done: \_\_\_\_ (Y/y)

Once you tell us the subnet and mask, we can assign IPs to the nodes in the rack, in particular the name server. For example, on a /24 network the name server would be XXX.YYY.ZZZ.4, while on a /25 network it would XXX.YYY.ZZZ.4 or XXX.YYY.ZZZ.132 (if the subnet is the upper half). On a /26 it would be one of XXX.YYY.ZZZ.4, XXX.YYY.ZZZ.68, XXX.YYY.ZZZ.132, orXXX.YYY.ZZZ.196 (depending on which quadrant of the subnet).

Your campus network people will need to place (something like) this in their zone file:

ns.instageni	IN	A	198.248.240.196
instageni	IN	NS	ns.instageni
instageni	IN	NS	ns.emulab.net.

As you can see, Utah Emulab will serve as a backup name server for the rack.

•	100	ir rack is	outside your campus mewan: _r (1/14)			
Thi	s is	the simp	lest solution since a number of ports are required for the rack to operate properly.			
•	If you answered <b>No</b> to the previous question, are the following ports are allowed through your campus/network firewall, to the <b>entire</b> rack subnet: $\_\_\_$ (Y/y)					
		22	- ssh			
		25	- smtp (outbound connections only, from boss/ops)			
	•	80	- http (must also allow outbound connections from boss/ops)			
	•	443	- https (must also allow outbound connections from boss/ops)			
	•	843	- Flash Policy Server			
	•	3626	- FOAM XMLRPC			
	•	12369	- InstaGeni XMLRPC			
	•	17990	- iLo remote console			
	•	17988	- iLo remote media			
	•	30000+	- Ports used by software.			
•	Ful	l name a	nd phone number of the local administrator:			
		•	name:Admin Name,			
			phone:785 555 2925			
	Dro	formed la	gin id (username) for the local administrator:admin@your.domain.net			
			istrator will have accounts on the infrastructure nodes (control, boss, ops, foam,			
and	ı rio	wvisor h	osts).			
•	Em	ail addre	ess for the local administrator: admin@your.domain.net			
•	Ver	sion 2 S	SH public key for the local administrator. Please attach.			
Thi	s m	ust be a	real person, not a pseudo user. An administrator account will be built on the control			
noc	de, f	rom whi	ch other admin accounts can be added. See			
<u>htt</u>	p://	groups.g	eni.net/geni/wiki/GENIRacksAdministration/InstaGENIAdministration for more			
det	ails	on mana	aging local administrative accounts.			
•	Op	tional, bi	ut recommended, local email lists for InstaGENI rack status and logging messages:			
The	e loc	al admir	istrator starts out as the sole receiver of these email messages, but if you provide			
alte	erna	te addre	sses (say, exploders) we can send the email there instead. Just let us know. You			
rea	really want separate lists (exploders), not a single list!					

External network information:

1.	Is the mesoscale (openflow) vlan number 1750??? (Y/N) If not, what number is
	it:
2.	We need to know what port on the data switch will bring in the mesoscale vlan. If you
	have the all-copper module, we suggest that you use port 24 for the upwire to the
	switch providing that vlan. If you use a different port, be sure to tell us!
3.	We also need to know any other external connections such as ION, NLR, etc. For each
	of these connections, we need to know what port on the data plane switch it comes in

•	One-word	ID for where the machines are (e.g. GPOLab, Utah,
	etc.):	_ORGNAME

For monitoring purposes (reporting to GMOC), we need a one-word ID. This should be unique among all InstaGENI sites, so something related to your organization or location is best.

•	Canonical organization name, may contain spaces (e.g. University of Utah, BB	١N
	Technologies):_Your Organization Name	

on, what vlan numbers are available, and the endpoint.