

Time (in minutes) of Openstack deployment depending on the method, the number of computes nodes and the Chameleon site (UC or TACC)

Chameleon Site	UC					TACC					+	-
	1	2	4	8	16	1	2	4	8	16		
DevStack (Mitaka) Add 2 minutes to have Dashboard access	27	27	27	31		28	28	28	28	28	Simple to deploy Maintained by external team	We don't know when the deployment is really over A little longer than the other methods No floating IP : It's more complicated to SSH to VM Admin password hardcoded
xp5k (Literal Approach, with frontend)	33	No multinodes for the moment				39	No multinodes for the moment				Closest to what is done on Grid'5000	Longest method (puppet server + frontend to deploy) No floating IP : It's more complicated to SSH to VM Unsecure : No Heat agent : private SSH key hardcoded in template Problem with Network : How to use sharednet without IP conflict ?
liberty.yaml (shared network) More packages in controller image	20	20	21	21	25	22	24	26	25	27	We know when the deployment is really over Fastest method Custom admin password	No floating IP : It's more complicated to SSH to VM More image to manage (one image for controller and one for compute nodes)
liberty_net_isolation.yaml More packages in controller image	20	20	21	21		No network isolation on TACC					We know when the deployment is really over Fastest method	No floating IP : It's more complicated to SSH to VM More image to manage (one image for controller and one for compute nodes) Not possible on TACC
liberty_multinodes.yaml (network != glance != controller) Only Puppet agent included in images		23					29					
Controller = puppet srv, shared network Only Puppet agent included in images	24					26-28					Faster than Devstack We know when the deployment is really over	No floating IP : It's more complicated to SSH to VM
Controller = puppet srv, isolated network Only Puppet agent included in images	24	24	24	25	26	No network isolation on TACC					Allow floating IP (connection from controller by forwarding SSH agent) We know when the deployment is really over	Needs that the user create a isolated network (see Chameleon documentation) Not possible on TACC

Longest deployment time
Fastest deployment time
Instable, needs multiple try to succeed
Obsolete method

Note : The same measure at different time of the day can have 2 or 3 min different. Probably due to the site usage. I put the time value that shows up most of the time
Note : It's sometimes hard to make a deployment with 16 nodes, if we encounter 1 node that is unreachable for any reasons, it blocks the entire deployment.

Time between steps in general : 0-4 min deploy / 4-8 min hosts populate / 8-10 min bootstrap puppet server / 10-17 min controller / 27-21 min compute / done

