	Title	Effort Start	
	<ul> <li>1) Identify need</li> <li>1.1) # of racks needed</li> <li>1.2) total # of Kw</li> </ul>	4w Tda 2w Tda 2w Tda	у
	<ul> <li>▼ 2) Internal Steps:</li> <li>• 2.1) Set up a wiki/documentation area</li> </ul>	1w 3d T da 2d T da	у
	<ul> <li>2.2) set up folders for documentation/contracts etc.</li> <li>2.3) spreadsheets for U level layouts, bins, inventory etc.</li> </ul>	2d Tda 2d Tda	у
	<ul> <li>• 2.4) set up meeting cadence</li> <li>▼ 3) Sample topology</li> <li>• 3.1) sample bom</li> </ul>	2d T da 5w 2d T+10 1w 3d T+10	0d 1, 2
	<ul> <li>3.2) Sample U, and cabinet layout</li> <li>3.3) Topology defined</li> </ul>	4d T+10 4d T+10	Od
	<ul> <li>3.4) estimate budget</li> <li>3.5) Security review</li> </ul>	1w T+10 4d T+10	Od
	<ul> <li>3.6) Project initial review</li> <li>4) RFP:</li> <li>4.1) Create and issue a RFP.</li> </ul>	2d T+10 7w T+18 3w T+18	3 3
	<ul> <li>4.1) Greate and issue a firm.</li> <li>4.2) review answers</li> <li>4.3) Follow up questions/answers</li> </ul>	2w T+43 2w T+43	3d 4.1
	<ul> <li>5) Location Selection</li> <li>5.1) Review locations</li> </ul>	11w T+53 2w T+53	Bd
	<ul> <li>5.2) See locations</li> <li>5.3) Examine 1 lines, and ops processes</li> </ul>	1w T+63 2d T+68	3d 5.2
	<ul> <li>5.4) Finalize locations</li> <li>5.5) Receive/review quote</li> <li>5.6) Review cage layout</li> </ul>	1w T+70 2d T+75 2d T+77	5d 5.4
	<ul> <li>5.7) Review contract paperwork</li> <li>5.8) update budget</li> </ul>	4w T+79 2d T+99	
	<ul> <li>5.9) Sign MSA (Master Services Agreement)</li> <li>5.10) Sign Order (actual order)</li> </ul>	1w T+10 2d T+10	06d 5.9
$\Diamond$	<ul> <li>◆ 5.11) Get a "SPACE READY DATE"</li> <li>▼ 6) Electrical Work</li> <li>• 6.1) Refine Scope of work</li> </ul>	0h T+10 4w 2d T+52 1w 2d T+53	2d 4
	<ul> <li>6.2) (eg: Busbar, breakers, grounding etc.)</li> <li>6.3) Quote received</li> </ul>	0h T+52 2w T+60	2d
	<ul><li>• 6.4) order signed</li><li>▼ 7) Cabling Contractors</li></ul>	1w T+10 4w T+53	
	<ul> <li>7.1) Review cable map</li> <li>7.2) Quote received</li> <li>7.3) order signed</li> </ul>	1w T+53 2w T+58 1w T+10	3d 7.1
	<ul> <li>7.3) order signed</li> <li>8) Misc contractors</li> <li>8.1) (eg: bolt down system),</li> </ul>	4w Tda 1w Tda	у
	<ul> <li>8.2) Quote received</li> <li>8.3) order signed</li> </ul>	2w T+5c 1w T+10	d 8.1
	<ul> <li>9) structural engineering review</li> <li>10) permit review and approvals.</li> </ul>	1w T+75 5w T+80	Od 5.4, 8.2, 9
	<ul> <li>11) Select Network providers</li> <li>11.1) confirm providers are on-net</li> <li>11.2) Receive/review quote</li> </ul>	6w T+75 4d T+75 1w T+79	5d 5.4
	<ul> <li>11.2) Receive/review quote</li> <li>11.3) Review contract paperwork</li> <li>11.4) update budget</li> </ul>	3w T+84 2d T+99	4d 11.2
	<ul> <li>11.5) Sign MSA (Master Services Agreement)</li> <li>11.6) Sign Order (actual order)</li> </ul>	2d T+10 2d T+10	01d 11.4 08d 5.10, 11.5
$\Diamond$	<ul> <li>◆ 11.7) get a Firm Order Commit (FOC) date.</li> <li>▼ 12) Peering fabric</li> <li>• 12 1) confirm fabrics that are available</li> </ul>	0h T+10 6w 4d T+75 2d T+75	5d 5.4
	<ul> <li>12.1) confirm fabrics that are available</li> <li>12.2) Receive/review quote</li> <li>12.3) Review contract paperwork</li> </ul>	2d T+75 2w T+77 1w T+87	7d 12.1
	<ul> <li>12.4) update budget</li> <li>12.5) Sign MSA (Master Services Agreement)</li> </ul>	1w T+92 2w T+97	2d 12.3 7d 12.4
	<ul> <li>12.6) Sign Order (actual order)</li> <li>▼ 13) vendor set up - sundries</li> <li>• 13.1) grainger</li> </ul>	2d T+10 3w 3d T+18	3 3
	<ul><li>13.1) grainger</li><li>13.2) anixter</li><li>13.3) graybar</li></ul>	2d T+18 2d T+18 2d T+18	Bd
	<ul> <li>13.4) amazon</li> <li>13.5) cdw</li> </ul>	2d T+18 2d T+18 2d T+18	Bd
	<ul><li>13.6) Quail</li><li>13.7) DatacenterGear</li></ul>	2d T+18 2d T+18	Bd
	<ul> <li>13.8) FiberStore</li> <li>13.9) Flexoptix</li> <li>14) vender set up network receller</li> </ul>	2d T+18 2d T+18 5w 2d T+18	Bd
	<ul> <li>14) vendor set up - network reseller</li> <li>14.1) interview resellers,</li> <li>14.2) request quote</li> </ul>	2w T+18 1w T+28	Bd
	<ul> <li>14.3) Review contract paperwork</li> <li>14.4) Sign Order (actual order)</li> </ul>	2w T+33 2d T+43	3d 14.2
	<ul><li>▼ 15) vendor set up - Integrator</li><li>• 15.1) interview integrators</li></ul>	7w 3d T+10 2w T+10	08d 3
	<ul> <li>15.2) visit location</li> <li>15.3) Request quote</li> <li>15.4) Povious contract paparaget</li> </ul>	1w T+10 2w T+11	13d 15.2
	<ul> <li>15.4) Review contract paperwork</li> <li>15.5) revise bom</li> <li>15.6) layout and cabling verification</li> </ul>	2d T+12 4d T+12 1w T+12	25d 15.4
	<ul> <li>15.7) Sign Order (actual order)</li> <li>▼ 16) Sundries:</li> </ul>	2d T+13 1w 2d T+18	5.11, 15.6
	<ul> <li>16.1) add parts to shopping lists</li> <li>16.2) update budget</li> </ul>	4d T+18 1d T+18	Bd
	<ul> <li>• 16.3) order parts.</li> <li>▼ 17) LOCAL RIR (eg: ARIN)</li> <li>• 17.1) Create POC Record</li> </ul>	2d T+10 7w 2d T+18 2d T+18	3 3
	<ul> <li>17.1) Greate F OG Record</li> <li>17.2) Create ORGid</li> <li>17.3) ASN Request</li> </ul>	1w T+20 1w T+25	Od 17.1
	<ul> <li>17.4) IPv6 request</li> <li>17.5) IPv4 transfer pre-approval</li> </ul>	1w T+30 1w T+35	
	<ul> <li>17.6) IPv4 waiting list</li> <li>17.7) procure IPv4 space from broker market</li> </ul>	1w T+40 1w T+45	5d 17.6
	<ul> <li>17.8) Update Budget</li> <li>17.9) Create Routing Objects.</li> <li>17.10) Update network providers on IP/ASN info</li> </ul>	1d T+50 2d T+51 2d T+53	1d 17.8
	<ul> <li>18) IMPLEMENTATION PHASE</li> <li>19) Increase meeting cadence</li> </ul>	0h T+10 1d T da	09d 5, 10, 11
	<ul> <li>▼ 20) Integrator</li> <li>• 20.1) Rack build time (parts arrival)</li> </ul>	6w 3d T+75 4w T+75	ōd
	<ul> <li>20.2) Confirm rack assembly.</li> <li>20.3) provide pre-configuration (if needed)</li> <li>20.4) verify appropriate code revs.</li> </ul>	2d T+95 4d T+97 1d T+10	7d 20.2
	<ul> <li>20.5) verify appropriate cabling</li> <li>20.6) Rack shipped to datacenter</li> </ul>	1d T+10	02d 20.4
	<ul><li>▼ 21) Location</li><li>• 21.1) Power circuits delivered</li></ul>	20w 2d T+10 5w T+10	08d 5 08d
	<ul> <li>21.2) low voltage cabling work</li> <li>21.3) misc (eg: bolt down system) work</li> <li>21.4) keycard/palm/fingerprint reader installed</li> </ul>	5w T+10 3w T+10 5w T+10	08d
<b>\Q</b>	◆ 21.5) Cage ready	0h T+13	21.1, 21.2, 21.3, 21.4
	<ul> <li>21.6) Confirm ability to open tickets</li> <li>21.7) confirm ability to visit</li> <li>21.8) Open tickets for all incoming shipments</li> </ul>	1d T+13 1d T+13 4d T+13	33d 21.5
	<ul> <li>21.8) Open tickets for all incoming shipments</li> <li>21.9) Open tickets for all needed crossconnects</li> <li>21.10) Open tickets for boltdown</li> </ul>	4d T+13 2d T+13 2d T+13	33d 21.5
	<ul> <li>• 21.11) Open tickets to energize power</li> <li>▼ 22) Racks-Ready</li> </ul>	2d T+13 4w 4d T+13	33d 21.5 37d
	<ul> <li>22.1) Racks received at datacenter</li> <li>22.2) Racks placed in datacenter</li> <li>22.3) racks holted down</li> </ul>	3d T+13 3d T+14 3d T+14	40d 22.1
	<ul> <li>22.3) racks bolted down</li> <li>22.4) racks powered on.</li> <li>22.5) Panels are set up to receive xconnects.</li> </ul>	3d T+14 3d T+14 2d T+14	46d 22.3
	<ul> <li>22.6) routers / switches BASE Config.</li> <li>22.7) rack to spine interconnect cabling</li> </ul>	1w T+14	19d 22.4
	<ul> <li>▼ 23) Sundries work</li> <li>• 23.1) Sundries arrive</li> </ul>	3w 4d T+13 3w T+13	37d 21
	<ul> <li>• 23.2) Sundries unpacked/assembled</li> <li>▼ 24) Network Provider bringup</li> <li>• 24.1) Network provider xconnect finished</li> </ul>	4d T+15 1w 1d T+15 1w T+15	54d
	<ul> <li>• 24.1) Network provider xconnect finished</li> <li>• 24.2) Network provider link working</li> <li>▼ 25) Peering Fabric</li> </ul>	1w T+15 1d T+15 1w 1d T+15	59d 24.1
	<ul> <li>25.1) Peering fabric xconnect finished</li> <li>25.2) Peering Fabric link brought up</li> </ul>	1w T+15	54d 22.6 59d 25.1
	<ul> <li>26) Networking</li> <li>26.1) Routing ROAs created</li> <li>26.2) Test all route objects.</li> </ul>	1w 4d T+16 2d T+16 2d T+16	60d 24
	<ul> <li>26.2) Test all route objects.</li> <li>26.3) Network Configuration Final</li> <li>27) OOB verification</li> </ul>	2d T+16 1w T+16 1w T+16	54d 26.2
	<ul> <li>28) Documentation final updates</li> <li>▼ 29) Server Imaging</li> </ul>	2w T+17 6w T+16	74d 26, 27 69d 26
	<ul> <li>29.1) Server services created (eg: Dns, dhcp)</li> <li>29.2) Web/app/db configuration</li> <li>29.3) Server end to end tests</li> </ul>	1w T+16 3w T+17 1w T+18	74d 29.1
	<ul> <li>29.3) Server end to end tests</li> <li>29.4) Stress test</li> <li>▼ 30) Monitoring:</li> </ul>	1w T+18 1w T+19 6w T+18	94d 29.3
	<ul> <li>30.1) Syslog, snmp Sflow monitoring</li> <li>30.2) System Monitoring</li> </ul>	1w T+18 2w T+18	39d
	<ul> <li>30.3) Grafana dashboards.</li> <li>30.4) Alerting/escalation</li> </ul>	2w T+19 1w T+20	09d 30.3
	<ul> <li>31) Failure Testing</li> <li>31.1) Fail a server (remove a drive, remove the network) - confirm alerts come in, confirm tickets are filed, and impact</li> <li>31.2) Fail a network device. Confirm alerts come in, tickets filed, etc.</li> </ul>	6w 1d T+21 3d T+21 3d T+21	14d
	<ul> <li>31.2) Fail a network device. Confirm alerts come in, tickets filed, etc.</li> <li>31.3) Fail a rack of equipment. Confirm alerts, tickets etc.</li> <li>31.4) Fail and restore the DC, confirm things come back up as expected. Document, and resolve issues.</li> </ul>	3d T+21 1w T+22 1w T+22	20d 31.2
	<ul> <li>31.4) Fall and restore the BO, Commit things come back up as expected. Bocument, and resolve issues.</li> <li>31.5) Test rolling back a deployment</li> <li>31.6) Benchmark the site, and see what your limitations are.</li> </ul>	1w T+23 1w T+23 2w T+23	31.4
	<ul><li>▼ 32) Cutover</li><li>• 32.1) Data migration to site</li></ul>	3w T+24	15d
$\Diamond$	◆ 32.2) GO LIVE  ▼ 33) POST INSTALL  • 33.1) Archive of old site	0h T+25 16w T+26 8w T+26	60d
	<ul> <li>33.1) Archive of old site</li> <li>33.2) Removal of old site</li> <li>34) Every quarter moving forward:</li> </ul>	8w T+26 8w T+26 0h T+25	32.2
♦	<ul> <li>34.1) Review ongoing capacity plan.</li> <li>34.2) Send forecast to integrator / vendors</li> </ul>	0h T+25 0h T+25	59d
♦	<ul> <li>34.3) Order additional power as needed</li> <li>34.4) Order additional space as needed etc.</li> </ul>	0h T+25 0h T+25	59d 59d
$\Diamond$	◆ 34.5) Review a DR Plan.	0h T+25	59d