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Last update: 22 December 2016

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**Goal of this document:** Use to capture major parts of the Intel MWC booth EPA Cloudify vRouter demo.

**Desired outcomes:**  
1. Demo at MWC (messaging: working code, flexibility and modularity), create interest and leads by showing how NFV throughput performance varies depending on proper VNF workload placement (with or without EPA recognizing and configuring HW in NFVI), and interoperability of stacks with OpenStack and VMware – through Cloudify orchestration support.  
2. Cloudify with EPA features, documented on GigaSpaces/Cloudify web/blog  
3. EPA Cloudify with CloudRouter on Github for easy CommSP POCs  
4. Ramp Intel expertise on full EPA stack, ramp GigaSpaces expertise on EPA  
After MWC:  
5. Push select CommSP POCs to replidate Github setup

**Timing:**  
WW51: Italian university lab HW and WMware ready, remote access login enabled. TBC Red Hat license available.  
WW52: Marco installing VMware Integrated OpenStack (VIO). New Mexico lab HW setup ready.  
WW1: Red Hat installation, ready for remote access.  
WW2+?: integrate VNF  
WW3-6?: finalize demo title and text, draft presentation, scripts, signage  
WW7: finalize demo setup and demo script  
WW8: last checks, finalize presentation  
WW9: MWC Barcelona, demo booth setup and booth duty, demo showing  
WW10: post version on Github, blog on GigaSpaces web

**Labs:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Location** | **Org** | **SW spec** | **HW spec** | **Comment** |
| New Mexico US | SSG DRD | Red Hat OpenStack | 4 x (2S E5-26xxv3, 2 x 2p XL710 40G, x GB RAM) |  |
| Italy | University, Marco Righini | VMware | Dell PowerEdge R730xd, 4 x (2S E5-2637v3, 1 x 4p 10G, 128GB RAM) |  |
| Israel | SSG DRD, Eli | TBD | 2 x (2S ?) | HW setup WIP |

**Dataplane workload options:**

|  |  |  |
| --- | --- | --- |
| **Function** | **Implementation** | **Comment** |
| Load generator | Pktgen-dpdk ( <https://github.com/Pktgen/Pktgen-DPDK> ,) | basic for start, should be good enough |
| DPPD\PROX configured as packet generator (<https://01.org/intel-data-plane-performance-demonstrators/overview> ) | more advanced |
| Dataplane VM | TBC Cloud Router ([https://cloudrouter.org](https://cloudrouter.org/) ) | open source incl. DPDK, unknown performance |
| Vyatta vRouter | Brocade incl. DPDK, well optimized |
| DPPD\PROX configured as prototype application TBD | open source incl. DPDK, great performance |
| monitor | TBD | something to visualize system performance getting counters from TBD where |

**Config:**Traffic generator to hit 1st VM. Enough chained VMs to load system, last dropping packets. TBD switching. Orchestration to do correct workload placement for everything from generator over VMs to monitor.