

The following prerequisites are required to install the Beam application. Please refer to the documentation and your professional services representative for additional details.

**Documentation**, for illustrated, step-by-step instructions

- ☐ Cluster Deployment Guide .PDF
- ☐ Software Installation Guide .PDF

**Software**, to install on virtual machines and Qumu VCC servers

- ☐ Beam cluster .OVA file
- ☐ Client installer containing the Qumu VCC skinpack addition

**Virtual Machines**, to host the application and time series database

- ☐ Five virtual machines with dual core CPUs, 8 GB RAM, and 80GB of storage
- ☐ IP addresses of each virtual machine

**SSL Certificates**, to enable HTTPS on the application

- ☐ PEM formatted, Nginx compatible SSL certificate for `beam-cluster.example.com`

**DNS Setup Options**, to provide a network address for the virtual machines

- ☐ Round-robin DNS for the five virtual machines
- ☐ Load balancer for the five virtual machines at `beam-cluster.example.com`

**External Network Ports**, for end-users to communicate with the virtual machines

- ☐ Inbound and outbound port 443
- ☐ Inbound port 22

**Internal Network Ports**, for the virtual machines to communicate with each other

- ☐ Inbound and outbound on all ports
  - ☐ Uses 22, 80, 443, 4369, 6000-7999, 8087, 8099, 26379

**Qumu VCC Access**, for installation of authentication and supporting files

- ☐ Access to the Qumu VCC Admin Portal with permissions to create OAuth clients
  - ☐ `qumu-vcc.example.com/adminportal/oauthClientList.do`
- ☐ Access to the Qumu VCC application server and permissions to create and install skin packs

**Optional Static IP Setup**, for networks that use static addressing (not required if DHCP-enabled)

- ☐ Access to SSH session via Putty (Windows) or terminal (MacOS or Linux)
- ☐ Basic familiarity with Linux system administration to edit networking setup files