



Installing MapR Software



Learning Objectives

- Describe MapR deployment options
- Discuss overview of MapR installation
- Identify cloud idiosyncrasies
- Identify sandbox idiosyncrasies



MapR Deployment Options

- Bare metal
- Cloud virtual machines
- Elastic MapReduce (AWS)
- Virtual machine sandbox



Discuss overview of MapR installation

- <http://doc.mapr.com/display/MapR/About+Installation>
- **Preparation steps**
 - System (OS, users, node types, RAM, CPU, ...)
 - Storage (boot vs non-boot disks, RAID)
 - Network (L2, L3)
- **Installing the software**
 - Quick installer
 - GUI installer
 - Package manager (yum/apt-get)
- **Post-installation steps**
 - Starting the cluster
 - Installing ecosystem packages



Identify cloud idiosyncrasies

- **Virtualization layer**
- **Storage**
 - EBS
 - Ephemeral magnetic
 - Ephemeral SSD
- **IP addressing**
 - Internal
 - external
- **Security**
 - VPC
 - Security group
 - Host-level firewall
- **Cost**



Identify virtual machine idiosyncrasies

- **Resources**

- Single machine / HA
- RAM
- CPU

- **Disk**

- Dynamic
- fixed

- **Network**

- NAT
- Host-only
- bridged

