**Azure VM and Load Balancer**

Before you begin the tasks, review the following articles:

* [Azure Load Balancer](https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview)
* [Availability of Windows virtual machines in Azure](https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability)
* [Availability set](https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-availability-sets)
* [Solr Overview](https://www.tutorialspoint.com/apache_solr/apache_solr_overview.htm)
* [Solr Index Replication](https://lucene.apache.org/solr/guide/6_6/index-replication.html)
* [Solr Slave Master configuration](https://docs.alfresco.com/5.2/concepts/solr-replication-conf.html#slave)

You must accomplish this task via ARM template and PowerShell scripts:

1. Deploy two Azure VMs (master and slave node) with the following requirements:

• Add both VM to Availability Set

• Use managed disk as an OS disk

• Add 200 GB SSD disk as a Data disk

• VMs must be in different subnets

• Add NSG and allow only tcp port 8983

• Install Solr 6 major version in both nodes on Data disk

• The master VM should play role Solr Master node

• The slave VM should play role Solr Slave node

1. Add Public load Balancer:

• Use Standard sku

• Add health probe

• Add to backend pool Solr master and slave nodes

• Add load balancer rule

Simulate the node fail and check the Load Balancer configuration.