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Accelerated networking azure arm template

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Additional information The ARM template is able to deploy elasticsearch cluster topology with up to 50 data nodes and up to 20 coordination nodes along with three dedicated main nodes. The following sections highlight parameters that can control node deployment options. The template is able to deploy a cluster of up to 73 nodes in size (3 main, 50 data, and 20 coordination nodes), but the largest cluster that you will be able to deploy will follow the base quota limit defined for VMS targeted and locations within the subscription. You can check what the limit and current usage is for the subscription > + quota in azure portal or Azure CLI 2.0. az vm list-use --location </location> Azure PowerShell. Get-AzureRmVMUsage -Location </location> Usually the default limit is 10 per family VKU SKU per location. Contact Azure Support to increase the VKU limit at a specific location. Currently, the ARM template deploys only ubuntu 16.04-LTS VMs, using images published in the Azure VM canonical gallery, and the Debian package distribution elasticsearch. The template uses systemd to run the Elasticsearch process, with Elasticsearch configured to start automatically at startup. Elasticsearch can be stopped with the system on the elastic node VM using sudo systemctl stop elasticsearch.service and started sudo systemctl start elasticsearch.service All VM deployed templates are secured with username and either password or SSH key adminUsername Admin username used in providing vm. It must be a valid Linux username, i.e. avoid any usernames that are invalid for authentication ubuntu type authentication mechanism to access VMs. It can be a password or sshPublicKey. adminPassword When authenticationType is a password, password to use for admin username to access VMs. sshPublicKey When authenticationType is sshPublicKey, public SSH key used for admin username to access VM. These are the general settings that control cluster configuration</location> </location> </location> Deploy the Elasticsearch version (and therefore Kibana). Each version of the template is able to deploy many different versions, and the template version number indicates what the default stack version will be. For example, template version 7.9.0 deploys Elasticsearch 7.9.0 by default. To see which versions can deploy, see the esVersion.allowedValues field in the mainTemplate.json file for a specific version of the template. esClusterName The name of the Elasticsearch cluster. It is recommended that you select an appropriate name that describes the purpose of the cluster. This value is required to esHeapSize the amount of memory in megabytes to allocate each elastic node for the JVM heap. The default allocation of 50% of the available memory will be allocated to elasticsearch heap, up to a maximum of 31,744 MB (approximately 32 GB). This is a function at professional level; Heap size setting too low or greater than the available memory on the selected elasticsearch VM SKU fails deployment. esAdditionalYaml Additional configuration for elasticsearch yaml configuration file. Each row must be separated by a new row character. For action.auto_create_index: +.*indices.queries.cache.size: 5% It is recommended that you run additional yaml over the linter before you begin deployment, as an incorrectly formatted yaml fails deployment. By default, the template deploys three data nodes. Data nodes hold and perform data-related operations, such as search and aggregation. Data node VMs are attached to the backend load balancing pool within the template if coordinating nodes are also deployed, in which case coordination nodes will be attached instead. dataNodesAreMasterEligible Either Yes or No to make the data nodes the main one. This can be useful for small elasticsearch clusters. However, for larger clusters, it is recommended that you have dedicated master nodes. The default value is No, and after uploading yes, no reserved main nodes will be available. vmSizeDataNodes Use Azure VM SKU for data nodes. Different VM SKU have different CPU, RAM, temporary storage and network bandwidth. Additionally, different VMSS have different limits on the number of managed disks that can be mounted. The default value is Standard_DS1_v2. vmDataNodeCount The number of data nodes. It must be greater than 0. By default, on the 3rd vmDataNodeAcceleratedNetworking whether to enable accelerated networking for data nodes, allowing one-way I/O virtualization (SR-IOV) on the VM, significantly improves its network performance. Valid values are Default, Yes, No. The default value is the default that enables accelerated networking for VMs that are known to support it. When the dataNodesAreMasterEligible parameter is no, three dedicated main nodes will be deployed. Dedicated master nodes are recommended for larger clusters. vmSizeMasterNodes Use Azure VM SKU for dedicated master nodes. Different VM SUs have different CPUs, RAM, temporary storage and Bandwidth. The default value is Standard_DS1_v2. vmMasterNodeAcceleratedNetworking Whether to enable accelerated networking for specialized main nodes that enable single-root I/O virtualization (SR-IOV) on the VM, greatly improves its network performance. Valid values are Default, Yes, No. The default value is the default that enables accelerated networking for VMs that are known to support it. Coordination nodes can optionally be deployed with a template; coordination nodes do not hold data and are not master-qualified, but act as coordinators of incoming requests from clients, send these requests to data nodes and collect results in order to reduce the results of each data node into one global result group. Coordination nodes are a way to scale a cluster deployed with this template above 100 nodes of data, the maximum number of VMs that can be added to the load balancing backend pool; Although the template puts a limit of 50 data nodes within the template, it can increase the forking of the template and increase this limit to 100. If specified, the VM coordination node is connected to the load balancing pool backend within the template, instead of the VM data node vmSizeClientNodes, azure VMs are used to coordinate nodes. Different VM SKU have different CPU, RAM, temporary storage and network bandwidth. The default value is Standard_DS1_v2. vmClientNodeCount Number of coordination nodes. The default value is 0.

vmClientNodeAcceleratedNetworking Whether to enable accelerated networking for coordination of nodes, allowing single root I/O virtualization (SR-IOV) on the VM, significantly improves its network performance. Valid values are Default, Yes, No. The default value is the default that enables accelerated networking for VMs that are known to support it. All deployed nodes are configured as Ingest nodes, as well as machine learning nodes, if a license has been used that enables machine learning features. See the documentation for the node to understand how to change node roles. Increase the number of nodes The template is deployed in incremental mode by default. If a previous solution was deployed to the resource audience, resources that exist in the resource group but are not in the template remain unchanged. Any resources that are specified by the solution will be deployed, and no change is made for those resources that already exist and whose settings are unchanged. However, for resources whose settings have changed, the resource is provided with these new settings. If the elasticsearch deployment script is running on a VM that already has the elasticsearch process running, the elasticsearch.yml configuration file is changed by using parameters from the new deployment. If the node uses a temporary disk for storage, the script ensures that the data directory and permissions are set correctly. If an elasticsearch configuration file change is detected, the elastic review process restarts. What incremental The mode and deployment script behavior means in practice is that it is possible to increase the size of the cluster deployed with the template. There are certain reservations to be aware of deploying to an existing resource group where the template has already been deployed, it must use exactly the same parameters, except for vmDataNodeCount or vmClientNodeCount, which should be higher (or the same) than the previous deployment to the resource group, increase the number of data or coordinate nodes, respectively. Incremental template deployment must only be used to shrink the cluster and not to shrink it; Azure Infrastructure has no knowing which VMs can be safely removed without losing data because it knows nothing about the shards and replicas that each node contains. Scaling should only be used if the cluster contains dedicated nodes of the main node

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