{

"$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",

"contentVersion": "1.0.0.0",

"parameters": {

"Public Domain Label": {

"type": "string"

},

"VM Admin User Name": {

"defaultValue": "myadmin",

"type": "string"

},

"VM Admin Password": {

"defaultValue": null,

"type": "securestring"

},

"Storage Account Name": {

"defaultValue": "<your prefix>vmstandard",

"type": "string"

},

"VM Size": {

"defaultValue": "Standard\_A3",

"type": "string",

"allowedValues": [

"Standard\_A3",

"Standard\_A4",

"Standard\_A6",

"Standard\_A7"

],

"metadata": {

"description": "SKU of the VM (only those skus can take 2+ NICS)."

}

},

"Instance Count": {

"defaultValue": 2,

"type": "int"

}

},

"variables": {

"VNet Name": "DemoVM-vnet",

"webSubnetIpRange": "10.0.0.0/24",

"maintenanceIpRange": "10.0.1.0/24",

"gatewayIpRange": "10.0.255.0/24",

"Public LB Name": "PublicLB",

"Public IP Name": "MyPublicIP",

"Web Address Pool Name": "webPool",

"Web NIC loop Name": "webNicLoop",

"Web NIC Prefix": "webNic",

"Maintenance NIC loop Name": "maintenanceNicLoop",

"Maintenance NIC Prefix": "maintenanceNic",

"Web Availability Set Name": "webAvailSet",

"Vhds Container Name": "vhds",

"Web VM loop Name": "webVMLoop",

"Web VM Prefix": "webVM"

},

"resources": [

{

"type": "Microsoft.Network/publicIPAddresses",

"name": "[variables('Public IP Name')]",

"apiVersion": "2015-06-15",

"location": "[resourceGroup().location]",

"tags": {

"displayName": "Public IP"

},

"properties": {

"publicIPAllocationMethod": "Dynamic",

"idleTimeoutInMinutes": 4,

"dnsSettings": {

"domainNameLabel": "[parameters('Public Domain Label')]"

}

}

},

{

"type": "Microsoft.Network/virtualNetworks",

"name": "[variables('VNet Name')]",

"apiVersion": "2016-03-30",

"tags": {

"displayName": "VNet"

},

"location": "[resourceGroup().location]",

"properties": {

"addressSpace": {

"addressPrefixes": [

"10.0.0.0/16"

]

},

"subnets": [

{

"name": "web",

"properties": {

"addressPrefix": "[variables('webSubnetIpRange')]",

"networkSecurityGroup": {

"id": "[resourceId('Microsoft.Network/networkSecurityGroups', 'webNsg')]"

}

}

},

{

"name": "maintenance",

"properties": {

"addressPrefix": "[variables('maintenanceIpRange')]",

"networkSecurityGroup": {

"id": "[resourceId('Microsoft.Network/networkSecurityGroups', 'maintenanceNsg')]"

}

}

},

{

"name": "GatewaySubnet",

"properties": {

"addressPrefix": "[variables('gatewayIpRange')]"

}

}

]

},

"resources": [],

"dependsOn": [

"[resourceId('Microsoft.Network/networkSecurityGroups', 'webNsg')]",

"[resourceId('Microsoft.Network/networkSecurityGroups', 'maintenanceNsg')]"

]

},

{

"type": "Microsoft.Network/loadBalancers",

"name": "[variables('Public LB Name')]",

"apiVersion": "2015-06-15",

"location": "[resourceGroup().location]",

"tags": {

"displayName": "Public Load Balancer"

},

"properties": {

"frontendIPConfigurations": [

{

"name": "LoadBalancerFrontEnd",

"comments": "Front end of LB: the IP address",

"properties": {

"publicIPAddress": {

"id": "[resourceId('Microsoft.Network/publicIPAddresses/', variables('Public IP Name'))]"

}

}

}

],

"backendAddressPools": [

{

"name": "[variables('Web Address Pool Name')]"

}

],

"loadBalancingRules": [

{

"name": "Http",

"properties": {

"frontendIPConfiguration": {

"id": "[concat(resourceId('Microsoft.Network/loadBalancers', variables('Public LB Name')), '/frontendIPConfigurations/LoadBalancerFrontEnd')]"

},

"frontendPort": 80,

"backendPort": 80,

"enableFloatingIP": false,

"idleTimeoutInMinutes": 4,

"protocol": "Tcp",

"loadDistribution": "Default",

"backendAddressPool": {

"id": "[concat(resourceId('Microsoft.Network/loadBalancers', variables('Public LB Name')), '/backendAddressPools/', variables('Web Address Pool Name'))]"

},

"probe": {

"id": "[concat(resourceId('Microsoft.Network/loadBalancers', variables('Public LB Name')), '/probes/TCP-Probe')]"

}

}

}

],

"probes": [

{

"name": "TCP-Probe",

"properties": {

"protocol": "Tcp",

"port": 80,

"intervalInSeconds": 5,

"numberOfProbes": 2

}

}

],

"inboundNatRules": [],

"outboundNatRules": [],

"inboundNatPools": []

},

"dependsOn": [

"[resourceId('Microsoft.Network/publicIPAddresses', variables('Public IP Name'))]"

]

},

{

"apiVersion": "2015-06-15",

"name": "webNsg",

"type": "Microsoft.Network/networkSecurityGroups",

"location": "[resourceGroup().location]",

"tags": {},

"properties": {

"securityRules": [

{

"name": "Allow-HTTP-From-Internet",

"properties": {

"protocol": "Tcp",

"sourcePortRange": "\*",

"destinationPortRange": "80",

"sourceAddressPrefix": "Internet",

"destinationAddressPrefix": "\*",

"access": "Allow",

"priority": 100,

"direction": "Inbound"

}

},

{

"name": "Allow-Health-Monitoring",

"properties": {

"protocol": "\*",

"sourcePortRange": "\*",

"destinationPortRange": "\*",

"sourceAddressPrefix": "AzureLoadBalancer",

"destinationAddressPrefix": "\*",

"access": "Allow",

"priority": 200,

"direction": "Inbound"

}

},

{

"name": "Disallow-everything-else-Inbound",

"properties": {

"protocol": "\*",

"sourcePortRange": "\*",

"destinationPortRange": "\*",

"sourceAddressPrefix": "\*",

"destinationAddressPrefix": "\*",

"access": "Deny",

"priority": 300,

"direction": "Inbound"

}

},

{

"name": "Allow-to-VNet",

"properties": {

"protocol": "\*",

"sourcePortRange": "\*",

"destinationPortRange": "\*",

"sourceAddressPrefix": "\*",

"destinationAddressPrefix": "VirtualNetwork",

"access": "Allow",

"priority": 100,

"direction": "Outbound"

}

},

{

"name": "Disallow-everything-else-Outbound",

"properties": {

"protocol": "\*",

"sourcePortRange": "\*",

"destinationPortRange": "\*",

"sourceAddressPrefix": "\*",

"destinationAddressPrefix": "\*",

"access": "Deny",

"priority": 200,

"direction": "Outbound"

}

}

],

"subnets": []

}

},

{

"apiVersion": "2015-06-15",

"name": "maintenanceNsg",

"type": "Microsoft.Network/networkSecurityGroups",

"location": "[resourceGroup().location]",

"tags": {},

"properties": {

"securityRules": [

{

"name": "Allow-RDP-From-VNet",

"properties": {

"protocol": "Tcp",

"sourcePortRange": "\*",

"destinationPortRange": "3389",

"sourceAddressPrefix": "VirtualNetwork",

"destinationAddressPrefix": "\*",

"access": "Allow",

"priority": 150,

"direction": "Inbound"

}

},

{

"name": "Disallow-everything-else-Inbound",

"properties": {

"protocol": "\*",

"sourcePortRange": "\*",

"destinationPortRange": "\*",

"sourceAddressPrefix": "\*",

"destinationAddressPrefix": "\*",

"access": "Deny",

"priority": 300,

"direction": "Inbound"

}

},

{

"name": "Disallow-everything-else-Outbound",

"properties": {

"protocol": "\*",

"sourcePortRange": "\*",

"destinationPortRange": "\*",

"sourceAddressPrefix": "\*",

"destinationAddressPrefix": "\*",

"access": "Deny",

"priority": 200,

"direction": "Outbound"

}

}

],

"subnets": []

}

},

{

"type": "Microsoft.Network/networkInterfaces",

"copy": {

"name": "[variables('Web NIC loop Name')]",

"count": "[parameters('Instance Count')]"

},

"name": "[concat(variables('Web NIC Prefix'), '-', copyIndex())]",

"tags": {

"displayName": "Web NICs"

},

"apiVersion": "2016-03-30",

"location": "[resourceGroup().location]",

"properties": {

"ipConfigurations": [

{

"name": "ipconfig",

"properties": {

"privateIPAllocationMethod": "Dynamic",

"subnet": {

"id": "[concat(resourceId('Microsoft.Network/virtualNetworks', variables('VNet Name')), '/subnets/web')]"

},

"loadBalancerBackendAddressPools": [

{

"id": "[concat(resourceId('Microsoft.Network/loadBalancers', variables('Public LB Name')), '/backendAddressPools/', variables('Web Address Pool Name'))]"

}

]

}

}

],

"dnsSettings": {

"dnsServers": []

},

"enableIPForwarding": false

},

"resources": [],

"dependsOn": [

"[resourceId('Microsoft.Network/virtualNetworks', variables('VNet Name'))]",

"[resourceId('Microsoft.Network/loadBalancers', variables('Public LB Name'))]"

]

},

{

"type": "Microsoft.Network/networkInterfaces",

"copy": {

"name": "[variables('Maintenance NIC loop Name')]",

"count": "[parameters('Instance Count')]"

},

"name": "[concat(variables('Maintenance NIC Prefix'), '-', copyIndex())]",

"tags": {

"displayName": "Maintenance NICs"

},

"apiVersion": "2016-03-30",

"location": "[resourceGroup().location]",

"properties": {

"ipConfigurations": [

{

"name": "ipconfig",

"properties": {

"privateIPAllocationMethod": "Dynamic",

"subnet": {

"id": "[concat(resourceId('Microsoft.Network/virtualNetworks', variables('VNet Name')), '/subnets/maintenance')]"

}

}

}

],

"dnsSettings": {

"dnsServers": []

},

"enableIPForwarding": false

},

"resources": [],

"dependsOn": [

"[resourceId('Microsoft.Network/virtualNetworks', variables('VNet Name'))]"

]

},

{

"type": "Microsoft.Storage/storageAccounts",

"sku": {

"name": "Standard\_LRS",

"tier": "Standard"

},

"kind": "Storage",

"name": "[parameters('Storage Account Name')]",

"apiVersion": "2016-01-01",

"location": "[resourceGroup().location]",

"tags": {},

"properties": {},

"resources": [],

"dependsOn": []

},

{

"name": "[variables('Web Availability Set Name')]",

"type": "Microsoft.Compute/availabilitySets",

"location": "[resourceGroup().location]",

"apiVersion": "2015-06-15",

"tags": {

"displayName": "WebAvailabilitySet"

},

"properties": {

"platformUpdateDomainCount": 5,

"platformFaultDomainCount": 3

},

"dependsOn": []

},

{

"type": "Microsoft.Compute/virtualMachines",

"copy": {

"name": "[variables('Web VM loop Name')]",

"count": "[parameters('Instance Count')]"

},

"name": "[concat(variables('Web VM Prefix'), '-', copyIndex())]",

"tags": {

"displayName": "Front VMs"

},

"apiVersion": "2015-06-15",

"location": "[resourceGroup().location]",

"properties": {

"availabilitySet": {

"id": "[resourceId('Microsoft.Compute/availabilitySets', variables('Web Availability Set Name'))]"

},

"hardwareProfile": {

"vmSize": "[parameters('VM Size')]"

},

"storageProfile": {

"imageReference": {

"publisher": "MicrosoftWindowsServer",

"offer": "WindowsServer",

"sku": "2012-R2-Datacenter",

"version": "latest"

},

"osDisk": {

"name": "[concat(variables('Web VM Prefix'), '-', copyIndex())]",

"createOption": "FromImage",

"vhd": {

"uri": "[concat('https', '://', parameters('Storage Account Name'), '.blob.core.windows.net', concat('/', variables('Vhds Container Name'),'/', variables('Web VM Prefix'), '-', copyIndex(),'-os-disk.vhd'))]"

},

"caching": "ReadWrite"

},

"dataDisks": []

},

"osProfile": {

"computerName": "[concat(variables('Web VM Prefix'), '-', copyIndex())]",

"adminUsername": "[parameters('VM Admin User Name')]",

"windowsConfiguration": {

"provisionVMAgent": true,

"enableAutomaticUpdates": true

},

"secrets": [],

"adminPassword": "[parameters('VM Admin Password')]"

},

"networkProfile": {

"networkInterfaces": [

{

"id": "[resourceId('Microsoft.Network/networkInterfaces', concat(variables('Web NIC Prefix'), '-', copyIndex()))]",

"properties": {

"primary": true

}

},

{

"id": "[resourceId('Microsoft.Network/networkInterfaces', concat(variables('Maintenance NIC Prefix'), '-', copyIndex()))]",

"properties": {

"primary": false

}

}

]

}

},

"resources": [],

"dependsOn": [

"[resourceId('Microsoft.Storage/storageAccounts', parameters('Storage Account Name'))]",

"[variables('Web NIC loop Name')]",

"[variables('Maintenance NIC loop Name')]",

"[resourceId('Microsoft.Compute/availabilitySets', variables('Web Availability Set Name'))]"

]

}

]

}