

[WRO] 2 spotkanie Microsoft Azure User Group Poland we Wrocławiu

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Microsoft Azure
User Group Poland



Microsoft



justcloud



Partnerzy

Info

- Jesteśmy dostępni na:
- Meetup:
<http://www.meetup.com/Microsoft-Azure-Users-Group-Poland/events>
- Facebook:
<https://www.facebook.com/groups/azureugpl>
- **Szukamy osób chętnych do prezentacji i dzielenia się wiedzą**

Today

- Session 1: **Omówienie subskrypcji Azure** (Piotr Rogala)
- Session 2: **ARM – jak ułatwia życie** (Piotr Rogala)
- Session 3: **Docker** (Marek Zalewski)
- Open Spaces with beer

About Me

- Current working in IBM
- Blog: <http://justcloud.pl>
- FB Page: <http://facebook.com/justcloudpl>
- Group leader:
Microsoft Azure User Group Poland
<http://azureug.org>
- Getting involve Azure solutions



Files, links, presentation

<http://maugp.justcloud.pl>

The background of the slide is white and features several stylized, light blue clouds of various sizes scattered across the frame. The clouds have soft, rounded edges and a slightly darker blue gradient on their upper parts, giving them a three-dimensional appearance.

Subskrypcje w AZURE

Azure Resource Manager

You can deploy, update or delete all of the resources for your solution in a single, coordinated operation. You use a template for deployment and that template can work for different environments such as testing, staging and production. Resource Manager provides security, auditing, and tagging features to help you manage your resources after deployment.

<https://azure.microsoft.com/en-us/documentation/articles/resource-group-overview/>

Example: Active Directory HA in Azure

<https://github.com/Azure/azure-quickstart-templates/tree/master/active-directory-new-domain-ha-2-dc>

- Two servers AD, availability set, load balancer, public IP, vnet, storage
- Run time template: about 20 min
- **Installation AD through DSC**
- Other examples:
 - Chef template – ubuntu VM
 - HDInsight with DataLake
 - SharePoint Farm (9 VM)

Extensions
adBDC

+

Search to filter items...

NAME	TYPE	V...	STATUS	
CreateBDC	Microsoft.Powershell.DSC	2.*	Provisioning succeeded	...

CreateBDC
adBDC

TYPE

Microsoft.Powershell.DSC

VERSION

2.19.0.0

STATUS

Provisioning succeeded

STATUS LEVEL

Info

STATUS MESSAGE

DSC configuration was applied successfully.

DETAILED STATUS

[View detailed status](#)

HANDLER STATUS

Ready

```
"resources": [  
  {  
    "type": "Microsoft.Compute/virtualMachines/extensions",  
    "name": "[concat(parameters('adPDCVMName'), '/CreateADForest')]",  
    "apiVersion": "2015-05-01-preview",  
    "location": "[resourceGroup().location]",  
    "dependsOn": [  
      "[resourceId('Microsoft.Compute/virtualMachines', parameters('adPDCVMName'))]"  
    ],  
    "properties": {  
      "publisher": "Microsoft.Powershell",  
      "type": "DSC",  
      "typeHandlerVersion": "2.11",  
      "autoUpgradeMinorVersion": true,  
      "settings": {  
        "ModulesUrl": "[variables('adPDCModulesURL')]",  
        "ConfigurationFunction": "[variables('adPDCConfigurationFunction')]",  
        "Properties": {  
          "DomainName": "[parameters('domainName')]",  
          "AdminCreds": {  
            "UserName": "[parameters('adminUserName')]",  
            "Password": "PrivateSettingsRef:AdminPassword"  
          }  
        }  
      }  
    }  
  ]  
]
```

.json

```
1 [  
2   {  
3     "code":  
4     "ComponentStatus/DscConfigurationLog/succeeded",  
5     "displayStatus": "Provisioning succeeded",  
6     "level": "Info",  
7     "message": "[2016-07-04T19:06:16] [VERBOSE] [ADBD  
8       [[xPendingReboot]Reboot1] No  
9       pending reboots found.\r\n[2016-07-04T19:06:16] [VERBOSE]  
10      [ADBD]: LCM: [ End Test ] [[xPendingReboot]Rebo  
11      in 0.1410 seconds.\r\n[2016-07-04T19:06:16] [VERBOSE]  
12      [ADBD]: LCM: [ Skip Set ] [[xPendingReboot]Rebo  
13      \r\n[2016-07-04T19:06:16] [VERBOSE] [ADBD]: LCM: [ End  
14      Resource ] [[xPendingReboot]Reboot1]\r\n[2016-07-04T19:06:16] [VERBOSE] [ADBD]: LCM: [ End S  
15      ]\r\n[2016-07-04T19:06:16] [VERBOSE] [ADBD]: LCM: [ End  
16      Set ] in 11.8840 seconds.\r\n[2016-07-04T19:06:16] [VERBOSE] Operation 'Invoke CimMeth  
17      complete.\r\n[2016-07-04T19:06:16] [VERBOSE] Time taken f  
18      configuration job to complete is 12.14 seconds\r\n[2016-07-04T19:06:22] [VERBOSE] Performing the operation  
19      \"Start-DscConfiguration: SendMetaConfigurationApply\" on  
20      target \"MSFT_DSCLocalConfigurationManager\".\r\n[2016-07-04T19:06:22] [VERBOSE] Perform operation 'Invoke  
21      CimMethod' with following parameters, 'methodName' =  
22      SendMetaConfigurationApply, 'className' =  
23      MSFT_DSCLocalConfigurationManager, 'namespaceName' =  
24      root/Microsoft/Windows/DesiredStateConfiguration'.\r\n[2016-07-04T19:06:22] [VERBOSE] An LCM method call arrive  
25      from computer ADBDC with user sid S-1-5-18.\r\n[2016-07-04T19:06:22] [VERBOSE] [ADBD]: LCM: [ Start S  
26      ]\r\n[2016-07-04T19:06:22] [VERBOSE] [ADBD]: LCM: [ Start Resource ] [MSFT_DSCLocalConfigurationManager]\r\n[2016-07-04T19:06:22] [VERBOSE] [ADBD]: LCM: [ Start S  
27      ] [MSFT_DSCLocalConfigurationManager]\r\n[2016-07-04T19:06:22] [VERBOSE] [ADBD]: LCM: [ End Set ]
```



Resource costs

rogitest

Resource costs

NAME!	TYPE	ESTIMATED SPEND
adPDC	Microsoft.Compute/virtualMachines	\$0.44
adBDC	Microsoft.Compute/virtualMachines	\$0.21
rogitest	Microsoft.Storage/storageAccounts	\$0.03
adAvailabilitySet	Microsoft.Compute/availabilitySets	\$0.00
CreateBDC	Microsoft.Compute/virtualMachines	\$0.00
CreateADForest	Microsoft.Compute/virtualMachines	\$0.00
adLoadBalancer	Microsoft.Network/loadBalancers	\$0.00
adBDCNic	Microsoft.Network/networkInterfaces	\$0.00
adPDCNic	Microsoft.Network/networkInterfaces	\$0.00
adpublicIP	Microsoft.Network/publicIPAddresses	\$0.00
adVNET	Microsoft.Network/virtualNetworks	\$0.00


Template add-ons


- In your Template you can use scripts:
- DSC
 - Ready-made scripts: <https://gallery.technet.microsoft.com/scriptcenter/DSC-Resource-Kit-All-c449312d>
- PowerShell
 - Create own solutions e.g copy file, create users, install app, etc.
- .json
 - In json you can use your image


Template


- Create environment or system in Azure
- Configure - system
- Run Sysprep
- Run command in PowerShell ARM – to create template in Azure
- Save VM - „Template”





 New


 Resource groups


 All resources


 Virtual machines



 Subscriptions


 Public IP addresses

 Storage accounts

 Audit Logs

 Resource Explorer

 Active Directory 

 Recovery Services vaults

Browse >

Templates

~~27-04-2018~~



Directory: Orbitera

Filter items...

NAME

DESCRIPTION

No templates to display

Summary

- More time to drink cafe
- Well prepared script can be use multiple times
- Saving time and money
- Improve skills in scripting PowerShell or DSC

Questions?

Dziękuję za uwagę!

Piotr Rogala



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VEEAM

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