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

Piotr Rogala











## 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: <a href="http://justcloud.pl">http://justcloud.pl</a>
- FB Page: <a href="http://facebook.com/justcloudpl">http://facebook.com/justcloudpl</a>
- Group leader:

Microsoft Azure User Group Poland

http://azureug.org

Getting involve Azure solutions



Files, links, presentation

http://maugp.justcloud.pl

# Subskrypcje w AZURE

## Azure Resource Manager

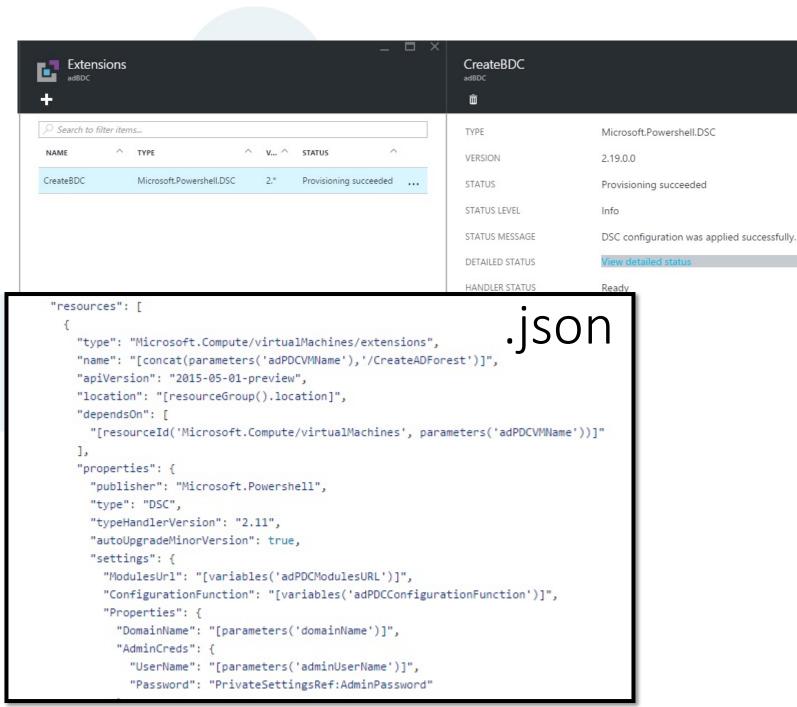
You can deploy, update or delete all of the resources for your solution in a single, coordinated operation. You use a template for deployment and that template can work for different environments such as testing, staging and production. Resource Manager provides security, auditing, and tagging features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

<a href="https://github.com/Azure/azure-quickstart-tomplates/tree/master/active-directory-new-domain-ha-2-dc">https://github.com/Azure/azure-quickstart-tomplates/tree/master/active-directory-new-domain-ha-2-dc</a>

- 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)



```
1 [
2
          "code":
   "ComponentStatus/DscConfigurationLog/succeeded",
          "displayStatus": "Provisioning succeeded",
          "level": "Info",
          "message": "[2016-07-04T19:06:16] [VERBOSE] [ADBD
                           [[xPendingReboot]Reboot1] No
  pending reboots found.\r\n[2016-07-04T19:06:16] [VERBOSE]
  in 0.1410 seconds.\r\n[2016-07-04T19:06:16] [VERBOSE]
  [ADBDC]: LCM: [ Skip Set
                              [[xPendingReboot]Rebo
  \r\n[2016-07-04T19:06:16] [VERBOSE] [ADBDC]: LCM: [ End
  Resource | [[xPendingReboot]Reboot1]\r\n
  [2016-07-04T19:06:16] [VERBOSE] [ADBDC]: LCM: [ End S
      \r\n[2016-07-04T19:06:16] [VERBOSE] [ADBDC]: LCM: [
               in 11.8840 seconds.\r\n
  [2016-07-04T19:06:16] [VERBOSE] Operation 'Invoke CimMeth
  complete.\r\n[2016-07-04T19:06:16] [VERBOSE] Time taken f
  configuration job to complete is 12.14 seconds\r\n
  [2016-07-04T19:06:22] [VERBOSE] Performing the operation
  \"Start-DscConfiguration: SendMetaConfigurationApply\" on
  target \"MSFT_DSCLocalConfigurationManager\".\r\n
  [2016-07-04T19:06:22] [VERBOSE] Perform operation 'Invoke
  CimMethod' with following parameters, ''methodName' =
  SendMetaConfigurationApply, 'className' =
  MSFT_DSCLocalConfigurationManager, 'namespaceName' =
  root/Microsoft/Windows/DesiredStateConfiguration'.\r\n
  [2016-07-04T19:06:22] [VERBOSE] An LCM method call arrive
  from computer ADBDC with user sid S-1-5-18.\r\n
  [2016-07-04T19:06:22] [VERBOSE] [ADBDC]: LCM: [ Start S
      \r\n[2016-07-04T19:06:22] [VERBOSE] [ADBDC]: LCM: [
  Start Resource ] [MSFT_DSCMetaConfiguration]\r\n
  [2016-07-04T19:06:22] [VERBOSE] [ADBDC]: LCM: [ Start S
      [MSFT DSCMetaConfiguration]\r\n[2016-07-04T19:06:2
  [VERROSE] [ADRDC]: ICM: [ End Set
```

CreateBDC

adBDC



#### Resource costs

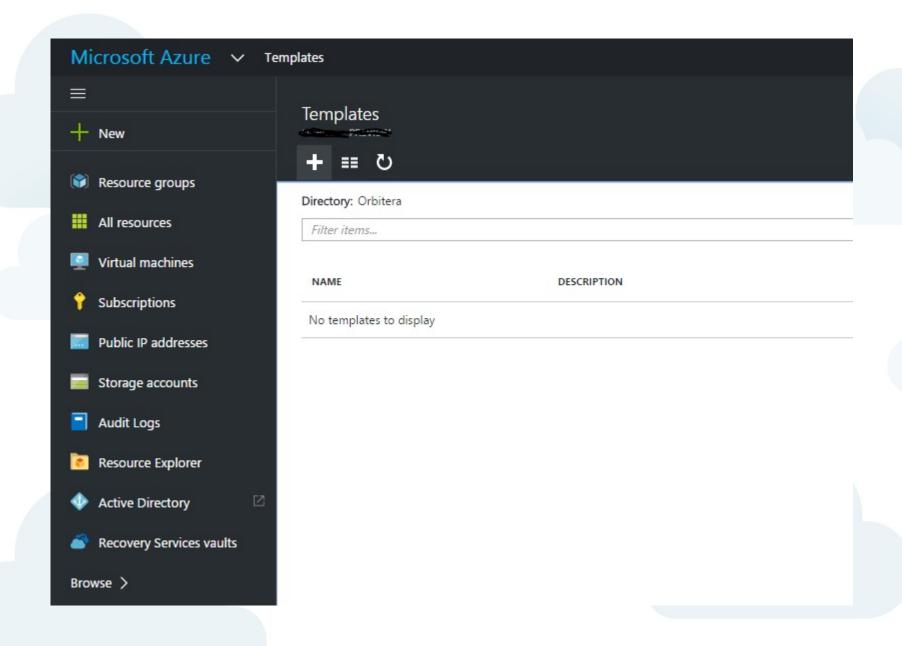
NAME!	^	ТУРЕ	ESTIMATED SPEND
adPDC		Microsoft.Compute/virtualMachines	\$0.44
adBDC		Microsoft.Compute/virtualMachines	\$0.21
rogitest		Microsoft.Storage/storageAccounts	\$0.03
adAvailabiltySet		Microsoft.Compute/availabilitySets	\$0.00
CreateBDC		Microsoft.Compute/virtualMachines	\$0.00
CreateADForest		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: <a href="https://gallery.technet.microsoft.com/scriptcenter/DSC-Resource-Kit-All-c449312d">https://gallery.technet.microsoft.com/scriptcenter/DSC-Resource-Kit-All-c449312d</a>
- PowerShell
  - Create own solutions e.g copy file, create users, install app, etc.
- .json
  - In json you can use your image

## Template

- Create enviorment or system in Azure
- Configure system
- Run Sysprep
- Run command in PowerShell ARM to create template in Azure
- Save VM "Template"



## 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









