























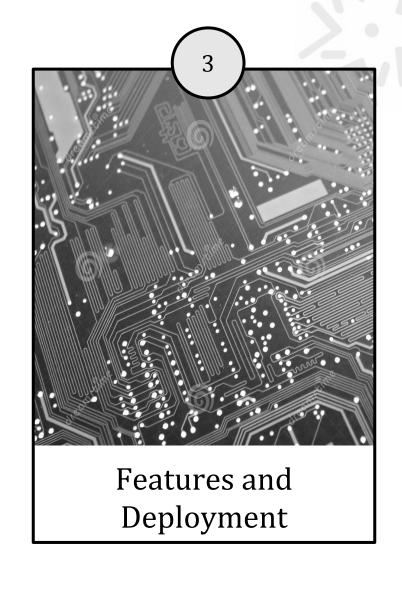
PowerShell Conference

Singapore 2016











Looking back 20 years in the making

Server for the masses era

1996 - 2000

Microsoft® WindowsNT.



Looking back 20 years in the making



Enterprise era







PowerShell Conference

Singapore 2016

Looking back 20 years in the making













PowerShell Conference

Singapore 2016

Looking back 20 years in the making

Cloud for the masses era

2016 - Today





What it is:

- Tiny Footprint
- Lightning Fast
- Super Secure
- <2 Second boot time
- The Future of Windows
 Server
- Built for the Cloud

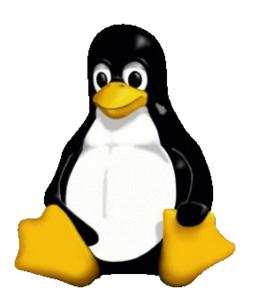
What it is NOT:

- Traditional workloads
- PXE bootable
- Detailed GUI
- Full .NET FrameworkSupport
- MSI Supportability















```
"nicName": "myVMNic",
  "addressPrefix": "10.0.0.0/16",
  "subnetName": "Subnet",
  "subnetPrefix": "10.0.0.0/24",
  "publicIPAddressName": "myPublicIP",
  "vmName": "SimpleWindowsVM",
  "virtualNetworkName": "MyVNET",
  "subnetRef": "[resourceId('Microsoft.Network/virtualNetworks/subnets', variables('virtualNetworkName'), variables('subnetName'))]"
},
"resources":
    "type": "Microsoft.Storage/storageAccounts",
    "name": "[variables('storageAccountName')]",
    "apiVersion": "2016-01-01",
    "Location": "[resourceGroup().location]",
    "sku": {
      "name": "Standard LRS"
    "kind": "Storage",
    "properties": {}
 },
    "apiVersion": "2016-03-30",
    "type": "Microsoft.Network/publicIPAddresses",
    "name": "[variables('publicIPAddressName')]",
    "Location": "[resourceGroup().location]",
    "properties": {
      "publicIPAllocationMethod": "Dynamic",
      "dnsSettings": {
        "domainNameLabel": "[parameters('dnsLabelPrefix')]"
```

"storageAccountName": "[concat(uniquestring(resourceGroup().id), 'sawinvm')]",

```
[DscProperty(Mandatory)]
      [System.String[]]$Subscription
      [DscProperty(Mandatory)]
      [System.String]$User
      [DscProperty(Mandatory)]
      [System.String] $Password
      [DscProperty(Mandatory)]
      [Ensure]$Ensure

    [Sensu]Get(){ ···

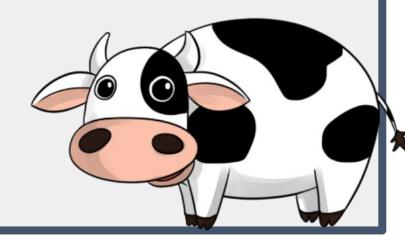
58 ⊞ [void]Set(){...
      [Boolean]Test(){
112 ∃ if ($this.Ensure -eq [Ensure]::Present)
              if ((Get-Service 'sensu-client' -ErrorAction SilentlyContinue).Status -eq 'Running')
               {····
              else
                   Write-Verbose "Sensu client is not installed or configuration changes are required, Calling set"
                   return $false
```

Pets

- Saturn
- Carefully looked after.
- Nursed back to health when ill.



- 183717263
- Nearly or identical to other Cattle.
- Replaced when ill.





וארט	olay Name	Name	Install State
	Active Directory Certificate Services [] Certification Authority [] Certificate Enrollment Policy Web Service [] Certificate Enrollment Web Service [] Certification Authority Web Enrollment [] Network Device Enrollment Service [] Online Responder Active Directory Domain Services Active Directory Federation Services Active Directory Lightweight Directory Services Active Directory Rights Management Services	AD-Certificate ADCS-Cert-Authority ADCS-Enroll-Web-Pol ADCS-Enroll-Web-Svc ADCS-Web-Enrollment ADCS-Device-Enrollment ADCS-Online-Cert AD-Domain-Services ADFS-Federation ADLDS ADRMS	Available Available Available Available Available
[]	<pre>[] Active Directory Rights Management Server [] Identity Federation Support Application Server [] .NET Framework 4.5 [] COM+ Network Access [] Distributed Transactions [] WS-Atomic Transactions [] Incoming Network Transactions [] Outgoing Network Transactions</pre>	ADRMS-Server ADRMS-Identity Application-Server AS-NET-Framework AS-Ent-Services AS-Dist-Transaction AS-WS-Atomic AS-Incoming-Trans AS-Outgoing-Trans	Available Available Available Available Available Available Available Available

	Microsoft	
	Hyper-\	/
TM	J	

25/03/2016	1:52 PM
25/03/2016	1:52 PM
25/03/2016	. 52 PM
25/03/2016	1:52 F.4
25/03/2016	1:52 PM

TM -	- / _	 _	
IIVI	Cabinet File	30	KB
	Cabinet File	349	KB
	Cabinet File	366	KB
	Cabinet File	35	KB
	Cabinet File	23	KB
	Cabinet File	148	KB
	Cabinet File	90	KB
	Cabinet File	165	KB
	Cabinet File	263	KB
	e good	255	KB
CI		142	KB
		29	KB
		399	KB
		24	KB
	Cabinet File	27	KB

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	Microsoft.	-NanoServer	-Compute-Package	en-us cah
-	MICIOSOIL	Manoscivei	Compate rackage	_cii us.cab

Microsoft-NanoServer-Containers-Package_en-us.cab

Microsoft-NanoServer-DCB-Package_en-us.cab

Microsoft-NanoServer-Defender-Package_en-us.cab

Microsoft-NanoServer-DNS-Package_en-us.cab

Microsoft-NanoServer-DSC-Package_en-us.cab

Microsoft-NanoServer-FailoverCluster-Package_en-us.cab

Microsoft-NanoServer-Guest-Package_en-us.cab

Microsoft-NanoServer-Host-Package_en-us.cab

Microsoft-NanoServer-IIS-Package_en-us.cab

Microsoft-NanoServer-NPDS-Package_en-us.cab

Microsoft-NanoServer-OEM-Drivers-Package_en-us.cab

Microsoft-NanoServer-SCVMM-Compute-Package_en-us.cab

Microsoft-NanoServer-SCVMM-Package_en-us.cab



Step 1 Build Nano Server



Step 2 Bake Application in



Step 3
Receive Web Traffic









Mandalorian Crusader



Mandalorian Neo-Crusader



Modern Mandalorian



Republic Commando



Phase I Clone Trooper



Phase II Clone Trooper



Stormtrooper



Modern Stormtrooper

Microsoft Nano Builder

https://blogs.technet.microsoft.com/nanoserver/2016/10/15/introducing-the-nano-server-image-builder/

Nano Builder GUI (Download)

https://www.microsoft.com/en-us/download/details.aspx?id=54065

The History of Windows Server http://www.20yearsofwindowsserver.com/











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Tweets (preferably with Pictures) win Prizes!!!!

Photos of Marina Bay Credit: Sebastian Szumigalski









