Kudu Console Walk-Through Demo

Thursday, January 15, 2015

12:34 PM

Setup

Steps

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| **Screenshots** | **Instructions** | **Speaking Points** |
| Machine generated alternative text: Kudu  Environment  Debug console -v  Process explorer  Tools -v  Site extensions  Cory Fowler  Environment  Build  Site up time  Site folder  Temp folder  42.31229.1323.0 (b75d192f64)  D:Xhome  helloallworldsXTempX  REST API  (works best when using a JSON viewer extension)  App Settings  Deployments  Files  Processes and mini-dumps  Runtime versions  Site Extensions.  installed I feed  Source control info  Web hooks  WebJobs: all I triggered I continuous  More information about Kudu can be found on the  wiki. | Browse to https://<site-name>.scm.azurewebsites.net | Welcome to the Kudu Console, the ~~best~~ worst kept secret of Azure Web App. The Kudu Console provides a wide range of features which will help you be more successful building an application on Azure Web App. |
| Machine generated alternative text: Kudu  Environment  Debug console -v  Process explorer  Tools -v  Site extensions  Cory Fowler  -h "C:XDWASFiles  Index  System Info  App Settings  Connection Strings  • Environment variables  PAT H  HTTP Headers  Server variables  System info  System up time:  OS version: Microsoft Windows NT 6.2.9200.0  64 bit system: True  64 bit process: False  Processor count: 8  Machine name: RDOOI 55D441CIE  Instance id: 9d3c2c6bde2b1 f44891 d85d 1 c3de8cd0300b1 afe83d4bOcf1 d60bad91 d32b377  Short instance id: 9d3c2c  CLR version: 4.0.30319.36213  System directory: D:XWindowsXsystem32  Current working directory: D:XWindowsXsystem32  IIS command line: D:XWindowsXSysWOW64XinetsrvXw3wp.exe -ap "—1 helloallworlds" -v "v4.O" -a "h.XpipeXiisipmc6d2c1 a7-ac38-4ae9-b771-ce3b64239b73"  XSitesX#1 helloallworldsXConfigXapplicationhost.config" -w helloallworldsXConfigXrootweb.config" -m O -t 20 | Click on Environment in the navigation menu. | The kudu console provides a useful interface for helping diagnose bugs, test functionality and extend functionality beyond your website. |
| Machine generated alternative text: Kudu  Environment  Debug console -v  Process explorer  Tools -v  Site extensions  Cory Fowler  REGION NAME West US  REMOTEDEBUGGINGBITVERSION vx86  REMOTEDEBUGGINGPORT  REMOTEDEBUGGINGVERSION 11.0.611103.400  REWRITETABLE  ScmType None  SITE BITNESS x86  SystemDrive D.  SystemRoot D:XWindows  TEMP  TMP  USERDOMAIN WORKGROUP  USERNAME RD00155D441CIE$  USERPROFILE  WEBSITE  WEBSITE  WEBSITE  WEBSITE  WEBSITE  WEBSITE  WEBSITE  WEBSITE  WEBSITE  COMPUTE MODE Shared  HOSTNAME helloallworlds.azurewebsites.ne  HTTPLOGGING ENABLED : O  INSTANCE ID 9d3c2c6bde2b1f44891d85d1c3de8cd0300b1afe83d4bOcf1d60bad91d32b377  NODE DEFAULT VERSION 0.10.29  OWNER NAME 264cf607-03f8-4555-b803-a3f595ec5a5d+westuswebs ace  SITE MODE Limited  SITE NAME helloallworlds  SKU Free  5  WEBSOCKET CONCURRENT REQUEST LIMIT  windir D:XWindows  windows tracing flags  windows tracing logfile | In the table of contents under Index, click on Environment Variables. | In the Environment we can view common system information, application settings, environment and other variables. This can be helpful to identify issues when reading App Settings from non-.NET languages. |
| Machine generated alternative text: Kudu  Environment  | 4 items  Name  data  Debug console -v  Process explorer  Tools -v  Site extensions  Modifed  1/15/2015, PM  1/12/2015, AM  7/18/2014, AM  1/12/2015, AM  Size  use old console  Cory Fowler  e  n  LogFiles  site  SiteExtensions  Kudu Remote Execution console  Type 'exit' then hit 'enter' to get a new CMD process.  Type 'c Is' to clear the console  Mi crosoft Windows Evers ion 6.2.9200)  (c) 2012 Microsoft corporation. All rights  D Xhonl&l  reserved . | Click on the Debug Console link and select CMD. | Kudu provides command-line access in two varieties windows command prompt and PowerShell. The folder listing will update with a table of the contents of a folder which is reflected in the command line window. |
| Machine generated alternative text: Kudu  Environment  Debug console -v  / + 14 items e  Name  data  LogFiles  site  SiteExtensions  Process explorer  Tools -v  Site extensions  Modifed  1/15/2015,  1/12/2015,  7/18/2014,  1/12/2015,  Size  AM  AM  use Old cons  Cory Fowler  grep  init  log  erge  mv  pull  push  rebase  reset  show  status  tag  print lines matching a pattern  create an empty Git repository or reinitialize an existing one  Show commit logs  Join two or more develop ent histories together  Move or rename a file, a di rectory, or a symlink  Fetch from and integrate with another repository or a local  update remote refs along with associated objects  Forward-port local commits to the updated upstream head  Reset current HEAD to the specified state  Remove files fro the working tree and fro the index  Show vari ous types of objects  Show the working tree status  create, list, delete or verify a tag object signed with GPG  branch  'git help -a' and 'git help -g' lists available subcommands and some  concept guides. see 'git help «commanb' or 'git help «concepb'  to  D:  read about a specific subcommand or concept.  homo | Type git in the console, then hit enter. | There are a number of tools available on Azure Web App which can help you be productive while you're using the command line in your site. One of those tools is Git, which we can see a listing of the commands when we run it. |
| Machine generated alternative text: Kudu  Environment  Debug console -v  Process explorer  Tools -v  Site extensions  Modifed  1/15/2015,  1/12/2015,  7/18/2014,  1/12/2015,  AM  AM  Cory Fowler  Size  use old cons  / + 14 items e  Name  data  LogFiles  site  SiteExtensions  D : Xhomexurl  --help  usage: curl Coptions.  «urb  options: (H) means HTTP/HTTPS only, (F) means FTP only  --anyauth  --append  --basic  Pick "any" authentication method (H)  Append to target file when uploading (F/SFTP)  use HTTP Basic Authentication (H)  --cacert FILE CA certificate to verify peer against (SSL)  --capath DIR  CA di rectory to verify peer against (SSL)  --cert CERT C: PASSWD) Client certificate file and password (SSL)  --cert-type TYPE certificate file type (DER/PEM/ENG) (SSL)  --ciphers LIST  --compressed  --config FILE  SSL ciphers to use (SSL)  Request compressed response (using deflate or gzip)  specify which config file to read  --connect-timeout SECONDS Maximum time al owed for connecti on  --continue-at OFFSET Resumed transfer offset  --cookie STRING/FILE String or file to read cookies from (H)  --cookie-jar FILE  write cookies to this file after operation (H) | type curl --help in the console, then hit enter. | Another tool available on the machine is curl which is helpful for downloading files. This is handy when creating a Site Extension or testing functionality of a WebJob. |
| Machine generated alternative text: Kudu  Environment  Debug console -v  Process explorer  user name  helloallworlds  helloallworlds  helloallworlds  Tools -v  Site extensions  Cory Fowler  Refresh  properties  Properties..  Properties..  Properties..  webjob  pid  28316  43000  16360  Process Explorer  total  s  s  cpu  time  working set  123,024 KB  5,048 KB  15,628 KB  Find Handle...  name  scm  cmd.exe  webjob  DaaSRunner.exe  private  100,052  memory  KB  thread count  3,564 KB  11 ,264 KB | Click on Process explorer. | If your application has background processes, or CPU/Memory leaks, it's important to be able to check on the status of the processes. Process Explorer provides this information and the ability to kill a process if it is to get out of control. |
| Machine generated alternative text: Kudu  Environment  Debi  webjo  DaaSRunner.exe:16360 Properties  count  Cory Fowler  Refresh  properties  Properties..  Properties..  Properties..  General  name  Modules  Handles  Threads  Environment Variables  16360  DaaSRunner  helloallworldsffempljobsicontinuous  M)aaSlpy41 rxqu "NDaaSRunner_exe  DaaSRunner_exe  WebJob: DaaS, Type: continuous  IIS APPPOOL1helloallworlds  true  true  145  1 5,628 KB  1 5,628 KB  11 264 KB  124,876 KB  Find Handle..  name  scm  E cmd.exe  webjob  DaaSRunner.exe  file name  command line  description  user name  is scm site  is webjob  handle count  module countid  thread count  start time  total cpu time  user cpu time  privileged cpu time  working set  peak working set  private memory  virtual memory | Click on the Properties button, next to a process. | You can click on the properties button and look at a number of attributes of the process including Modules, Handles, and Threads that it's using. As well as the CPU time and memory usage. |
| Machine generated alternative text: Kudu  Environment  Debug console -v  Process explorer  user name  helloallworlds  helloallworlds  helloall  Kill  Tools -v  Site extensions  Cory Fowler  Refresh  properties  Properties..  Properties..  Properties..  pid  28316  43000  16360  Explorer  working set  123,024 KB  5,048 KB  15,628 KB  private  100,052  memory  KB  thread count  Process  total  cpu  time  Find Handle..  name  scm  cmd.exe  webjob  DaaSRunner.exe  webjob  3,564 KB  11 ,264 KB  Download Memory Dump  Download GC Dump  Properties | Right-Click on an item in the table to show the dialogue | There is also a quick context menu when you right click on an item which allows you to Kill the process, download a memory dump, or a garbage collection dump. |
| Machine generated alternative text: Kudu  Environment  Debug console -v  Process explorer  Tools -v  Site extensions  Cory Fowler  Diagnostic dump  Log stream  Web hooks  Download deployment script  Support  Environment  Build  Site up time  Site folder  Temp folder  42.31229.1323.0 (b75d192f64)  D:Xhome  helloallworldsXTempX | Click on Tools, Select Web Hooks. | Under the tools menu there are a number of great diagnostic features to further help you manage your website. I suggest looking into the Support site as there is some tremendous content available online which covers how to use it for diagnostics |
| Machine generated alternative text: Kudu  About  Environment  Debug console -v  Process explorer  Tools -v  Site extensions  Cory Fowler  Status  Reason  urls can be registered as web hooks. Information is posted to them when events occur.  Only "PostDeployment" event is supported for now.  Add Subscriber Url  Subscriber IJrl  Add url  Subscribed Web Hooks (View json)  Uri  Event  Last Callback Time | Point out the Add Subscriber | A web hook is a simple HTTP Request to a URL which is triggered by an event in Kudu, in this case PostDeployment. The HTTP Request is used to kick off an action by your application or a third party service. |
| [Zapier Demo](onenote:Azure%20Websites.one#Kudu%20Web%20Hooks%20with%20Zapier%20Demo&section-id={43991447-ABD3-4337-A0D7-974CB547D329}&page-id={5606FD35-82AB-4377-9034-556DA8AC6530}&base-path=https://d.docs.live.net/d288d15a18c7bf80/Documents/Demos) | Walk through Zapier demo instructions | To show off the power of Web Hooks I'm going to connect to a third party service called Zapier to send a tweet to my twitter account when a web job is kicked off. |
| Machine generated alternative text: Kudu  Installed  Environment  Gallery  Debug console -v  Process explorer  Tools -v  Site extensions  Search  Clear  Cory Fowler  Restart Site  Site Extension  Site Admin Tools  Version 42.31229.1323.0  By Project Kudu Team  Site administration and management  tools for your Azure Websites, including  a terminal, process viewer and more! | Click Site Extensions. | Site Extensions are a very interesting part of Kudu. It enables a developer to extend the Azure platform with administration panels, new language support, or additional platform features. |
| Machine generated alternative text: Kudu  Installed  Environment  Gallery  Debug console -v  Process explorer  Tools -v  Site extensions  Search  Clear  Cory Fowler  Restart Site  Azure Web Site Logs Browser  Version 1.6.4  By Amit Apple  Site extension to allow viewing of your  website log files on file system, Azure  blob storage and Azure table storage.  Site Extension  Site Admin Tools  Version 42.31229.1323.0  By Project Kudu Team  Visual Studio Online  Version 1.0.0-20141204  By Microsoft  A full featured browser based  development environment for editing  your website  Diagnostics as a Service  Version 42.31229.1323.0  By Microsoft  Site diagnostic tools, including Event  Viewer logs, memory dumps and http  logs.  Site administration and management  tools for your Azure Websites, including  a terminal, process viewer and more! | Click on Gallery. | Site Extensions can be both pre-installed (First-Party Microsoft & Partner Extensions) and Community Extensions (Third-Party Extensions) which are available in the Gallery. |
| Machine generated alternative text: Kudu  Installed  Environment  Gallery  Cory Fowler  Restart Site  Azure Web Site Logs Browser  Version 1.6.4  By Amit Apple  Site extension to allow viewing of your  website log files on file system, Azure  blob storage and Azure table storage.  Debug consol-  Acknowledgement  By clicking the Install button, I acknowledge that I am getting Visual Studio Online  from Microsoft and that the legal terms of Microsoft apply to it. Microsoft does not  provide rights for third-party software.  Visual Studio Online  Version 1.0.0-20141204  By Microsoft  A full featured browser based  development environment for editing  your website  logs.  Close  Install  a terminal,  process viewer and more! | Click the plus sign on Visual Studio Online, then Click Install.    (You'll have to restart the site) | We'll add Visual Studio Online "Monaco" Site Extension to our Web App. |
| Machine generated alternative text: Kudu  Installed  Environment  Gallery  Debug console -v  Process explorer  Tools -v  Site extensions  Search  Clear  Cory Fowler  Restart Site  Site Extension  Site Admin Tools  Version 42.31229.1323.0  By Project Kudu Team  Visual Studio Online  Version 1.0.0-20141204  By Microsoft  A full featured browser based  development environment for editing  your website  Site administration and management  tools for your Azure Websites, including  a terminal, process viewer and more! | Click on the "Play" button (triangle). | We can launch the Site Extension using the triangular button. |
| Machine generated alternative text: Visual Studio Online  EXPLORE  App_Code  App_Data  bin  Content  Scripts  Views  webapps  Global.asax  hello.asp  hello.aspx  hello.cshtml  hello.html  hello.js  hello.php  hello.py  hello.pyc  "Monaco"  helloallworlds -v  The service is in Preview mode. Please submit your feedback and thank you for helping us build a great service.  Quick Start  4 key tips about this environment  Cory Fowler I  o  e  Source control  Use Git to clone code into  your site, manage changes  and push to production  Quick Open  Find a file quickly with  Ctrl +0. You can also view  your recent history with  Ctrl+Q.  Side by side  View another file side by  side and in context  Auto-save  Files are automatically  saved in the background  hostingstart.aspx  hostingstart.html  packages.config  ROOT.war  web.config  View more tips on Channe19 0 | Click into the app\_data > jobs > triggered > EasyPSWebJob > run.ps1 | Monaco is the Visual Studio Online editor which allows us to modify our public site directly from the internet. This is an awesome feature, but with great power comes great responsibility. Use it wisely to avoid downtime on a production website. |
| Machine generated alternative text: Site Extensions  Search Site Extensions  Upload Site Extensions  Register / Sign in  Site settings  TRAFFIC  MAN AGER  NuGet  Install NuGet and create Site  Extensions as a NuGet package.  Home  Gallery  Configuraticn  Extensions  Installed Extensions  Terms of Use  Microsoft Azure Website Terms  of Use  What are Site Extensions?  Site Extensions enhance your ability to  manage your Azure Websites.  Try Azure Websites  Azure Management Portal  Privacy  Microsoft Azure Privacy  Statement  Overview  Azure Site Extensions help you  manage your Azure Websites.  Azure Websites  Site Extensions run on Microsoft  Azure Websites | (Pre-Open this tab) Switch to the tab which has <http://siteextensions.net> loaded | You can upload your own site extensions, these are packaged using the NuGet Packaging format. |