

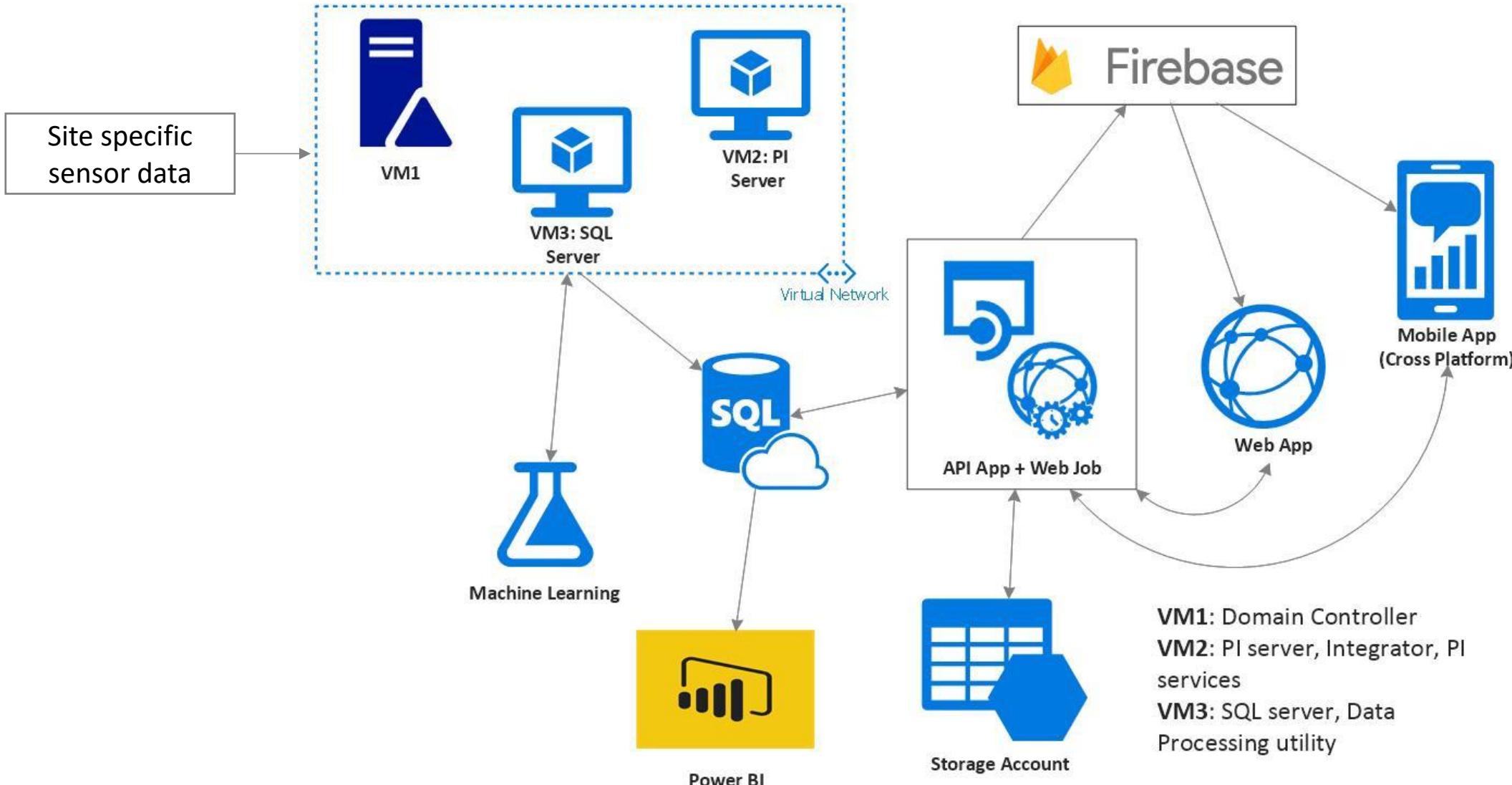


# Deployment documentation

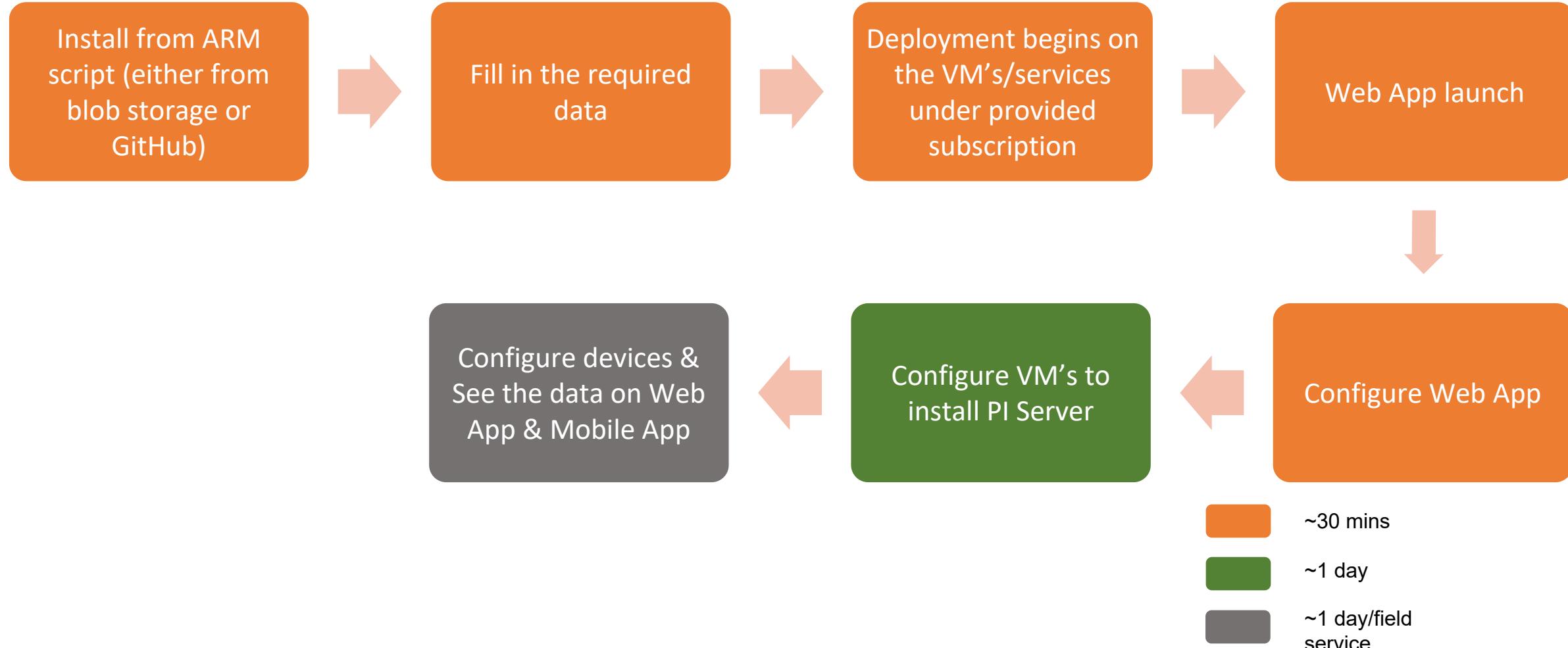
---

## Energy Management Accelerator

# Deployment diagram of solution



# High Level deployment process to be followed



# Prerequisites

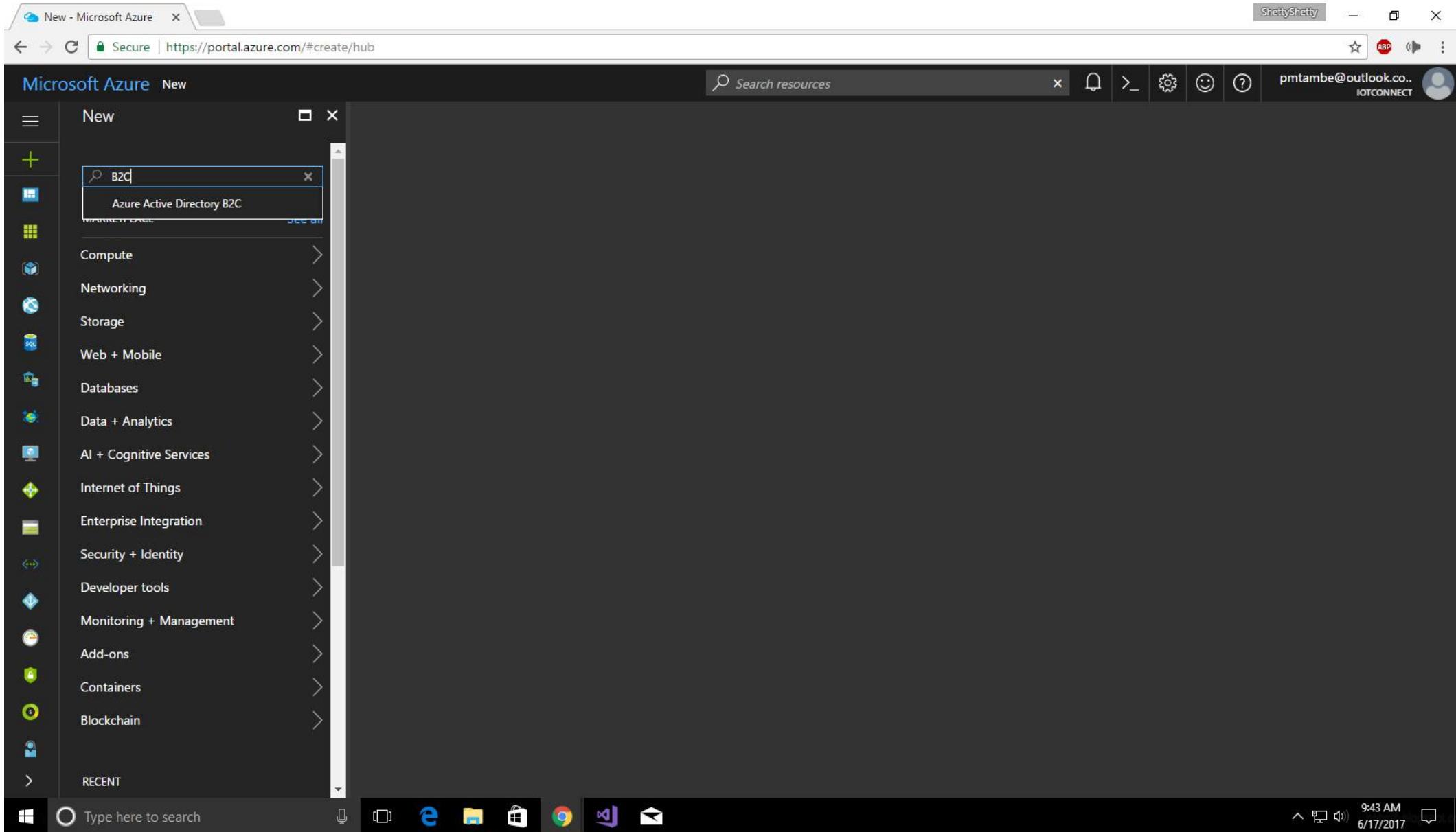
- [VHDs for PI Server and PI BA VMs](#)
- Azure B2C tenant with users and application registered
- Power BI account and Power BI desktop app.
- Firebase notification registered application
- ARM script (Refer to ARM script and README.md file to configure ARM script)
- Power BI templates
- Data Processing utility

# VM Architecture

We need to create the VHDs for the VMs after installing the following components.

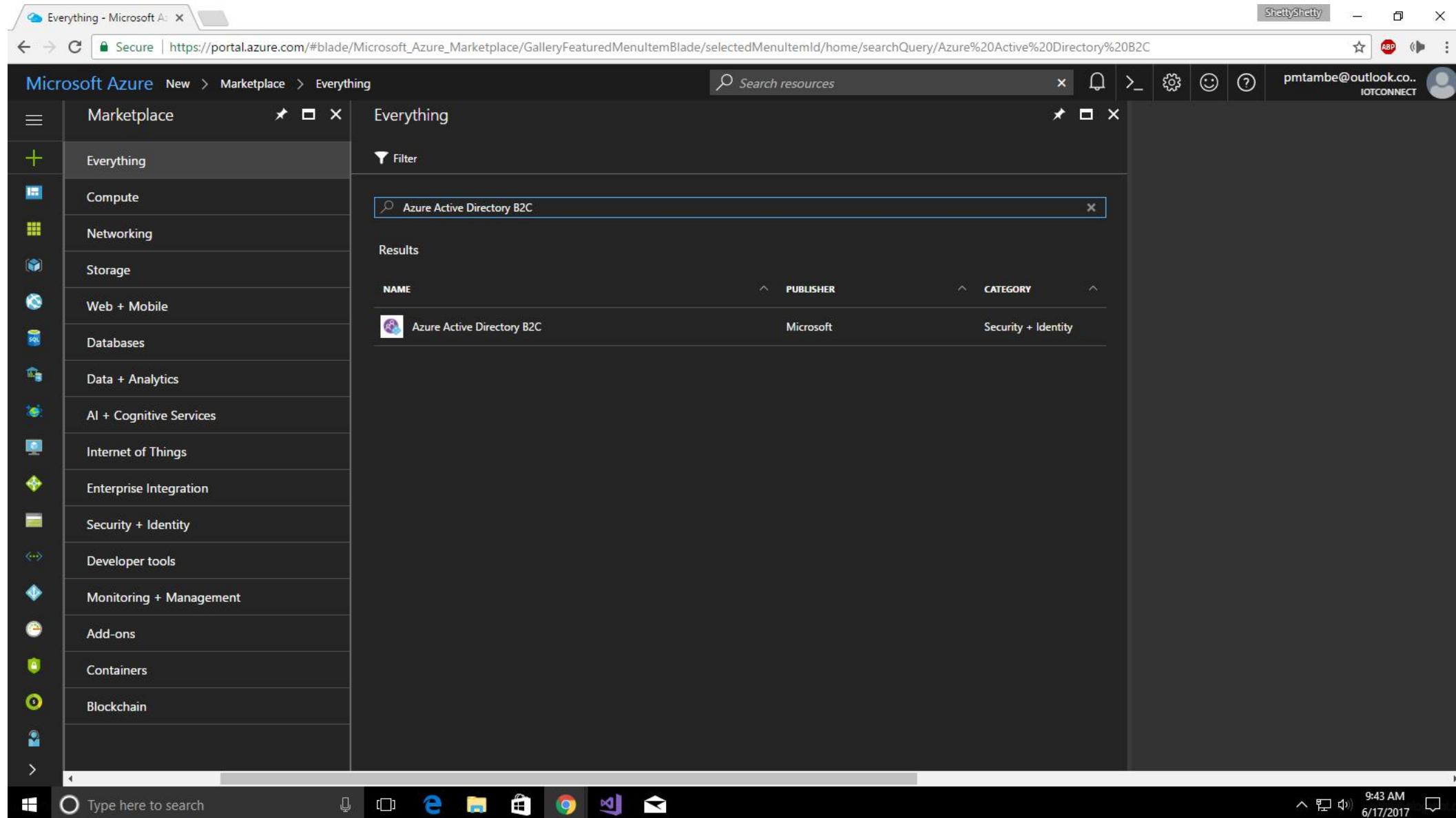
VHD	Description of components
VHD1	Domain Controller VM (aka Win Server VM) a. Domain Controller
VHD2	SQL Server VM a. AF Server b. SQL Server with DB c. PI Data Archive d. PI Web API e. Simulator f. Data processing utility
VHD3	PI Core VM a. PI BA

# Login to Azure Portal - Creating AAD B2C



The screenshot shows the Microsoft Azure portal interface. At the top, there's a header bar with the title "New - Microsoft Azure" and a URL "https://portal.azure.com/#create/hub". On the right side of the header, there's a user profile for "ShettyShetty" and an email "pmtambe@outlook.co.. IOTCONNECT". Below the header is a search bar labeled "Search resources". The main area is titled "New" and features a sidebar on the left with various service categories like Compute, Networking, Storage, etc. A search input field at the top of the sidebar contains the text "B2C". A dropdown menu is open under the search field, showing "Azure Active Directory B2C" as the first result. The rest of the sidebar lists other services such as Compute, Networking, Storage, Web + Mobile, Databases, Data + Analytics, AI + Cognitive Services, Internet of Things, Enterprise Integration, Security + Identity, Developer tools, Monitoring + Management, Add-ons, Containers, and Blockchain. At the bottom of the sidebar, there's a "RECENT" section. The bottom of the screen shows the Windows taskbar with icons for Start, Search, Task View, Edge, File Explorer, Taskbar settings, and Mail. The system tray shows the date and time as "9:43 AM 6/17/2017".

# Search Azure Active Directory B2C



The screenshot shows a Microsoft Edge browser window with the URL [https://portal.azure.com/#blade/Microsoft\\_Azure\\_Marketplace/GalleryFeaturedMenuItemBlade/selectedMenuItemId/home/searchQuery/Azure%20Active%20Directory%20B2C](https://portal.azure.com/#blade/Microsoft_Azure_Marketplace/GalleryFeaturedMenuItemBlade/selectedMenuItemId/home/searchQuery/Azure%20Active%20Directory%20B2C). The page title is "Everything - Microsoft Azure". The user is signed in as "ShettyShetty" with the email "pmtambe@outlook.co.. IOTCONNECT".

The left sidebar shows the "Marketplace" navigation menu with categories like Everything, Compute, Networking, Storage, Web + Mobile, Databases, Data + Analytics, AI + Cognitive Services, Internet of Things, Enterprise Integration, Security + Identity, Developer tools, Monitoring + Management, Add-ons, Containers, and Blockchain.

The main search results page has a header "Everything" and a search bar containing "Azure Active Directory B2C". The results table has columns: NAME, PUBLISHER, and CATEGORY. One result is listed:

NAME	PUBLISHER	CATEGORY
Azure Active Directory B2C	Microsoft	Security + Identity

Azure Active Directory B2C

Secure | https://portal.azure.com/#blade/Microsoft\_Azure\_Marketplace/GalleryFeaturedMenuItemBlade/selectedMenuItemId/home/searchQuery/Azure%20Active%20Directory%20B2C/resetMenuId/

Microsoft Azure New > Marketplace > Everything > Azure Active Directory B2C

Search resources

Everything

Filter

Azure Active Directory B2C

Results

NAME PUBLISHER CATEGORY

Azure Active Directory B2C Microsoft Security + Identity

Azure Active Directory B2C Microsoft

Consumer identity and access management in the cloud

A highly available, global, identity management service for customer-facing applications that scales to hundreds of millions of identities. It can be easily integrated across mobile and web platforms. Your customers can log on to all your applications through fully customizable experiences by using their existing social accounts or by creating new credentials.

- Protect your consumer's identities
- Login with social media accounts
- Customizable user experiences
- Pay only for what you use

Get started today with a free tier up to 50,000 users and 50,000 authentications per month for Pay As You Go Azure subscriptions. A subscription is not required.

[Twitter](#) [Facebook](#) [LinkedIn](#) [YouTube](#) [GitHub](#) [Email](#)

Microsoft Azure: Azure AD B2C SETTINGS > Settings > All policies > B2C\_1\_SignupSignin

After settings

- Applications
- Identity providers
- User attributes
- Users and groups
- Rules
- Sign-up policies
- Sign-in policies
- Sign-up or sign-in policies
- Profile editing policies
- Password reset policies
- All policies

B2C\_1\_Personal

B2C\_1\_Feedback

B2C\_1\_Signup

B2C\_1\_Signin

Metadata endpoint for the policy

Run Policy

Start application

Site App

Select Reply URL

http://myapp.com

Create

https://azure.microsoft.com/documentation/articles/active-directory-b2c-get-started

Type here to search

9:43 AM 6/17/2017

Create new B2C Tenant X

Secure | https://portal.azure.com/#create/Microsoft.AzureADB2C

Microsoft Azure < Azure Active Directory B2C > Create new B2C Tenant or Link to existing Tenant

Search resources

x 🔍 >\_ ⚙️ 😊 🌐 ? pmtambe@outlook.co.. IOTCONNECT

Create new B2C Tenant or Link to existing Tenant

+ Create a new Azure AD B2C Tenant®

Link an existing Azure AD B2C Tenant to my Azure subscription®

Type here to search

9:43 AM 6/17/2017

Azure AD B2C Create Tenant

Secure | https://portal.azure.com/#create/Microsoft.AzureADB2C

Microsoft Azure < Create new B2C Tenant or Link to existing Tenant > Azure AD B2C Create Tenant

Create new B2C Tenant or Link to existing Tenant

Create a new Azure AD B2C Tenant®

Link an existing Azure AD B2C Tenant to my Azure subscription®

Azure AD B2C Create Tenant

\* Organization name ●  
deploydemo

\* Initial domain name ●  
deploydemo123

Country or region ●  
United States

Directory creation will take about one minute.

Create

ShettyShetty

pmtambe@outlook.co.. IOTCONNECT

Type here to search

9:44 AM 6/17/2017

Azure AD B2C Create Tenant

Secure | https://portal.azure.com/#create/Microsoft.AzureADB2C

Microsoft Azure < Create new B2C Tenant or Link to existing Tenant > Azure AD B2C Create Tenant

Create new B2C Tenant or Link to existing Tenant

Create a new Azure AD B2C Tenant

Link an existing Azure AD B2C Tenant to my Azure subscription

Azure AD B2C Create Tenant

\* Organization name: deploydemo

\* Initial domain name: deploydemo123  
deploydemo123.onmicrosoft.com

Country or region: United States

Click here, to manage your new directory

Create

ShettyShetty

pmtambe@outlook.co IOTCONNECT

9:45 AM 6/17/2017

Dashboard - Microsoft A

Secure | https://portal.azure.com/#

## Microsoft Azure

### Dashboard

All resources ALL SUBSCRIPTIONS

	webjobstrewinfocfm... Storage account	Running
	mseastus Storage account	Running
	emdeployment Storage account	Running
	emdeploy Storage account	Running
	emreleasemtr Storage account	Deleted
	mspowersgrid SQL server	Running
	SQLServer12 Virtual machine (classic)	Running
	msvmvhds Storage account	Running
	anomalymoutput Storage account	Running

msfirstwebjob WEB APP

pepper-generalbot BOT SERVICE

mobiliya-pizzabot BOT SERVICE

TempSQLServerVM

pepper-pizzabot BOT SERVICE

mobiliya-generalbot BOT SERVICE

Azure Health MY RESOURCES

Marketplace

Search resources

ShettyShetty

pmtambe@outlook.co... IOTCONNECT

Sign out

ADnacer

ADtn.onmicrosoft.com

CSUB2C

CSUB2C.onmicrosoft.com

PowerGridAD

mspowersgrid.onmicrosoft.com

Répertoire par défaut

tracerhotmail.onmicrosoft.co...

SevitalB2C

SevitalB2C.onmicrosoft.com

cevitaldevb2c

cevitaldevb2c.onmicrosoft.co...

deploydemo

deploydemo123.onmicrosoft...

doubledeckerdoglive (Default D

doubledeckerdoglive.onmicrosoft...

temp123

temp123b2c.onmicrosoft.com

https://portal.azure.com

Type here to search

9:46 AM 6/17/2017

Dashboard - Microsoft A

Secure | https://portal.azure.com/#dashboard/private/197416db-a911-4508-af01-5a2970d0d00f

Microsoft Azure

Dashboard + New

All resources ALL SUBSCRIPTIONS

No resources to display  
Try changing your filters if you don't see what you're looking for. Learn more

Create resources

Azure Health MY RESOURCES

Marketplace

Quickstart tutorials

Azure AD B2C

Search Azure AD B2C in all resources  
Search Azure AD B2C in resource groups

Windows Virtual Machines Provision Windows Server, SQL Server, SharePoint VMs

Linux Virtual Machines Provision Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions Process events with a serverless code architecture

SQL Database Managed relational SQL Database as a Service

Help us improve search!

ShettyShetty

pmtambe@outlook.co..  
DEPLOYDEMO

https://portal.azure.com

Type here to search

9:47 AM 6/17/2017

Subscription reminder - x ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Subscription reminder

AZURE AD B2C SETTINGS deploydemo123.onmicrosoft.com

Settings

No Subscription linked to this B2C tenant or the Subscription needs your attention. →

Essentials ^

Domain name: deploydemo123.onmicrosoft.com Tenant type: Production-scale tenant

Metered: Yes Subscription status: No subscription

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Azure AD B2C

Subscription reminder

This B2C tenant must be linked to an active Azure subscription for communication, support and billing. [Learn More](#)

If your Subscription status is No Subscription, please link this B2C tenant to an Azure subscription,

1. Switch Directories to the location of your target Azure subscription
2. Under Marketplace, search for and select 'B2C'
3. Select Create to link this B2C Tenant to a subscription

If your Subscription status is Warned, Suspended or Deleted, navigate to the linked Subscription for more information,

1. Switch Directories to the location of the Azure subscription linked to this B2C Tenant
2. Under All Resources click on your B2C Tenant resource
3. Under Essentials select your subscription and review Subscription status

Subscription reminder - | x

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Subscription reminder

Azure AD B2C

Subscription reminder

No Subscription linked to this B2C tenant or the Subscription needs your attention.

Domain name: deploydemo123.onmicrosoft.com  
Tenant type: Production-scale tenant  
Metered: Yes  
Subscription status: No subscription

If your Subscription status is No Subscription, please link this B2C tenant to an Azure subscription.

1. Switch Directories to the location of your target Azure subscription
2. Under Marketplace, search for and select 'B2C'
3. Select Create to link this B2C Tenant to a subscription

If your Subscription status is Warned, Suspended or Deleted, navigate to the linked Subscription for more information.

1. Switch Directories to the location of the Azure subscription linked to this B2C Tenant
2. Under All Resources click on your B2C Tenant resource
3. Under Essentials select your subscription and review Subscription status

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Type here to search

9:50 AM 6/17/2017

Subscription reminder - | x

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

**Microsoft Azure AZURE AD B2C SETTINGS > Subscription reminder**

Azure AD B2C

Subscription reminder

No Subscription linked to this B2C tenant or the Subscription needs your attention.

Essentials

Domain name: deploydemo123.onmicrosoft.com Tenant type: Production-scale tenant  
Metered: Yes Subscription status: No subscription

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

This B2C tenant must be linked to an active Azure subscription for communication, support and billing. Learn More

If your Subscription status is No Subscription, please link this B2C tenant to an Azure subscription,

1. Switch Directories to the location of your target Azure subscription
2. Under Marketplace, search for and select 'B2C'
3. Select Create to link this B2C Tenant to a subscription

If your Subscription status is Warned, Suspended or Deleted, navigate to the linked Subscription for more information,

1. Switch Directories to the location of the Azure subscription linked to this B2C Tenant
2. Under All Resources click on your B2C Tenant resource
3. Under Essentials select your subscription and review Subscription status

Sign out

ADnacer

ADtn.onmicrosoft.com

CSUB2C

CSUB2C.onmicrosoft.com

IoTConnect

iotconnect.onmicrosoft.com

PowerGridAD

mspowergrid.onmicrosoft.com

Répertoire par défaut

tracerhotmail.onmicrosoft.co...

SevitalB2C

SevitalB2C.onmicrosoft.com

cevitaldevb2c

cevitaldevb2c.onmicrosoft.co...

doubledeckerdoglive (Default D

doubledeckerdoglive.onmic...

temp123

temp123b2c.onmicrosoft.com

ShettyShetty

pmtambe@outlook.co.. DEPLOYDEMO

9:50 AM 6/17/2017

New - Microsoft Azure

Secure | https://portal.azure.com/#create/hub

Microsoft Azure New

Search resources

ShettyShetty

B2c

Azure Active Directory B2C

New

+

Compute

Networking

Storage

Web + Mobile

Databases

Data + Analytics

AI + Cognitive Services

Internet of Things

Enterprise Integration

Security + Identity

Developer tools

Monitoring + Management

Add-ons

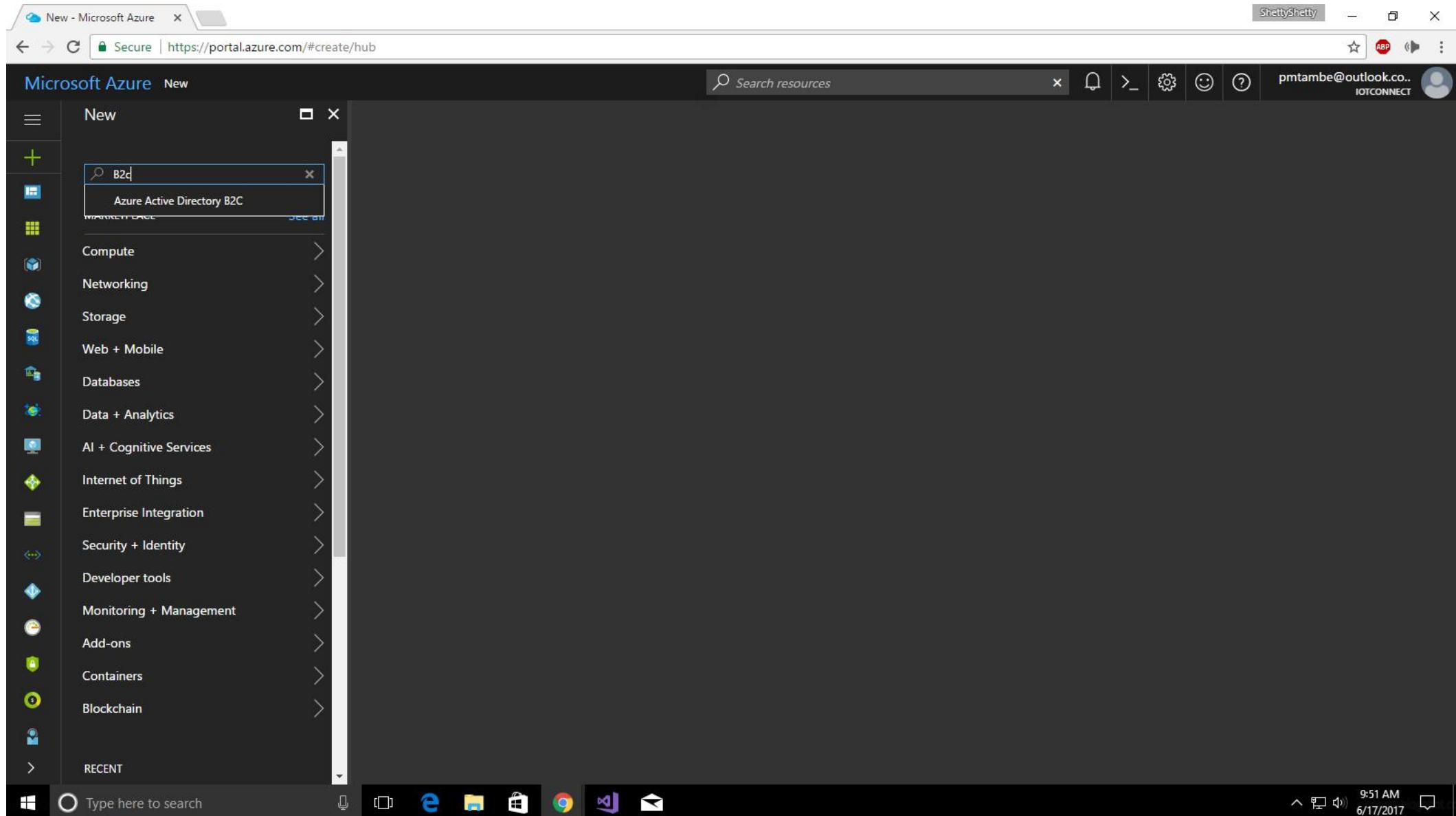
Containers

Blockchain

RECENT

Type here to search

9:51 AM  
6/17/2017



Everything - Microsoft Azure

Secure | https://portal.azure.com/#blade/Microsoft\_Azure\_Marketplace/GalleryFeaturedMenuItemBlade/selectedMenuItemId/home/searchQuery/Azure%20Active%20Directory%20B2C

Microsoft Azure New > Marketplace > Everything

Search resources

Everything

Filter

Azure Active Directory B2C

Results

NAME	PUBLISHER	CATEGORY
Azure Active Directory B2C	Microsoft	Security + Identity

Marketplace

- Everything
- Compute
- Networking
- Storage
- Web + Mobile
- Databases
- Data + Analytics
- AI + Cognitive Services
- Internet of Things
- Enterprise Integration
- Security + Identity
- Developer tools
- Monitoring + Management
- Add-ons
- Containers
- Blockchain

Type here to search

9:51 AM  
6/17/2017

Azure Active Directory B2C

Secure | https://portal.azure.com/#blade/Microsoft\_Azure\_Marketplace/GalleryFeaturedMenuItemBlade/selectedMenuItemId/home/searchQuery/Azure%20Active%20Directory%20B2C/resetMenuId/

Microsoft Azure New > Marketplace > Everything > Azure Active Directory B2C

Search resources

Everything

Filter

Azure Active Directory B2C

Results

NAME	PUBLISHER	CATEGORY
Azure Active Directory B2C	Microsoft	Security + Identity

Azure Active Directory B2C Microsoft

Consumer identity and access management in the cloud

A highly available, global, identity management service for customer-facing applications that scales to hundreds of millions of identities. It can be easily integrated across mobile and web platforms. Your customers can log on to all your applications through fully customizable experiences by using their existing social accounts or by creating new credentials.

- Protect your consumer's identities
- Login with social media accounts
- Customizable user experiences
- Pay only for what you use

Get started today with a free tier up to 50,000 users and 50,000 authentications per month for Pay As You Go Azure subscriptions. A subscription is not required.

[Twitter](#) [Facebook](#) [LinkedIn](#) [YouTube](#) [GitHub](#) [Email](#)

Microsoft Azure: Azure AD B2C SETTINGS > Settings > All policies > B2C\_1\_SignupSignin

After settings

- Applications
- Identity providers
- User attributes
- Users and groups
- Rules
- Sign-up policies
- Sign-in policies
- Sign-up or sign-in policies
- Profile editing policies
- Password reset policies
- All policies

B2C\_1\_Personal

B2C\_1\_Forgot

B2C\_1\_Signin

B2C\_1\_Signup

B2C\_1\_SignupSignin

Metadata endpoint for the policy

Run Policy

Select Reply URL

Create

https://twitter.com/intent/tweet?text=Just discovered Azure Active Directory B2C is available from Microsoft %23Azure Marketplace. And it%27s awesome! https%3A%2F%2Fazure.microsoft.com%2Fservices%2Factive-directory%2F%3Futm\_source%3Dmkt-AzureADB2C%26utm\_content%3D27b18... 9:51 AM 6/17/2017

Create new B2C Tenant X

Secure | https://portal.azure.com/#create/Microsoft.AzureADB2C

Microsoft Azure < Azure Active Directory B2C > Create new B2C Tenant or Link to existing Tenant

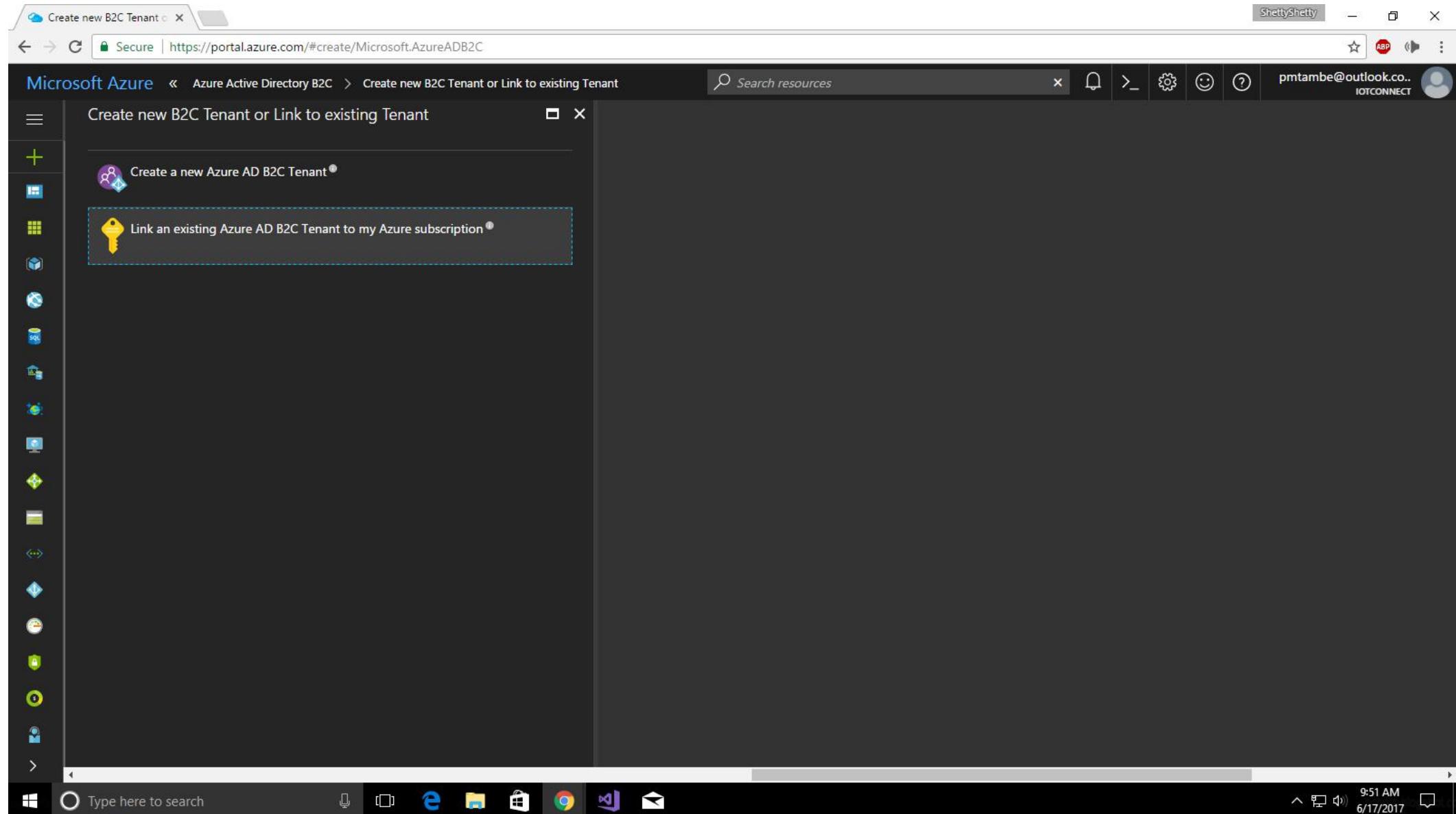
Search resources

pmtambe@outlook.co.. IOTCONNECT

Create new B2C Tenant or Link to existing Tenant

Create a new Azure AD B2C Tenant®

Link an existing Azure AD B2C Tenant to my Azure subscription®



Type here to search

9:51 AM 6/17/2017

Azure AD B2C Resource > Microsoft Azure < Create new B2C Tenant or Link to existing Tenant > Azure AD B2C Resource

Secure | https://portal.azure.com/#create/Microsoft.AzureADB2C

Search resources

Create new B2C Tenant or Link to existing Tenant

Create a new Azure AD B2C Tenant

Link an existing Azure AD B2C Tenant to my Azure subscription

Azure AD B2C Resource

Azure AD B2C Tenant: temp123b2c.onmicrosoft.com, SevitalB2C.onmicrosoft.com, deploydemo123.onmicrosoft.com

Subscription: CSU Pilot

Resource group: Create new (radio button selected)

Resource group location: South Central US

Pin to dashboard

Create

ShettyShetty

pmtambe@outlook.co.. IOTCONNECT

Type here to search

9:52 AM 6/17/2017

Azure AD B2C Resource > Microsoft Azure < Create new B2C Tenant or Link to existing Tenant > Azure AD B2C Resource

Secure | https://portal.azure.com/#create/Microsoft.AzureADB2C

Search resources

Create new B2C Tenant or Link to existing Tenant

Create a new Azure AD B2C Tenant

Link an existing Azure AD B2C Tenant to my Azure subscription

Azure AD B2C Resource

\* Azure AD B2C Tenant: deploydemo123.onmicrosoft.com

Azure AD B2C Resource name: deploydemo123.onmicrosoft.com

\* Subscription: CSU Pilot

\* Resource group: Create new DeployDemo

Resource group location: West Central US

Pin to dashboard

Create

ShettyShetty

pmtambe@outlook.co.. IOTCONNECT

Type here to search

9:52 AM 6/17/2017

Azure AD B2C Resource > Microsoft Azure < Create new B2C Tenant or Link to existing Tenant > Azure AD B2C Resource

Secure | https://portal.azure.com/#create/Microsoft.AzureADB2C

Search resources

Create new B2C Tenant or Link to existing Tenant

Create a new Azure AD B2C Tenant

Link an existing Azure AD B2C Tenant to my Azure subscription

Azure AD B2C Resource

\* Azure AD B2C Tenant: deploydemo123.onmicrosoft.com

Azure AD B2C Resource name: deploydemo123.onmicrosoft.com

\* Subscription: CSU Pilot

\* Resource group: Create new DeployDemo

Resource group location: West Central US

Pin to dashboard

Create

Dashboard - Microsoft A x

Secure | https://portal.azure.com/#

## Microsoft Azure

Dashboard + New

All resources ALL SUBSCRIPTIONS

	webjobstrewinfocfm...	Storage account
	mseastus	Storage account
	emdeployment	Storage account
	emdeploy	Storage account
	emreleasemtr	Storage account
	mspowersgrid	SQL server
	SQLServer12	Virtual machine (classic)
	msvmvhds	Storage account
	anomalymloutput	Storage account

msfirstwebjob WEB APP

	Running	
	Running	
	Running	

TempSQLServerVM

	Deleted	
	Running	

Azure Health MY RESOURCES



Marketplace

demo

deploydemo123.onmicrosoft.com B2C TENANT

deploydemo123.onmicrosoft.com B2C Tenant

Search demo in all resources

Resource group: DeployDemo Subscription: CSU Pilot

Searching all subscriptions. Change subscription filter.

Help us improve search!

ShettyShetty -

pmtambe@outlook.co... IOTCONNECT

https://portal.azure.com

Type here to search

9:53 AM 6/17/2017

Dashboard - Microsoft A

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.AzureActiveDirectory/b2cDirectories/deploydemo123.onmicrosoft. ShettyShetty

Microsoft Azure deploydemo123.onmicrosoft.com

Search demo

deploydemo123.onmicrosoft.com B2C Tenant

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

Properties

SUPPORT + TROUBLESHOOTING

New support request

Delete Move

Essentials

Resource group (change) DeployDemo

Location United States

Subscription name (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Azure AD B2C Tenant  
deploydemo123.onmicrosoft.com

Tenant ID f7f1c43b-3251-45eb-a26e-bee3ba7d6d54

Azure AD B2C Settings  
deploydemo123.onmicrosoft.com

Type here to search 9:53 AM 6/17/2017

Dashboard - Microsoft A Applications - Microsoft

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

ShettyShetty

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications

AZURE AD B2C SETTINGS  
deploydemo123.onmicrosoft.com

+ Settings

Essentials ^

Domain name: deploydemo123.onmicrosoft.com Tenant type: Production-scale tenant

Metered: Yes Subscription status: Registered

Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a Resource name: deploydemo123.onmicrosoft.com

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Search resources

Filter settings

Settings  
deploydemo123.onmicrosoft.com

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies >
- Sign-in policies >
- All policies >

Applications

+ Add

NAME	APPLICATION ID
No applications found in the tenant	

Dashboard - Microsoft A New application - Micros ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > New application

Search resources

Applications

+ Add

NAME APPLICATION ID

No applications found in the tenant

New application

\* Name  ✓

Web App / Web API

Include web app / web API

Yes No

Allow implicit flow

Yes No

Redirect URLs must all belong to the same domain

Reply URL  ...

App ID URI (optional)  ...

Native client

Include native client

Yes No

Create

Type here to search

9:54 AM 6/17/2017

Dashboard - Microsoft A x Properties - Microsoft A x

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

Search resources

Applications

+ Add

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

deploydemo - Properties

Save Discard Delete

Name **\***: deploydemo

Application ID **\***: d98c5151-0c4a-4991-a228-bd1268722dec

Web App / Web API

Include web app / web API **\***: Yes

Allow implicit flow **\***: Yes

Redirect URIs must all belong to the same domain

Reply URL **\***: https://abc.com

App ID URI (optional)

Native client

Include native client **\***: Yes

Type here to search

9:55 AM 6/17/2017

Dashboard - Microsoft A x Properties - Microsoft A x

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

ShettyShetty

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

Search resources

AZURE AD B2C SETTINGS  
deploydemo123.onmicrosoft.com

Settings

Essentials ^

Domain name: deploydemo123.onmicrosoft.com  
Tenant type: Production-scale tenant  
Subscription status: Registered  
Resource name: deploydemo123.onmicrosoft.com  
Metered: Yes  
Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Settings

Applications

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies >
- Sign-in policies >
- All policies >

Applications

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

GENI API

9:55 AM 6/17/2017

Type here to search

Windows Start Button

Microphone icon

File icon

Edge icon

File Explorer icon

Windows icon

Google Chrome icon

Power icon

Email icon

Dashboard - Microsoft A Sign-up policies - Micros

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

ShettyShetty

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-up policies

AZURE AD B2C SETTINGS  
deploydemo123.onmicrosoft.com

+ Settings

Essentials ^

Domain name: deploydemo123.onmicrosoft.com  
Tenant type: Production-scale tenant  
Metered: Yes  
Subscription status: Registered  
Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a  
Resource name: deploydemo123.onmicrosoft.com

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Search resources

Settings  
deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications
- Identity providers
- User attributes
- Users and groups

POLICIES

- Sign-up or sign-in policies
- Profile editing policies
- Password reset policies
- Sign-up policies
- Sign-in policies
- All policies

Sign-up policies  
deploydemo123.onmicrosoft.com

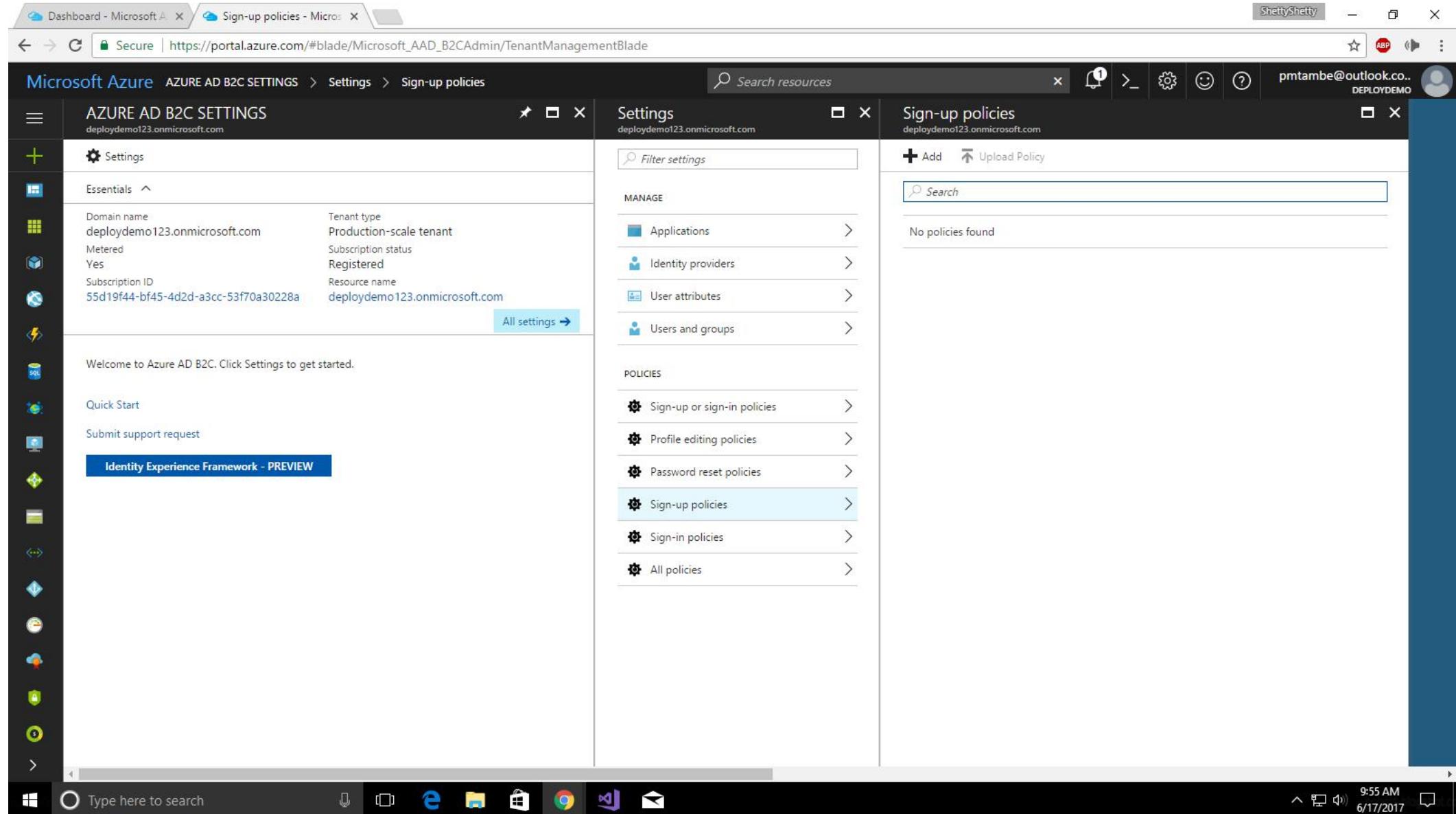
+ Add    Upload Policy

Search

No policies found

Type here to search

9:55 AM 6/17/2017



Dashboard - Microsoft A X Add policy - Microsoft A X ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-up policies > Add policy

Search resources

Settings deploydemo123.onmicrosoft.com

Sign-up policies deploydemo123.onmicrosoft.com

Add policy New sign-up policy

Tenant type  
Production-scale tenant  
Subscription status  
Registered  
Resource name  
deploydemo123.onmicrosoft.com

All settings →

get started.

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies > **Selected**
- Sign-in policies >
- All policies >

No policies found

+ Add Upload Policy

Search

\* Name

\* Identity providers

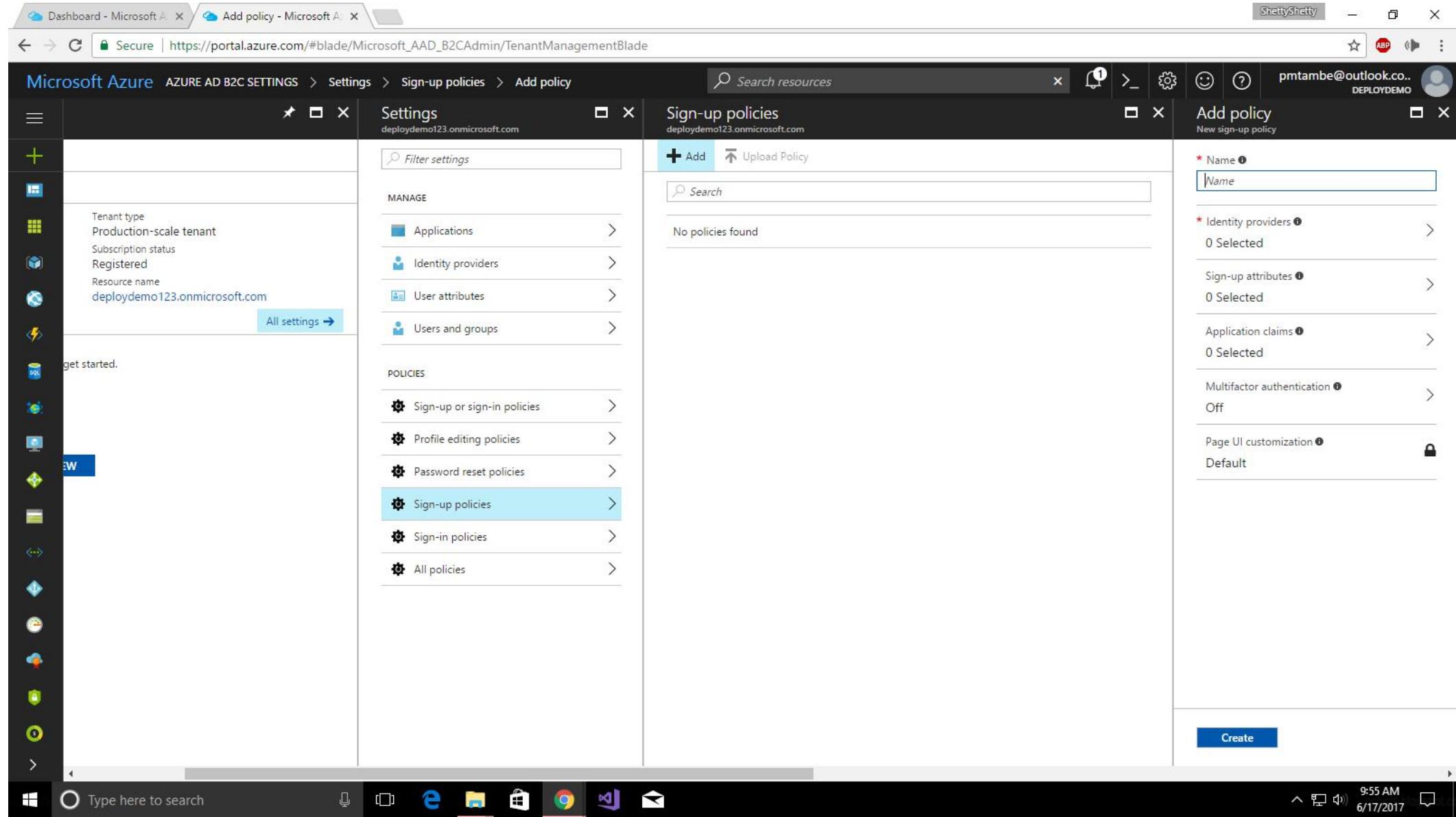
Sign-up attributes

Application claims

Multifactor authentication

Page UI customization

Create



Dashboard - Microsoft A Select identity providers

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure < Settings > Sign-up policies > Add policy > Select identity providers

Sign-up policies deploydem0123.onmicrosoft.com

+ Add Upload Policy

No policies found

Add policy New sign-up policy

\* Name sign-up1

\* Identity providers 0 Selected

Sign-up attributes 0 Selected

Application claims 0 Selected

Multifactor authentication Off

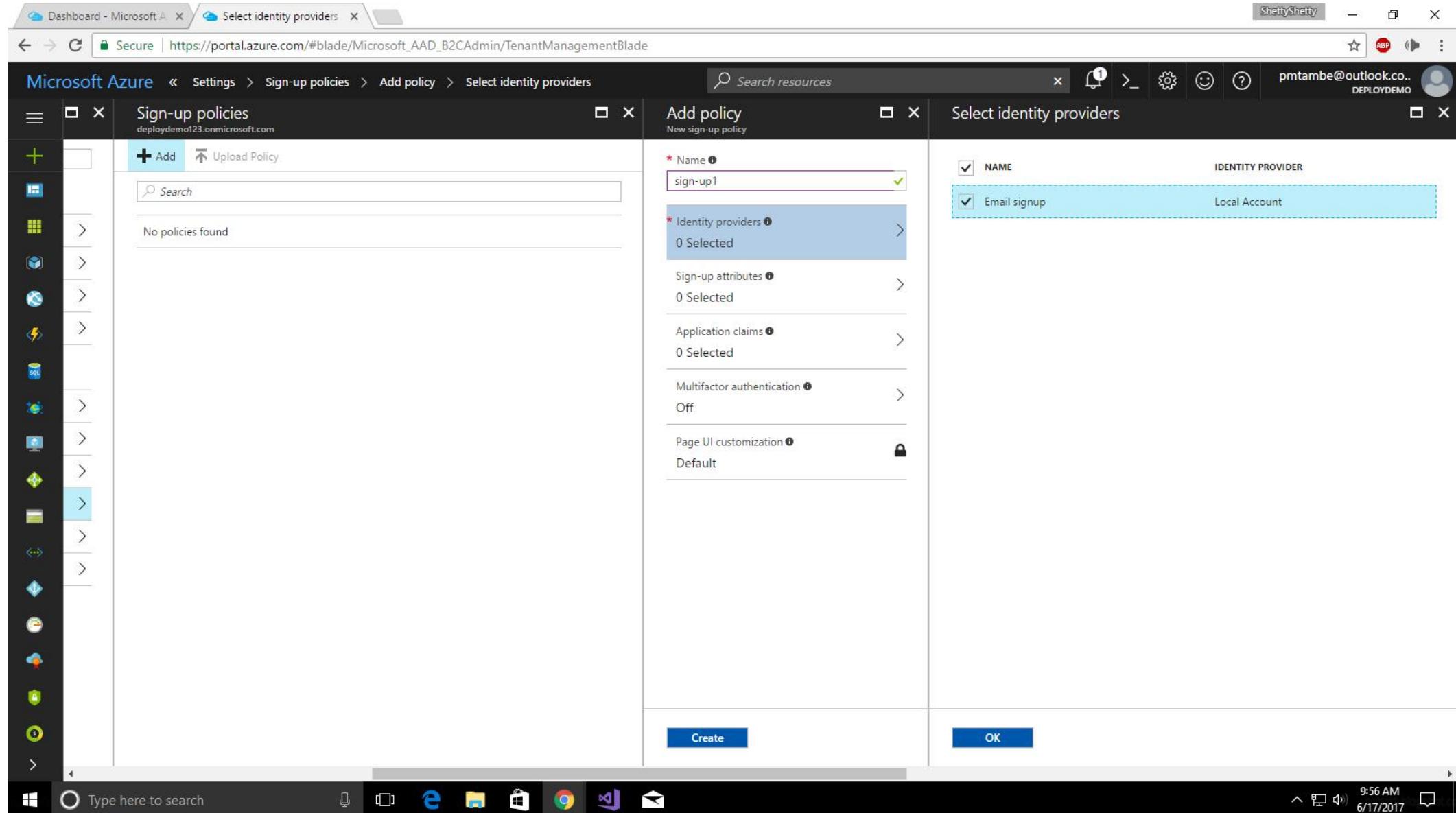
Page UI customization Default

Create OK

Select identity providers

NAME	IDENTITY PROVIDER
Email signup	Local Account

Type here to search 9:56 AM 6/17/2017



Dashboard - Microsoft A Select sign-up attributes

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure < Settings > Sign-up policies > Add policy > Select sign-up attributes

Add policy New sign-up policy

\* Name sign-up1

\* Identity providers 1 Selected

Sign-up attributes 0 Selected

Application claims 0 Selected

Multifactor authentication Off

Page UI customization Default

Search resources

ShettyShetty

pmtambe@outlook.co..  
DEPLOYDEMO

Select sign-up attributes

NAME	DATA TYPE	DESCRIPTION	ATTRIBUTE TYPE
City	String	The city in which the user is located.	Built-in
Country/Region	String	The country/region in which the user is located.	Built-in
Display Name	String	Display Name of the User	Built-in
Email Address	String		Built-in
Given Name	String	The user's given name (also known as first name).	Built-in
Job Title	String	The user's job title.	Built-in
Postal Code	String	The postal code of the user's address.	Built-in
State/Province	String	The state or province in user's address.	Built-in
Street Address	String	The street address where the user is located	Built-in
Surname	String	The user's surname (also known as family name or last name).	Built-in

Create OK

Type here to search

9:56 AM 6/17/2017

Dashboard - Microsoft A Select application claims

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure < Settings > Sign-up policies > Add policy > Select application claims

Add policy New sign-up policy

\* Name  ✓

\* Identity providers  >

Sign-up attributes  >

Application claims  >

Multifactor authentication  >

Page UI customization  >

Search resources  x

ShettyShetty -        pmtambe@outlook.co.. DEPLOYDEMO

**Select application claims**

<input checked="" type="checkbox"/>	NAME	CLAIM TYPE	DATA TYPE	DESCRIPTION	ATTRIBUTE TYPE
<input checked="" type="checkbox"/>	City	city	String	The city in which the user is located.	Built-in
<input checked="" type="checkbox"/>	Country/Region	country	String	The country/region in which the user is located.	Built-in
<input checked="" type="checkbox"/>	Display Name	displayName	String	Display Name of the User	Built-in
<input checked="" type="checkbox"/>	Email Addresses	emails	StringCollection	Email addresses of the user.	Built-in
<input checked="" type="checkbox"/>	Given Name	givenName	String	The user's given name (also known as first name).	Built-in
<input checked="" type="checkbox"/>	Identity Provider	identityProvider	String	The social identity provider used by the user to access to your ap...	Built-in
<input checked="" type="checkbox"/>	Job Title	jobTitle	String	The user's job title.	Built-in
<input checked="" type="checkbox"/>	Postal Code	postalCode	String	The postal code of the user's address.	Built-in
<input checked="" type="checkbox"/>	State/Province	state	String	The state or province in user's address.	Built-in
<input checked="" type="checkbox"/>	Street Address	streetAddress	String	The street address where the user is located	Built-in
<input checked="" type="checkbox"/>	Surname	surname	String	The user's surname (also known as family name or last name).	Built-in
<input checked="" type="checkbox"/>	User is new	newUser	Boolean	True, if the user has just signed-up for your application	Built-in
<input checked="" type="checkbox"/>	User's Object ID	objectId	String	Object identifier (ID) of the user object in Azure AD.	Built-in

Type here to search         9:56 AM 6/17/2017

Dashboard - Microsoft A X Add policy - Microsoft A X

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-up policies > Add policy

Add policy New sign-up policy

\* Name  ✓

\* Identity providers  >

Sign-up attributes  >

Application claims  >

Multifactor authentication  >

Page UI customization  >

Create

Search resources

ShettyShetty

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DEPLOYDEMO

Type here to search

9:56 AM  
6/17/2017

Dashboard - Microsoft A X B2C\_1\_sign-up1 - Micros X ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-up policies > B2C\_1\_sign-up1

Sign-up policies deploydemo123.onmicrosoft.com

Search resources

B2C\_1\_sign-up1 SIGN-UP POLICY

Metadata endpoint for this policy ⓘ

deploydemo123.onmicrosoft.com/v2.0/.well-known/openid-configuration?p=B2C\_1\_sign-up1

https://login.microsoftonline.com/deploydemo123.onmicrosoft.com/v2.0/.well-known/openid-configuration?p=B2C\_1\_sign-up1

RUN POLICY SETTINGS

Select application: deploydemo

Select reply url: https://abc.com

ACCESS TOKENS

Run now endpoint ⓘ

https://login.microsoftonline.com/deploydemo123.onmicrosoft.com/oauth2/v2.0/authorize...  
p=B2C\_1\_sign-up1&client\_id=d98c5151-0c4a-4991-a228-  
bd126872dec&nonce=defaultNonce&redirect\_uri=https%3A%2F%2Fabc.com&scope=openid&respon  
se\_type=id\_token&prompt=login

Run now

Settings deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies > **B2C\_1\_sign-up1** Default template
- Sign-in policies >
- All policies >

Type here to search

9:57 AM 6/17/2017

Dashboard - Microsoft A Add policy - Microsoft A

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-in policies > Add policy

Search resources

Sign-in policies

Add policy

New sign-in policy

Name: sign-in1

Identity providers: 0 Selected

Application claims: 0 Selected

Multifactor authentication: Off

Page UI customization: Default

Create

Settings

deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies >
- Sign-in policies > (highlighted)
- All policies >

Type here to search

9:57 AM 6/17/2017

Dashboard - Microsoft A Select identity providers

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure < Settings > Sign-in policies > Add policy > Select identity providers

Sign-in policies  
deploydem0123.onmicrosoft.com

+ Add Upload Policy

No policies found

Add policy  
New sign-in policy

\* Name: sign-in1

\* Identity providers: 0 Selected

Application claims: 0 Selected

Multifactor authentication: Off

Page UI customization: Default

Create OK

Select identity providers

NAME	IDENTITY PROVIDER
<input checked="" type="checkbox"/>	Local Account SignIn Local Account SignIn

Type here to search

9:57 AM 6/17/2017

Dashboard - Microsoft A Select application claims

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure < Settings > Sign-in policies > Add policy > Select application claims

Add policy New sign-in policy

\* Name  ✓

\* Identity providers  >

Application claims  >

Multifactor authentication  >

Page UI customization

Search resources  pmtambe@outlook.co.. DEPLOYDEMO

**Select application claims**

<input checked="" type="checkbox"/>	NAME	CLAIM TYPE	DATA TYPE	DESCRIPTION	ATTRIBUTE TYPE
<input checked="" type="checkbox"/>	City	city	String	The city in which the user is located.	Built-in
<input checked="" type="checkbox"/>	Country/Region	country	String	The country/region in which the user is located.	Built-in
<input checked="" type="checkbox"/>	Display Name	displayName	String	Display Name of the User	Built-in
<input checked="" type="checkbox"/>	Email Addresses	emails	StringCollection	Email addresses of the user.	Built-in
<input checked="" type="checkbox"/>	Given Name	givenName	String	The user's given name (also known as first name).	Built-in
<input checked="" type="checkbox"/>	Identity Provider	identityProvider	String	The social identity provider used by the user to access to your ap...	Built-in
<input checked="" type="checkbox"/>	Job Title	jobTitle	String	The user's job title.	Built-in
<input checked="" type="checkbox"/>	Postal Code	postalCode	String	The postal code of the user's address.	Built-in
<input checked="" type="checkbox"/>	State/Province	state	String	The state or province in user's address.	Built-in
<input checked="" type="checkbox"/>	Street Address	streetAddress	String	The street address where the user is located	Built-in
<input checked="" type="checkbox"/>	Surname	surname	String	The user's surname (also known as family name or last name).	Built-in
<input checked="" type="checkbox"/>	User's Object ID	objectId	String	Object identifier (ID) of the user object in Azure AD.	Built-in

**Create** **OK**

Type here to search 9:57 AM 6/17/2017

Dashboard - Microsoft A X Add policy - Microsoft A X

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-in policies > Add policy

Add policy New sign-in policy

\* Name  ✓

\* Identity providers >

1 Selected

Application claims >

12 Selected

Multifactor authentication >

Off

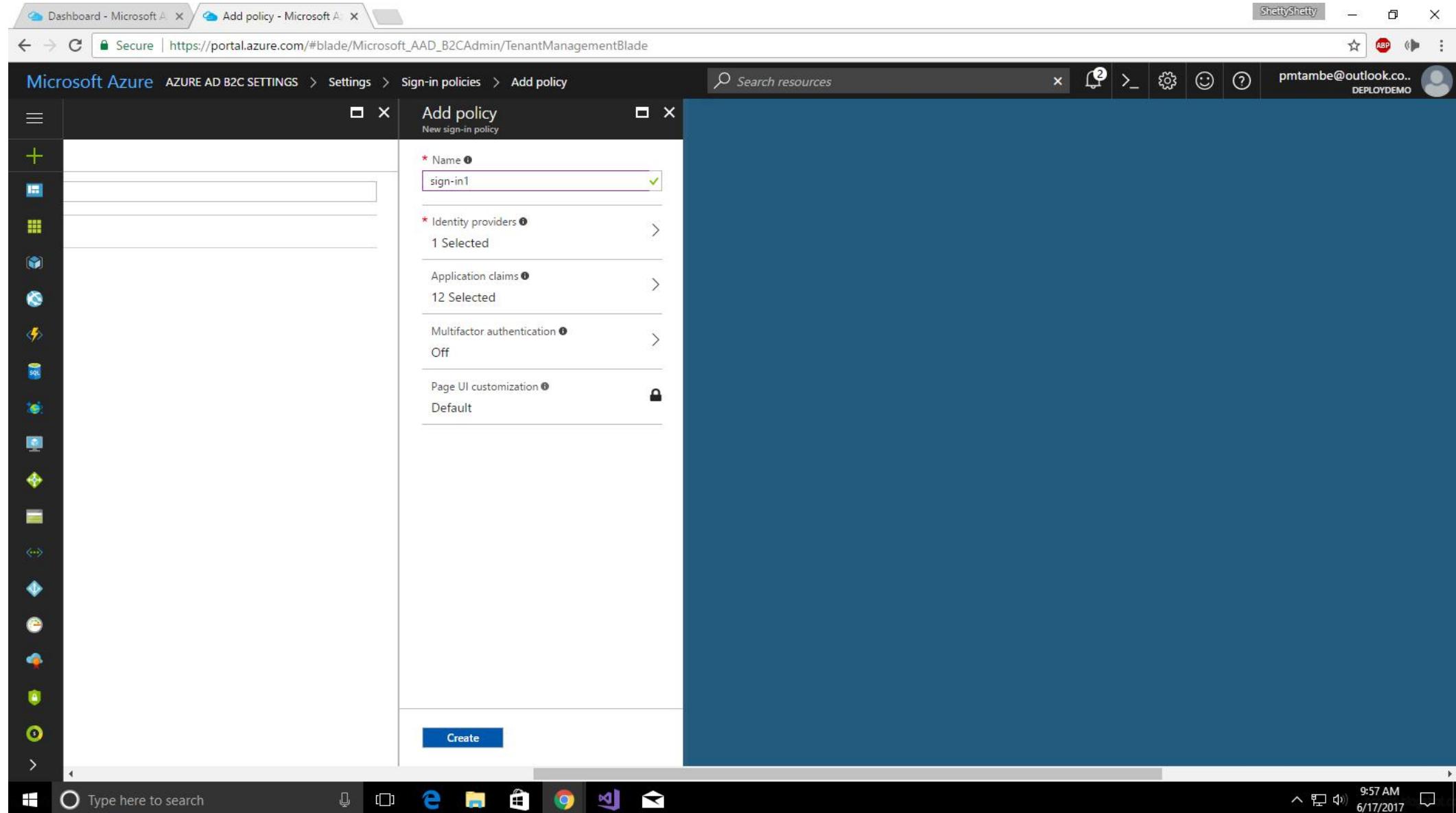
Page UI customization >

Default

Create

Search resources

x ? > \_ gear ? smiley ? pmtambe@outlook.co.. DEPLOYDEMO



Dashboard - Microsoft Azure Sign-in policies - Microsoft Azure

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-in policies

Search resources

ShettyShetty

Settings deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

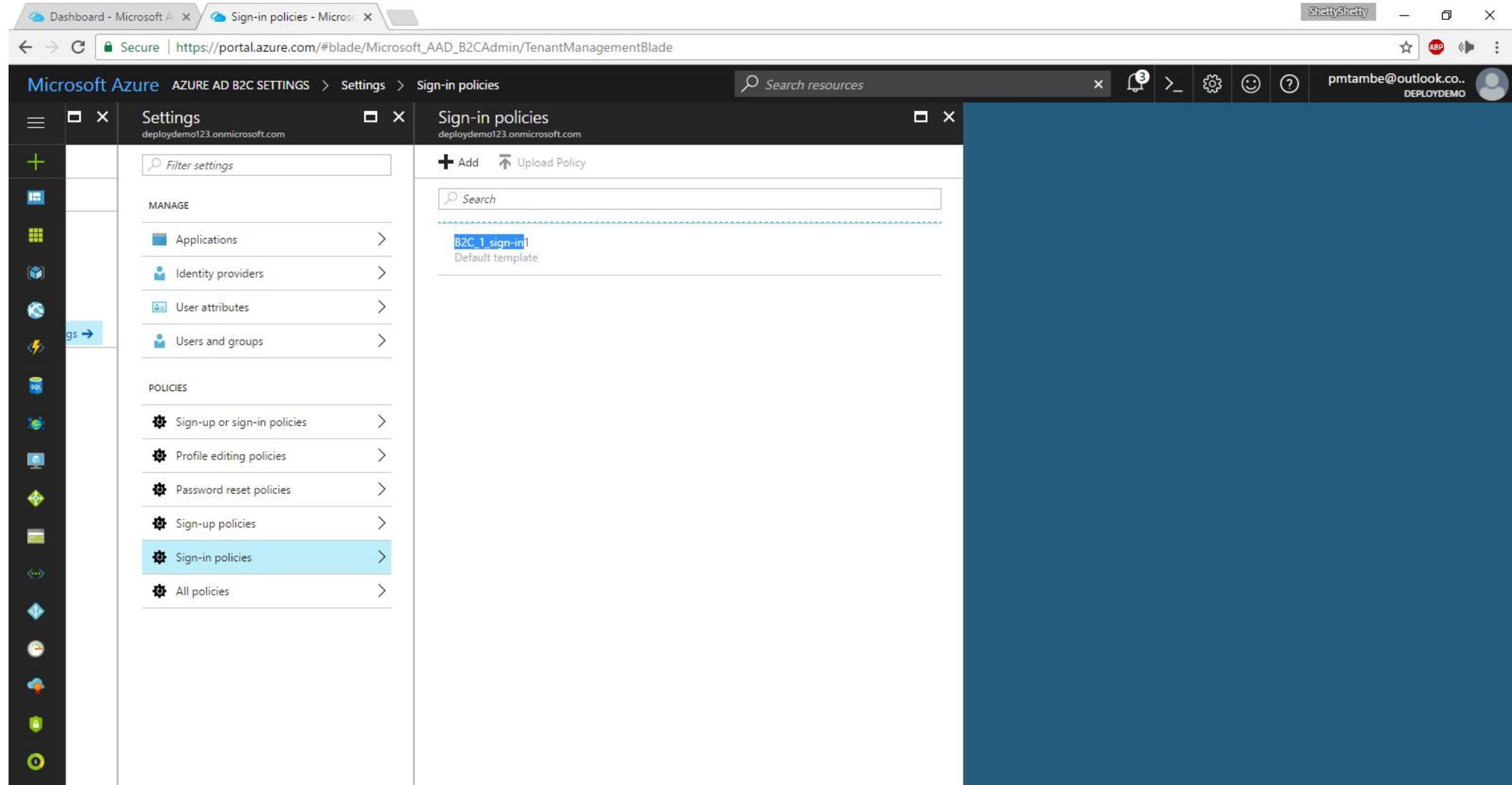
- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies >
- Sign-in policies > **Selected**
- All policies >

Sign-in policies deploydemo123.onmicrosoft.com

+ Add 

Search

B2C\_1\_sign-in1 Default template



Type here to search

9:58 AM 6/17/2017

Dashboard - Microsoft A Add policy - Microsoft A ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Profile editing policies > Add policy

Search resources

Profile editing policies deploydemo123.onmicrosoft.com

+ Add Upload Policy

No policies found

Add policy New profile editing policy

\* Name profile-edit1

\* Identity providers 0 Selected

Profile attributes 0 Selected

Application claims 0 Selected

Page UI customization Default

Create

Settings deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies > **(Selected)**
- Password reset policies >
- Sign-up policies >
- Sign-in policies >
- All policies >

Type here to search

9:58 AM 6/17/2017

Dashboard - Microsoft A Select identity providers

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure < Settings > Profile editing policies > Add policy > Select identity providers

Profile editing policies  
deploydemo123.onmicrosoft.com

+ Add Upload Policy

No policies found

Add policy  
New profile editing policy

\* Name profile-edit1

\* Identity providers 0 Selected

Profile attributes 0 Selected

Application claims 0 Selected

Page UI customization Default

Create OK

Select identity providers

NAME	IDENTITY PROVIDER
<input checked="" type="checkbox"/>	Local Account SignIn Local Account SignIn

Type here to search 9:58 AM 6/17/2017

Windows Start button

Dashboard - Microsoft A Select profile attributes - ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure < Settings > Profile editing policies > Add policy > Select profile attributes

Add policy New profile editing policy

\* Name profile-edit1

\* Identity providers 1 Selected

Profile attributes 0 Selected

Application claims 0 Selected

Page UI customization Default

Search resources

OK

Select profile attributes

NAME	DATA TYPE	DESCRIPTION	ATTRIBUTE TYPE
City	String	The city in which the user is located.	Built-in
Country/Region	String	The country/region in which the user is located.	Built-in
Display Name	String	Display Name of the User	Built-in
Given Name	String	The user's given name (also known as first name).	Built-in
Job Title	String	The user's job title.	Built-in
Postal Code	String	The postal code of the user's address.	Built-in
State/Province	String	The state or province in user's address.	Built-in
Street Address	String	The street address where the user is located	Built-in
Surname	String	The user's surname (also known as family name or last name).	Built-in

Type here to search 9:58 AM 6/17/2017

Dashboard - Microsoft A Select application claims ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

**Microsoft Azure** < Settings > Profile editing policies > Add policy > Select application claims

Add policy New profile editing policy

\* Name profile-edit1

\* Identity providers 1 Selected

Profile attributes 9 Selected

Application claims 0 Selected

Page UI customization Default

Search resources

OK

CREATE

Select application claims

<input checked="" type="checkbox"/>	NAME	CLAIM TYPE	DATA TYPE	DESCRIPTION	ATTRIBUTE TYPE
<input checked="" type="checkbox"/>	City	city	String	The city in which the user is located.	Built-in
<input checked="" type="checkbox"/>	Country/Region	country	String	The country/region in which the user is located.	Built-in
<input checked="" type="checkbox"/>	Display Name	displayName	String	Display Name of the User	Built-in
<input checked="" type="checkbox"/>	Email Addresses	emails	StringCollection	Email addresses of the user.	Built-in
<input checked="" type="checkbox"/>	Given Name	givenName	String	The user's given name (also known as first name).	Built-in
<input checked="" type="checkbox"/>	Identity Provider	identityProvider	String	The social identity provider used by the user to access to your ap...	Built-in
<input checked="" type="checkbox"/>	Job Title	jobTitle	String	The user's job title.	Built-in
<input checked="" type="checkbox"/>	Postal Code	postalCode	String	The postal code of the user's address.	Built-in
<input checked="" type="checkbox"/>	State/Province	state	String	The state or province in user's address.	Built-in
<input checked="" type="checkbox"/>	Street Address	streetAddress	String	The street address where the user is located	Built-in
<input checked="" type="checkbox"/>	Surname	surname	String	The user's surname (also known as family name or last name).	Built-in
<input checked="" type="checkbox"/>	User's Object ID	objectId	String	Object identifier (ID) of the user object in Azure AD.	Built-in

Dashboard - Microsoft A X Add policy - Microsoft A X ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Profile editing policies > Add policy

Add policy New profile editing policy

\* Name profile-edit1

\* Identity providers 1 Selected

Profile attributes 9 Selected

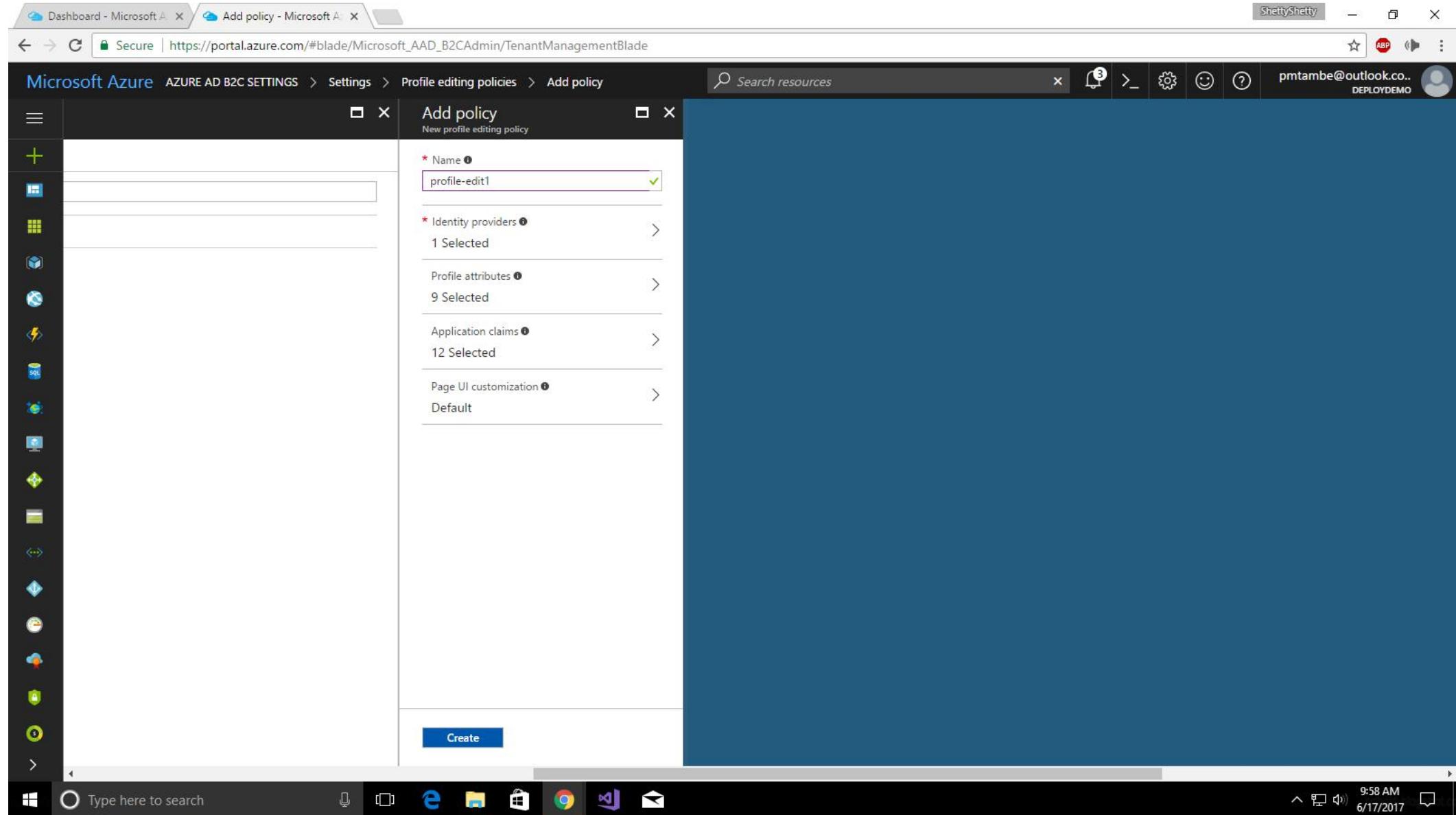
Application claims 12 Selected

Page UI customization Default

Create

Search resources

pmtambe@outlook.co.. DEPLOYDEMO



Dashboard - Microsoft A | Profile editing policies - | ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Profile editing policies

Profile editing policies

Search resources

+ Add Upload Policy

Search

B2C\_1\_profile-edit1  
Default template

Settings

deploydemo123.onmicrosoft.com

Filter settings

MANAGE

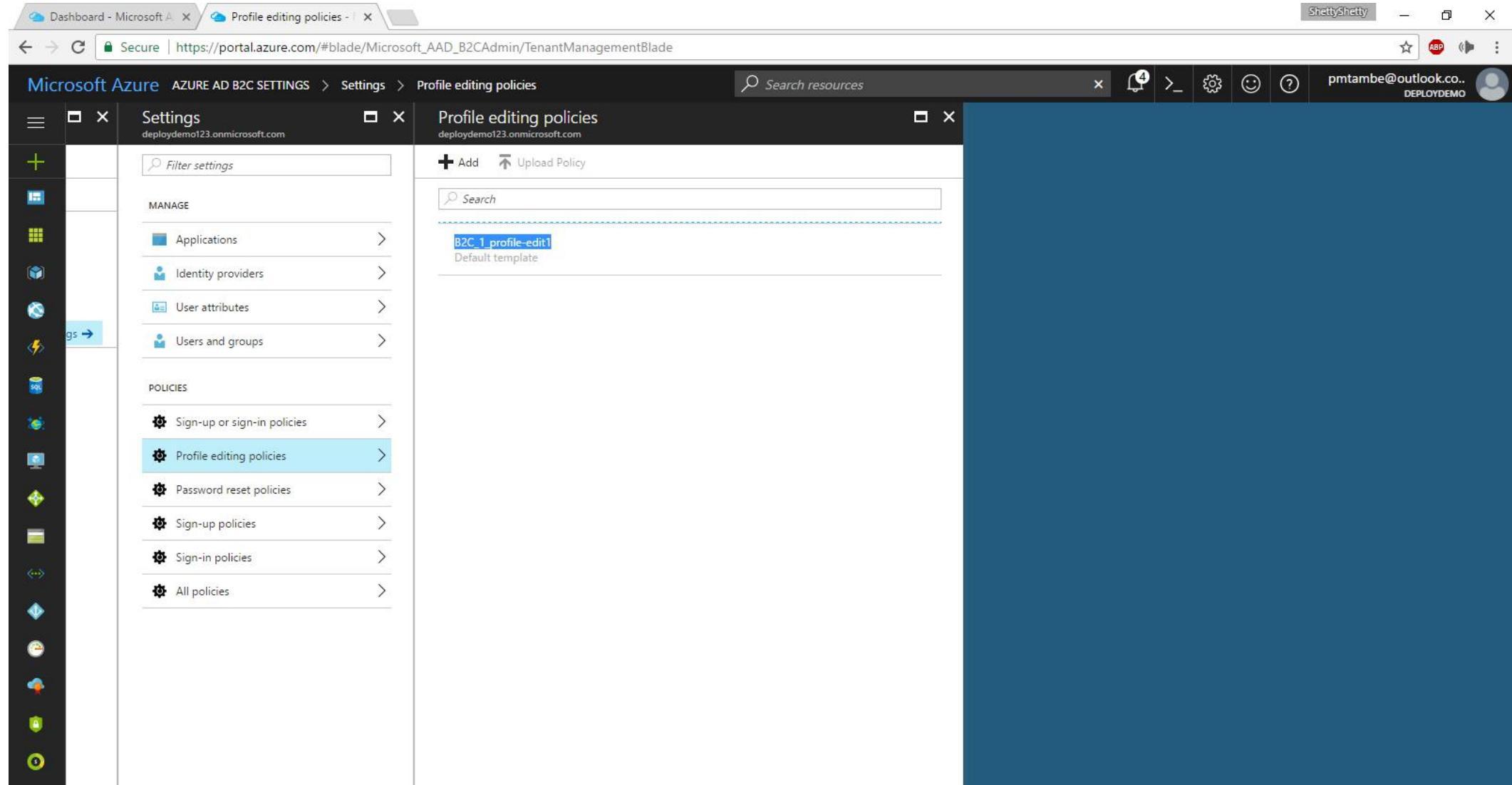
- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies > **(Selected)**
- Password reset policies >
- Sign-up policies >
- Sign-in policies >
- All policies >

Type here to search

9:59 AM 6/17/2017



# Prerequisites

- [VHDs for PI Server and PI BA VMs](#)
- Azure B2C tenant with users and application registered
- Power BI account and Power BI desktop app.
- Firebase notification registered application(optional)
- [ARM script](#)  
[https://portal.azure.com/  
create/Microsoft.Template/uri/https%3A%2F%2Femdeployment.blob.core.windows.net%2Freleases%2Fazureddeploy.json](https://portal.azure.com/create/Microsoft.Template/uri/https%3A%2F%2Femdeployment.blob.core.windows.net%2Freleases%2Fazureddeploy.json)
- [Power BI templates](#)
- [Data Processing utility](#)

Custom deployment - M | Profile editing policies - X

Secure | https://portal.azure.com/#create/Microsoft.Template

ShettyShetty

Microsoft Azure Custom deployment

Custom deployment Deploy from a custom template

TEMPLATE

Customized template 27 resources

Edit template Learn more

BASICS

\* Subscription CSU Pilot

\* Resource group Create new Use existing

\* Location West Central US

SETTINGS

\* Admin Username

\* Admin Password

\* SQL Dns Label Prefix

\* PI Dns Label Prefix

\* WIN Dns Label Prefix

\* Sql Authentication Login

Pin to dashboard

Purchase

Type here to search

10:02 AM 6/17/2017

Custom deployment - M × Profile editing policies - X ShettyShetty

Secure | https://portal.azure.com/#create/Microsoft.Template

Microsoft Azure Custom deployment

Custom deployment Deploy from a custom template

Customized template 27 resources

Edit template Learn more

Search resources

BASICS

- \* Subscription CSU Pilot
- \* Resource group Create new Use existing DeployDemo
- \* Location West Central US

SETTINGS

- \* Admin Username adminuser ✓
- \* Admin Password ..... ✓
- \* SQL Dns Label Prefix sqldd12 ✓
- \* PI Dns Label Prefix pidd12 ✓
- \* WIN Dns Label Prefix windd12 ✓
- \* Sql Authentication Login adminuser ✓
- \* Sql Authentication Password ..... ✓
- \* Domain Name demo.deploy.com

Pin to dashboard

Purchase

Type here to search

10:03 AM 6/17/2017

Custom deployment - M × Profile editing policies - X ShettyShetty — X

Secure | https://portal.azure.com/#create/Microsoft.Template

Microsoft Azure Custom deployment

Custom deployment Deploy from a custom template

Sql Authentication Login: aadminuser

\* Sql Authentication Password: ..... ✓

\* Domain Name: demo.deploy.com ✓

\* Sql Administrator Login: adminuser ✓

\* Sql Administrator Login Password: ..... ✓

\* Sqldatabasename: emdata ✓

Sku Name: S1

Sku Capacity: 1

Hosting Plan Name: AppServPlan

\* Web Site Name: emwebdemodeploy123 ✓

\* Api Server Name: emrestdemodeploy123 ✓

\* B2c Tenant: !

\* B2c Client Id: !

\* B2c Sign Up Policy Id: !

\* B2c Sign In Policy Id: !

\* B2c Edit Profile Policy Id: !

Webhook Storage Type: Queue

Pin to dashboard

Purchase

Search resources

pmtambe@outlook.co... IOTCONNECT

Type here to search

10:06 AM 6/17/2017

Custom deployment - M Profile editing policies - | ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Profile editing policies

AZURE AD B2C SETTINGS  
deploydemo123.onmicrosoft.com

+ Settings

Essentials ^

Domain name: deploydemo123.onmicrosoft.com  
Tenant type: Production-scale tenant  
Subscription status: Registered  
Metered: Yes  
Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a  
Resource name: deploydemo123.onmicrosoft.com

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Search resources

Settings  
deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies > (highlighted)
- Password reset policies >
- Sign-up policies >
- Sign-in policies >
- All policies >

Profile editing policies  
deploydemo123.onmicrosoft.com

+ Add  Upload Policy

Search

B2C\_1\_profile-edit1  
Default template

Type here to search

10:06 AM 6/17/2017



Custom deployment - M Profile editing policies - X ShettyShetty - X

Secure | https://portal.azure.com/#create/Microsoft.Template

Microsoft Azure Custom deployment

Custom deployment Deploy from a custom template

Sql Authentication Password adminuser

Domain Name demo.deploy.com

Sql Administrator Login adminuser

Sql Administrator Login Password

Sql databasename emdata

Sku Name S1

Sku Capacity 1

Hosting Plan Name AppServPlan

Web Site Name emwebdemodeploy123

Api Server Name emrestdemodeploy123

B2c Tenant deploydemo123.onmicrosoft.com

B2c Client Id

B2c Sign Up Policy Id

B2c Sign In Policy Id

B2c Edit Profile Policy Id

Search resources

Pin to dashboard

Purchase

Type here to search

10:06 AM 6/17/2017

Custom deployment - M Properties - Microsoft Az ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

AZURE AD B2C SETTINGS deploydemo123.onmicrosoft.com

+ Settings

Essentials ^

Domain name: deploydemo123.onmicrosoft.com Tenant type: Production-scale tenant  
Metered: Yes Subscription status: Registered  
Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a Resource name: deploydemo123.onmicrosoft.com

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Search resources

Settings deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies >
- Sign-in policies >
- All policies >

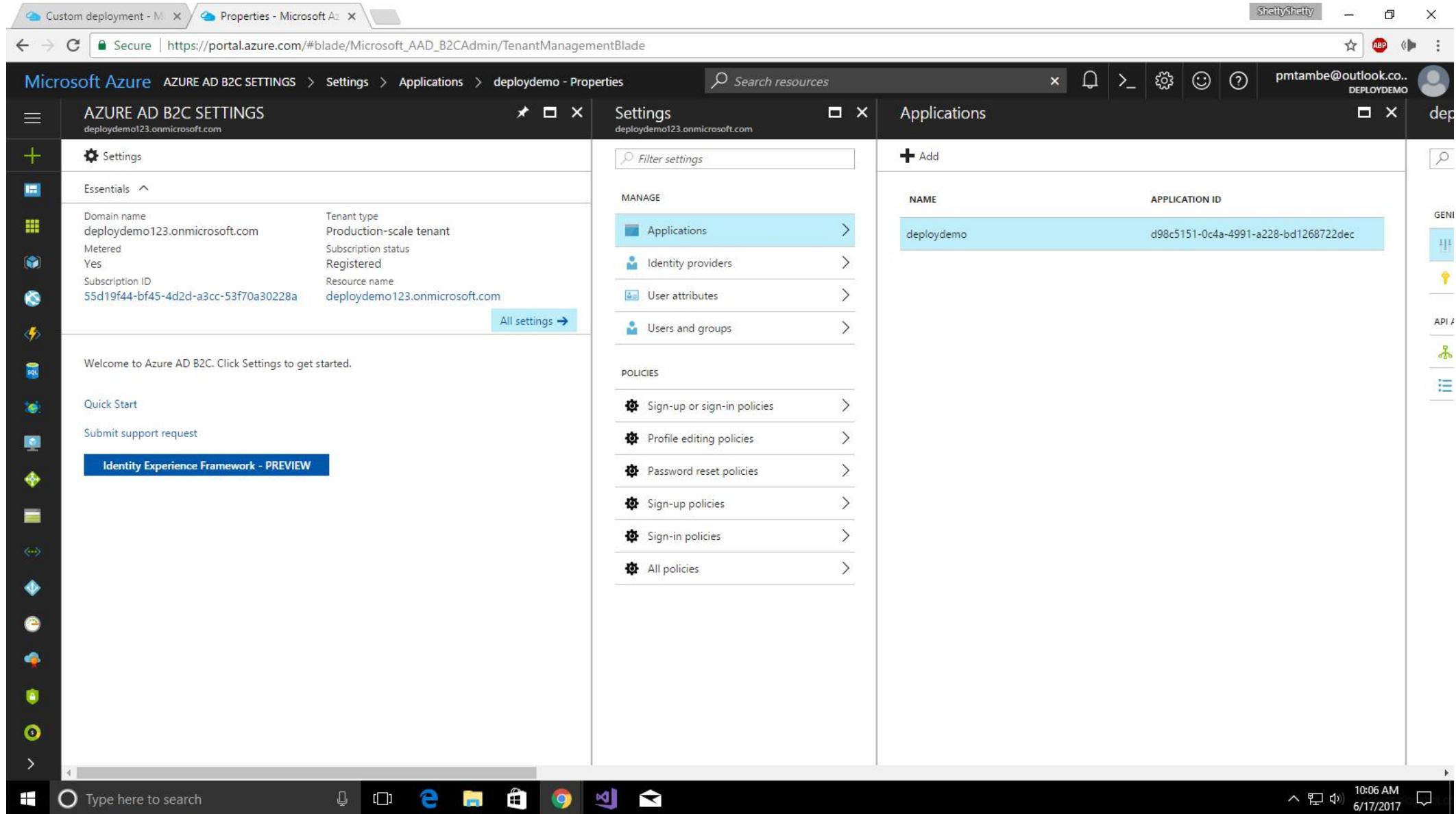
Applications

+ Add

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

GENI API

10:06 AM 6/17/2017



Custom deployment - M Properties - Microsoft Az ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

Search resources

Applications

+ Add

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

deploydemo - Properties

Save Discard Delete

Name: deploydemo

Application ID: d98c5151-0c4a-4991-a228-bd1268722dec

Web App / Web API

Include web app / web API: Yes

Allow implicit flow: Yes

Redirect URIs must all belong to the same domain

Reply URL: https://abc.com

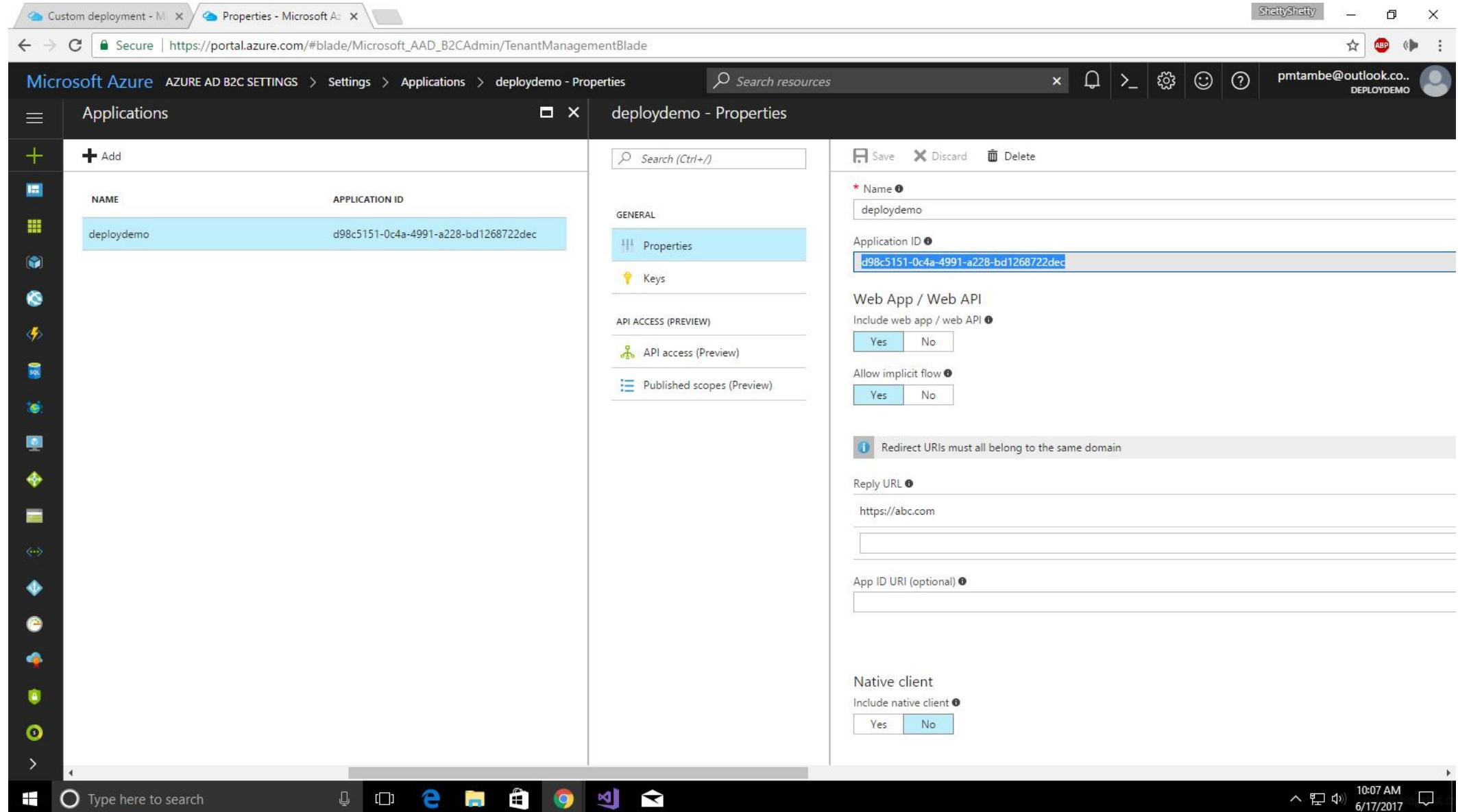
App ID URI (optional)

Native client

Include native client: No

Type here to search

10:07 AM 6/17/2017



Custom deployment - M Properties - Microsoft Az ShettyShetty

Secure | https://portal.azure.com/#create/Microsoft.Template

Microsoft Azure Custom deployment

Custom deployment Deploy from a custom template

Sql Authentication Login: adminuser

\* Sql Authentication Password: ..... ✓

\* Domain Name: demo.deploy.com ✓

\* Sql Administrator Login: adminuser ✓

\* Sql Administrator Login Password: ..... ✓

\* Sqldatabasename: emdata ✓

Sku Name: S1

Sku Capacity: 1

Hosting Plan Name: AppServPlan

\* Web Site Name: emwebdemodeploy123 ✓

\* Api Server Name: emrestdemodeploy123 ✓

\* B2c Tenant: deploydemo123.onmicrosoft.com ✓

\* B2c Client Id: d98c5151-0c4a-4991-a228-bd1268722dec ✓ This field is required

\* B2c Sign Up Policy Id: !

\* B2c Sign In Policy Id: !

\* B2c Edit Profile Policy Id:

Which Storage Type: General Purpose

Pin to dashboard

Purchase

Type here to search

10:07 AM 6/17/2017

Custom deployment - M B2C\_1\_sign-up1 - Micros ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-up policies > B2C\_1\_sign-up1

AZURE AD B2C SETTINGS deploydemo123.onmicrosoft.com

+ Settings

Essentials ^

Domain name: deploydemo123.onmicrosoft.com Tenant type: Production-scale tenant  
Metered: Yes Subscription status: Registered  
Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a Resource name: deploydemo123.onmicrosoft.com

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Search resources

Settings deploydemo123.onmicrosoft.com

Filter settings

MANAGE

- Applications >
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies > **B2C\_1\_sign-up1** Default template
- Sign-in policies >
- All policies >

Sign-up policies deploydemo123.onmicrosoft.com

+ Add Upload Policy

Search

B2C SIGN-

E

Meta http https confi

RUN

Sele dep

Sele http

Run i http https p=82 bd12 onse

5

Type here to search

10:08 AM 6/17/2017

Custom deployment - M B2C\_1\_sign-up1 - Micros ShettyShetty

Secure | https://portal.azure.com/#create/Microsoft.Template

Microsoft Azure Custom deployment

Custom deployment Deploy from a custom template

Sql Authentication Password adminuser

Domain Name demo.deploy.com

Sql Administrator Login adminuser

Sql Administrator Login Password

Sql database name emdata

Sku Name S1

Sku Capacity 1

Hosting Plan Name AppServPlan

Web Site Name emwebdemodeploy123

Api Server Name emrestdemodeploy123

B2c Tenant deploydemo123.onmicrosoft.com

B2c Client Id d98c5151-0c4a-4991-a228-bd1268722dec

B2c Sign Up Policy Id B2C\_1\_sign-up1

B2c Sign In Policy Id

B2c Edit Profile Policy Id

Wabish Storage Type

Pin to dashboard

Purchase

Search resources

pmtambe@outlook.co.. IOTCONNECT

10:08 AM 6/17/2017

Custom deployment - M B2C\_1\_sign-in1 - Microsoft Edge

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Sign-in policies > B2C\_1\_sign-in1

Search resources

AZURE AD B2C SETTINGS deploydemo123.onmicrosoft.com

- + Settings
- Essentials
 

Domain name	deploydemo123.onmicrosoft.com
Metered	Yes
Subscription ID	55d19f44-bf45-4d2d-a3cc-53f70a30228a
Tenant type	Production-scale tenant
Subscription status	Registered
Resource name	deploydemo123.onmicrosoft.com
- All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Settings deploydemo123.onmicrosoft.com

Sign-in policies deploydemo123.onmicrosoft.com

Manage Applications Identity providers User attributes Users and groups

Policies
 

- Sign-up or sign-in policies
- Profile editing policies
- Password reset policies
- Sign-up policies
- Sign-in policies
- All policies

B2C\_1\_sign-in1 Default template

ShettyShetty

pmtambe@outlook.co.. DEPLOYDEMO

B2C SIGN-IN

Meta http https config RUN Select dep Select http A Run i http https p=82 bd12 onse F

skype Anagha Bharadwaj is online

10:08 AM 6/17/2017

Type here to search

Custom deployment - Microsoft Azure | B2C\_1\_sign-in1 - Microsoft Azure

Secure | https://portal.azure.com/#create/Microsoft.Template

Microsoft Azure Custom deployment

Search resources

ShettyShetty

pmtambe@outlook.co.in IOTCONNECT

**Custom deployment**

Deploy from a custom template

Sql Authentication Login ●  ✓

\* Sql Authentication Password ●  ..... ✓

\* Domain Name ●  ✓

\* Sql Administrator Login ●  ✓

\* Sql Administrator Login Password ●  ..... ✓

\* Sqldatabasename ●  ✓

Sku Name ●  ✓

Sku Capacity ●

Hosting Plan Name ●

\* Web Site Name ●  ✓

\* Api Server Name ●  ✓

\* B2c Tenant ●  ✓

\* B2c Client Id ●  ✓

\* B2c Sign Up Policy Id ●  ✓

\* B2c Sign In Policy Id ●  ! This field is required

\* B2c Edit Profile Policy Id ●

Webhook Storage Type:

Pin to dashboard

**Purchase**

Type here to search

10:08 AM 6/17/2017

Custom deployment - M B2C\_1\_profile-edit1 - Mi

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Profile editing policies > B2C\_1\_profile-edit1

Search resources

Settings deploydemo123.onmicrosoft.com

Profile editing policies deploydemo123.onmicrosoft.com

B2C PROFILE

Essentials

Domain name: deploydemo123.onmicrosoft.com  
Tenant type: Production-scale tenant  
Metered: Yes  
Subscription status: Registered  
Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a  
Resource name: deploydemo123.onmicrosoft.com

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Filter settings

MANAGE

- Applications
- Identity providers
- User attributes
- Users and groups

POLICIES

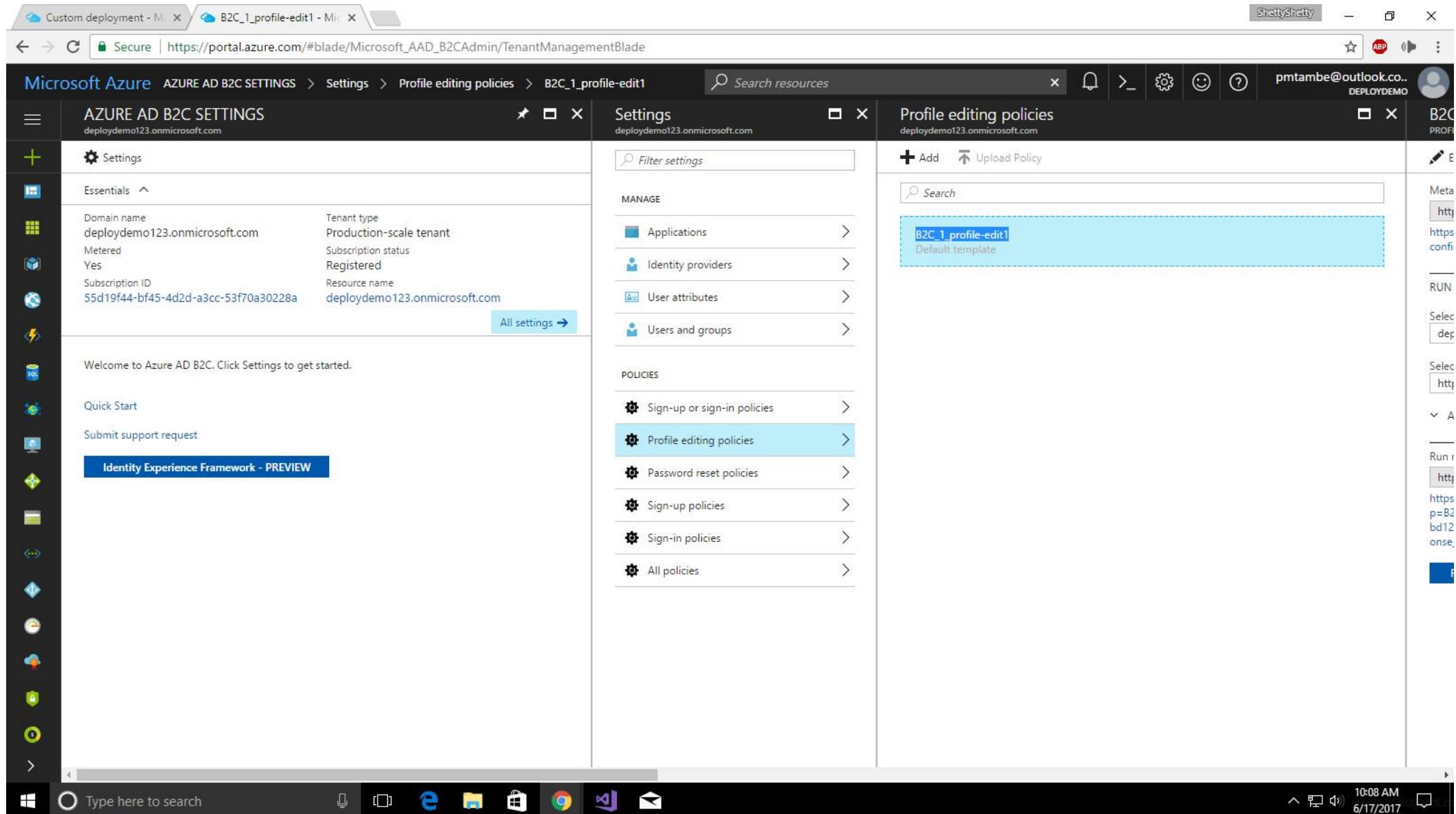
- Sign-up or sign-in policies
- Profile editing policies
- Password reset policies
- Sign-up policies
- Sign-in policies
- All policies

+ Add    Upload Policy

Search

B2C\_1\_profile-edit1  
Default template

Meta http https config RUN Select dep Select http A Run i http https p=82 bd12 onse F



Custom deployment - M B2C\_1\_profile-edit1 - Mi ShettyShetty Secure | https://portal.azure.com/#create/Microsoft.Template

**Microsoft Azure Custom deployment**

Custom deployment Deploy from a custom template

**Hosting Plan Name** AppServPlan

- \* Web Site Name emwebdemodeploy123 ✓
- \* Api Server Name emrestdemodeploy123 ✓
- \* B2c Tenant deploydemo123.onmicrosoft.com ✓
- \* B2c Client Id d98c5151-0c4a-4991-a228-bd1268722dec ✓
- \* B2c Sign Up Policy Id B2C\_1\_sign-up1 ✓
- \* B2c Sign In Policy Id B2C\_1\_sign-in1 ✓
- \* B2c Edit Profile Policy Id B2C\_1\_profile-edit1 ✓
- Webjob Storage Type Standard\_LRS
- \* Workspace Name mydemodeploy
- M Lsku Name S1

**TERMS AND CONDITIONS**

Azure Marketplace Terms | Azure Marketplace

By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated with the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

Pin to dashboard

**Purchase**

Windows Start Type here to search Microphone Task View Edge File Explorer Google Chrome File Explorer Mail 10:09 AM 6/17/2017

Custom deployment - M B2C\_1\_profile-edit1 - Mi ShettyShetty Secure <https://portal.azure.com/#create/Microsoft.Template>

**Microsoft Azure Custom deployment**

Custom deployment Deploy from a custom template

\* Api Server Name  ✓

\* B2c Tenant  ✓

\* B2c Client Id  ✓

\* B2c Sign Up Policy Id  ✓

\* B2c Sign In Policy Id  ✓

\* B2c Edit Profile Policy Id  ✓

Webjob Storage Type

\* Workspace Name  ✓

M Lsku Name

**TERMS AND CONDITIONS**

responsible for reviewing the applicable pricing and legal terms associated with all resources and offerings deployed as part of this template. Prices and associated legal terms for any Marketplace offerings can be found in the [Azure Marketplace](#); both are subject to change at any time prior to deployment.

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I agree to the terms and conditions stated above

Pin to dashboard

**Purchase**

Windows Type here to search Microphone File Explorer Edge File Explorer Windows Store Google Chrome PowerShell Mail

10:09 AM 6/17/2017

Dashboard - Microsoft A   B2C\_1\_profile-edit1 - Microsoft Azure

Secure | https://portal.azure.com/#

Microsoft Azure

Dashboard ... x

All resources ALL SUBSCRIPTIONS

msfirstwebjob WEB APP Running 

pepper-generalbot BOT SERVICE Running 

mobiliya-pizzabot BOT SERVICE Running 

deploydemo123.onmicrosoft.com B2C TENANT 

Deployment in progress... 10:09 AM

Resource groups

App Services

SQL databases

SQL data warehouses

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directo...

Monitor

Security Center

Billing

Help + support

More services >

Search resources x

New 

Dashboard 

Share 

Fullscreen 

Clone 

Delete 

msfirstwebjob WEB APP Running 

pepper-generalbot BOT SERVICE Running 

mobiliya-pizzabot BOT SERVICE Running 

deploydemo123.onmicrosoft.com B2C TENANT 

TempSQLServerVM  Deleted 

pepper-pizzabot BOT SERVICE Running 

mobiliya-generalbot BOT SERVICE Running 

Azure Health MY RESOURCES

Marketplace

Type here to search        

10:09 AM 6/17/2017

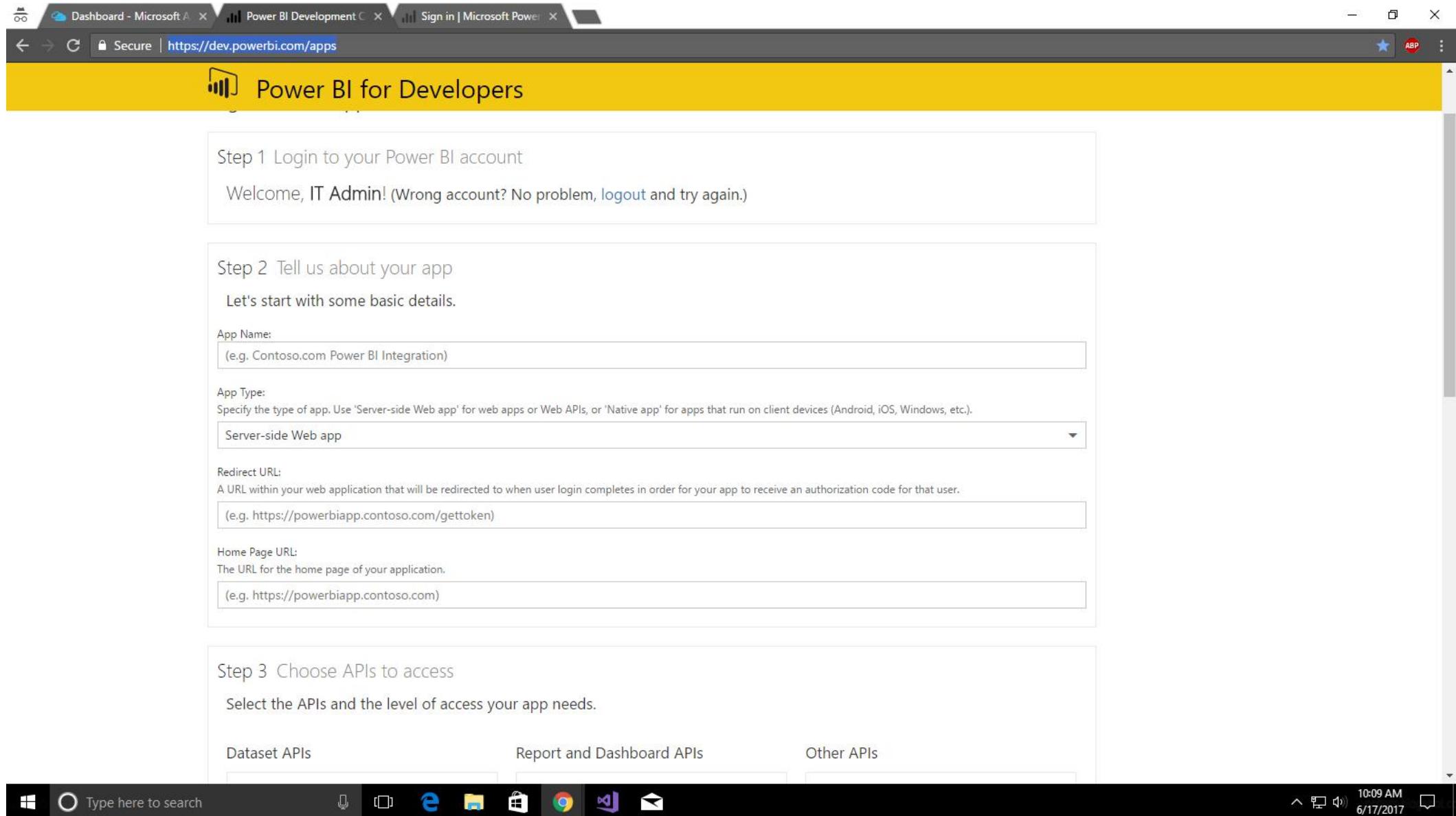
# Next Steps...

Once the deployment is done there is single configuration step to be done in the B2C application created. This step can be done prior to deployment as well i.e. while creating the application in B2C directory if the name of the web app is prefixed(Please note no other web app with the same name should exist in the Azure tenant).

Add an entry in the Redirect URL section of the B2C application in the following format:

`https://<name of the web app>.azurewebsites.net/redirect.html`

# PowerBI Configuration



The screenshot shows the 'Power BI for Developers' configuration interface. It consists of three main sections:

- Step 1 Login to your Power BI account:** Displays a welcome message: "Welcome, IT Admin! (Wrong account? No problem, [logout](#) and try again.)".
- Step 2 Tell us about your app:** A form for basic app details:
  - App Name:** (e.g. Contoso.com Power BI Integration)
  - App Type:** Specify the type of app. Use 'Server-side Web app' for web apps or Web APIs, or 'Native app' for apps that run on client devices (Android, iOS, Windows, etc.).  
Selected: Server-side Web app
  - Redirect URL:** A URL within your web application that will be redirected to when user login completes in order for your app to receive an authorization code for that user.  
(e.g. <https://powerbiapp.contoso.com/gettoken>)
  - Home Page URL:** The URL for the home page of your application.  
(e.g. <https://powerbiapp.contoso.com>)
- Step 3 Choose APIs to access:** A section to select APIs and their level of access. It includes tabs for Dataset APIs, Report and Dashboard APIs, and Other APIs.

Dashboard - Microsoft A X Power BI Development C X Sign in | Microsoft Power X

Secure | https://dev.powerbi.com/apps

## Power BI for Developers

Step 1 Login to your Power BI account

Welcome, IT Admin! (Wrong account? No problem, [logout](#) and try again.)

Step 2 Tell us about your app

Let's start with some basic details.

App Name:  
demodeploy123

App Type:  
Specify the type of app. Use 'Server-side Web app' for web apps or Web APIs, or 'Native app' for apps that run on client devices (Android, iOS, Windows, etc.).  
Server-side Web app

Redirect URL:  
A URL within your web application that will be redirected to when user login completes in order for your app to receive an authorization code for that user.  
https://emwebdemodeploy123.azurewebsites.net

Home Page URL:  
The URL for the home page of your application.  
https://emwebdemodeploy123.azurewebsites.net

Step 3 Choose APIs to access

Select the APIs and the level of access your app needs.

Dataset APIs      Report and Dashboard APIs      Other APIs

Type here to search    10:10 AM  
6/17/2017

Dashboard - Microsoft A X Power BI Development C X Sign in | Microsoft Power X

Secure | https://dev.powerbi.com/apps

## Power BI for Developers

A URL within your web application that will be redirected to when user login completes in order for your app to receive an authorization code for that user.

https://emwebdemodeploy123.azurewebsites.net

Home Page URL:  
The URL for the home page of your application.

https://emwebdemodeploy123.azurewebsites.net

### Step 3 Choose APIs to access

Select the APIs and the level of access your app needs.

Dataset APIs	Report and Dashboard APIs	Other APIs
<input checked="" type="checkbox"/> Read All Datasets	<input checked="" type="checkbox"/> Read All Dashboards	<input checked="" type="checkbox"/> Read All Groups
<input checked="" type="checkbox"/> Read and Write All Datasets	<input checked="" type="checkbox"/> Read All Reports	<input checked="" type="checkbox"/> Create Content
	<input checked="" type="checkbox"/> Read and Write All Reports	

### Step 4 Register your app

Once you've set everything the way you want it, click the button below and we'll register your app. Your client ID and secret (for web apps only) will appear below. Be sure to copy the values into your app. By clicking the Register App button, you have accepted the [terms of use](#).

**Register App**

Client ID:

Windows Start Button Type here to search Microphone Task View Internet Explorer File Explorer Windows Store Google Chrome Mail 10:11 AM 6/17/2017

Dashboard - Microsoft A X Power BI Development C X Sign in | Microsoft Power BI

Secure | https://dev.powerbi.com/apps

## Power BI for Developers

Step 3 Choose APIs to access

Select the APIs and the level of access your app needs.

Dataset APIs	Report and Dashboard APIs	Other APIs
<input checked="" type="checkbox"/> Read All Datasets	<input checked="" type="checkbox"/> Read All Dashboards	<input checked="" type="checkbox"/> Read All Groups
<input checked="" type="checkbox"/> Read and Write All Datasets	<input checked="" type="checkbox"/> Read All Reports	<input checked="" type="checkbox"/> Create Content
	<input checked="" type="checkbox"/> Read and Write All Reports	

Step 4 Register your app

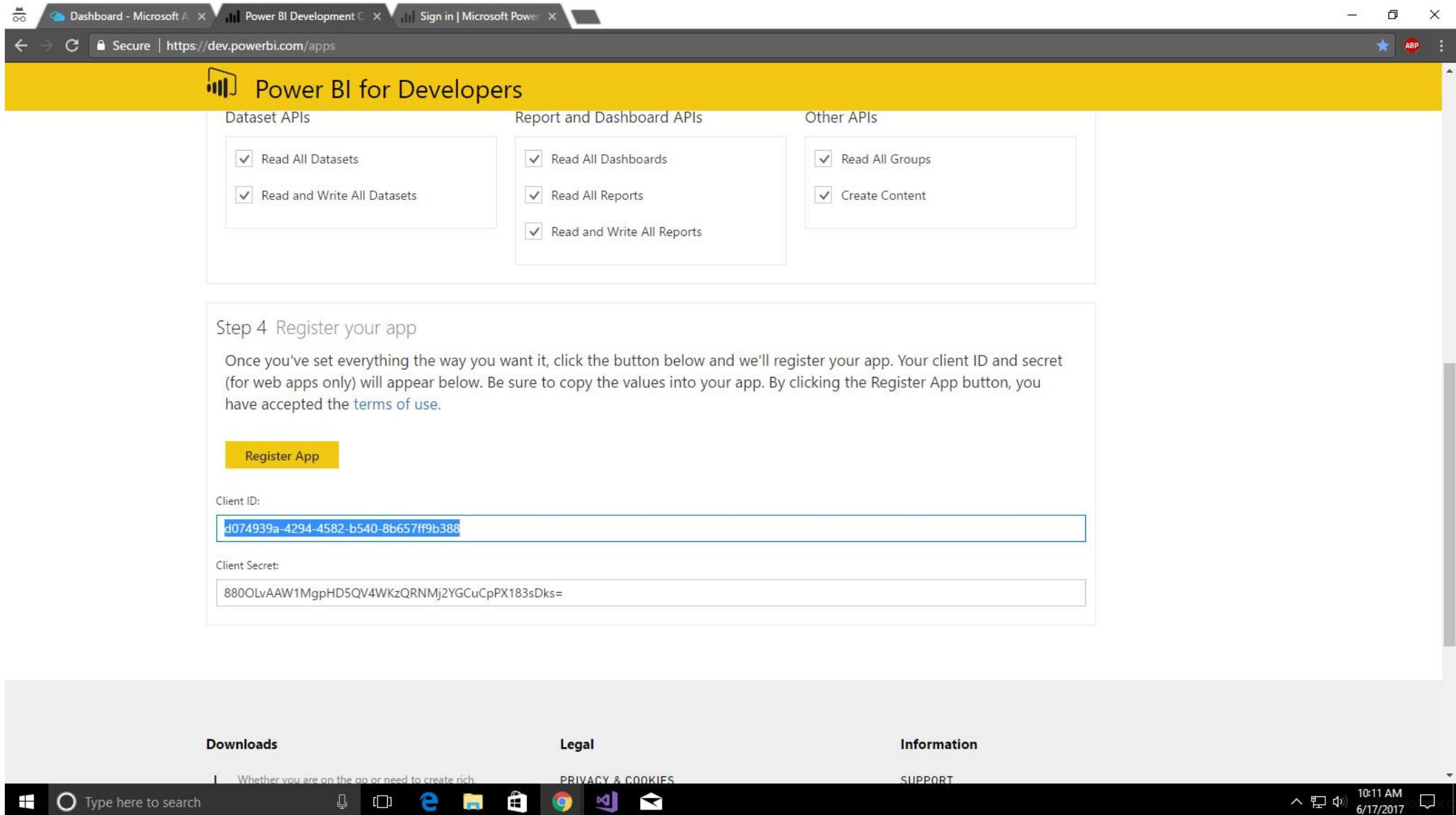
Once you've set everything the way you want it, click the button below and we'll register your app. Your client ID and secret (for web apps only) will appear below. Be sure to copy the values into your app. By clicking the Register App button, you have accepted the [terms of use](#).

**Register App**

Client ID:

Client Secret:





The screenshot shows a web browser window with three tabs: "Dashboard - Microsoft A", "Power BI Development C", and "Sign in | Microsoft Power BI". The main content is titled "Power BI for Developers" and displays three sections: "Dataset APIs", "Report and Dashboard APIs", and "Other APIs", each with several checked checkboxes. Below this, a section titled "Step 4 Register your app" contains instructions and fields for entering a Client ID and Client Secret. A yellow "Register App" button is visible. At the bottom, there are links for "Downloads", "Legal", and "Information", along with a Windows taskbar showing the search bar, Start button, and system tray.

Dataset APIs

- Read All Datasets
- Read and Write All Datasets

Report and Dashboard APIs

- Read All Dashboards
- Read All Reports
- Read and Write All Reports

Other APIs

- Read All Groups
- Create Content

Step 4 Register your app

Once you've set everything the way you want it, click the button below and we'll register your app. Your client ID and secret (for web apps only) will appear below. Be sure to copy the values into your app. By clicking the Register App button, you have accepted the [terms of use](#).

**Register App**

Client ID:  
`d074939a-4294-4582-b540-8b657ff9b388`

Client Secret:  
`880OLvAAW1MgpHD5QV4WKzQRNMj2YGCuCpPX183sDks=`

Downloads Legal Information

Whether you are on the go or need to create rich

PRIVACY & COOKIES SUPPORT

10:11 AM 6/17/2017

Dashboard - Microsoft A X Power BI Development C X V2\_Dashboard - Power B X

Secure | https://portal.azure.com/#dashboard/private/58db0afd-63b2-42d4-8c5b-f064677d5023

Microsoft Azure

Dashboard + New

All resources ALL SUBSCRIPTIONS

Azure Health MY RESOURCES

No resources to display

Create resources

Marketplace Help + support

Sign out

Change password

My permissions

Submit an idea

View my bill

DIRECTORY

AMIPL  
admindomain.onmicrosoft.com

EM admindomain.onmicrosoft.com

EMTest123.onmicrosoft.com

PowerGridAD  
mspowersgrid.onmicrosoft.com

https://portal.azure.com/#

Type here to search

10:14 AM 6/17/2017

Dashboard - Microsoft A X Power BI Development C X V2\_Dashboard - Power B X

Secure | https://portal.azure.com/#dashboard/private/58db0afd-63b2-42d4-8c5b-f064677d5023

Microsoft Azure

Dashboard + New

All resources ALL SUBSCRIPTIONS

Azure Health MY RESOURCES

No resources to display

Create resources

Marketplace Help + support

Recent App Services Virtual machines SQL databases Security Center Subscriptions Azure Active Directo... More services >

Azure Active Directory Monitor Billing Help + support Advisor

https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ActiveDirectoryMenuBlade

Type here to search 10:14 AM 6/17/2017

AMPL - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ActiveDirectoryMenuBlade/Overview

Microsoft Azure amipl

Search resources

itadmin@admindoma... AMPL

amipl Azure Active Directory

Overview Quick start

MANAGE

- Users and groups
- Enterprise applications
- App registrations
- Application proxy
- Licenses
- Azure AD Connect
- Domain names
- Mobility (MDM and MAM)
- Password reset
- Company branding
- User settings
- Properties
- Notifications settings

Classic portal Switch directory Delete directory

Users and groups

Quick tasks

- Add a user
- Add a guest user
- Add a group
- Find a user
- Find a group
- Find an enterprise app

Enterprise applications

USERS SIGN-INS

Sync not enabled

Start a free trial to use this feature.

5:30 AM

Recommended

Sync with Windows Server AD

Sync users and groups from your on-premises directory to your Azure AD

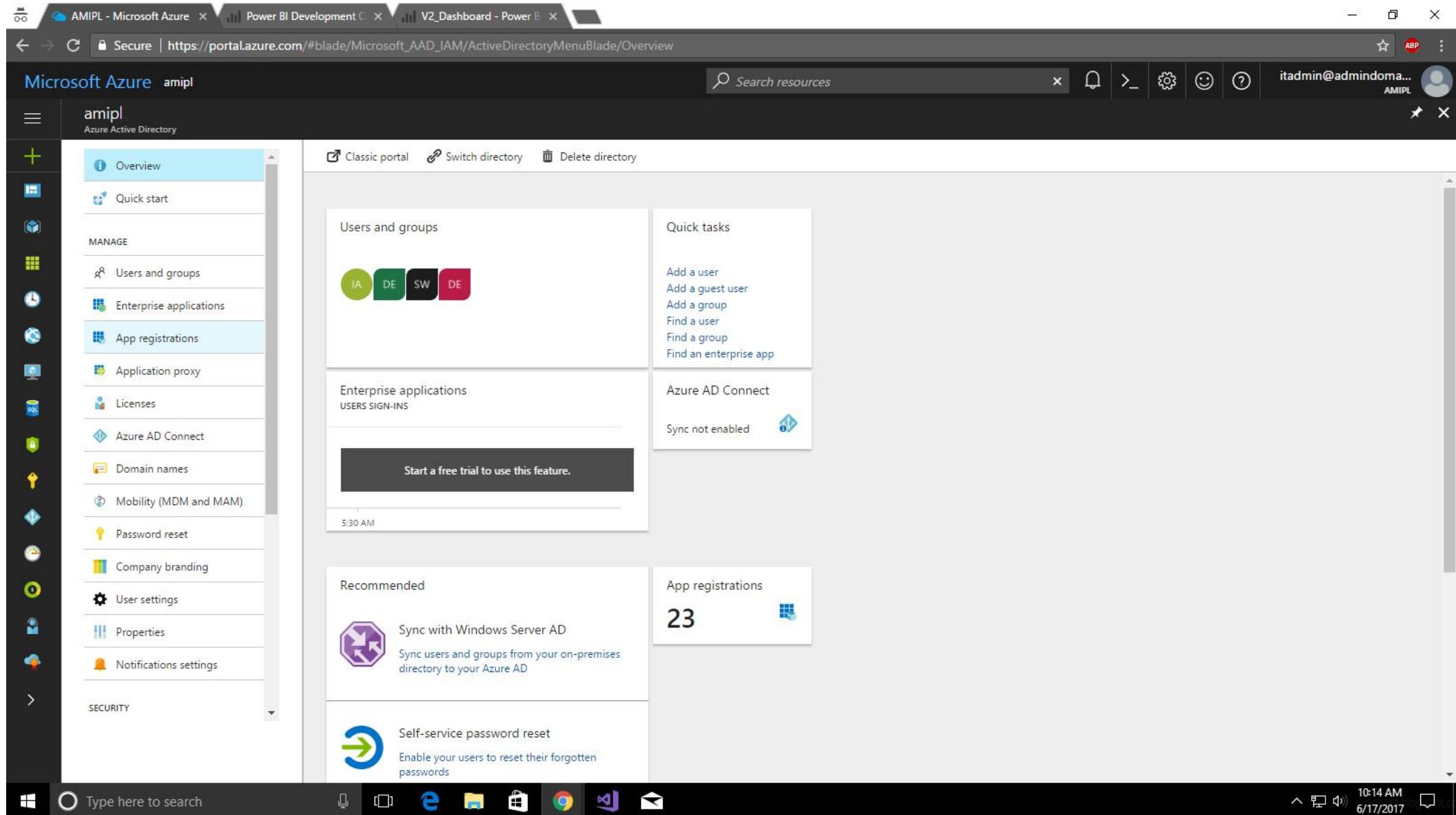
Self-service password reset

Enable your users to reset their forgotten passwords

App registrations 23

Type here to search

10:14 AM 6/17/2017



Settings - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings

Search resources

itadmin@admindomain... AMPL

amipl - App registrations

New application registration Endpoints Troubleshoot

	TryAD	Native	e74a7933-13b1-4120-8a4e-eb27..
PO	Powergrid1	Web app / API	4e439105-607f-4ca1-97d2-8045..
DD	Dashboard Demo	Web app / API	bd80bc8d-14fa-44f5-972b-79f9..
PO	PowerBITest	Web app / API	2f9e1dbb-dada-44e0-b0b3-8d1..
PO	PowerApp	Web app / API	fb880260-715c-48ea-b312-ba6e..
AM	amartestapp	Web app / API	30188e02-cdaf-4058-8e7e-4e20..
PO	Powergrid1	Web app / API	7c82218e-6a3a-4345-a535-f366..
CW	CSU Web App	Web app / API	1fc2925a-99d6-43f1-be04-f551e..
DE	DemoApp	Web app / API	23668fa7-d539-47ce-92a3-cce7..
DE	demodeploy123	Web app / API	d074939a-4294-4582-b540-8b6..
PO	powergridapp	Native	2b7bd62f-2d57-4511-873b-a0e3..
AS	AssetMonitoring	Web app / API	d84a073a-98e5-4e3f-9012-0277..
PO	Power	Native	1989a892-ccea-49ae-a0d7-e9c4..
TR	tryApp	Native	41c63c9e-950f-4665-b73c-c452..
CW	CSU Web App	Web app / API	093cead8-d839-45df-9d5d-c02b..
PO	PowerBITest	Web app / API	de8902e4-5206-4522-b9cd-f415..
MY	myApp	Native	f6fb9fd0-25b7-4fcf-a008-08a89..
PO	PowerBITest	Native	1e9f9100-8096-4727-938b-1fc2..

Type here to search

10:14 AM 6/17/2017

Properties - Microsoft Az X Power BI Development C V2\_Dashboard - Power B X

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Properties

demodeploy123 Registered app

Settings Properties

Search resources

Save Discard

Name: demodeploy123

Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4

Application ID: d074939a-4294-4582-b540-8b657ff9b388

App ID URI: https://admindomain.onmicrosoft.com/c863e...

Logo: DE

Upload new logo

Select a file

Home page URL: https://emwebdemodeploy123.azurewebsites...

Logout URL:

Application type: Web app / API

Multi-tenanted: Yes

All settings →

Essentials

Display name: demodeploy123 Application ID: d074939a-4294-4582-b540-8b657ff9b388

Application type: Web app / API Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4

Home page: https://emwebdemodeploy123.azurewebsites... Managed application in local directory

All settings →

Properties

Filter settings

GENERAL

Properties >

Reply URLs >

Owners >

API ACCESS

Required permissions >

Keys >

TROUBLESHOOTING + SUPPORT

Troubleshoot >

New support request >



Type here to search

10:15 AM  
6/17/2017

Required permissions - Microsoft Azure | Power BI Development - Microsoft Azure | V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Required permissions

Search resources

itadmin@admindoma... AMPL

demodeploy123 Registered app

Settings

Required permissions

Add Grant Permissions

GENERAL

- Properties
- Reply URLs
- Owners

API ACCESS

- Required permissions
- Keys

APPLICATION PERMI... DELEGATED PERMISS...

API	APPLICATION PERMI...	DELEGATED PERMISS...
Power BI Service (Power BI)	0	5
Windows Azure Active Directory (Microsoft.Azure.Acti...	0	1

All settings →

Display name: demodeploy123 Application ID: d074939a-4294-4582-b540-8b657ff9b388

Application type: Web app / API Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4

Home page: https://emwebdemodeploy123.azurewebsites.net Log on to the app to create a local instance

Type here to search

10:15 AM 6/17/2017

Enable Access - Microsoft Edge Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

**Microsoft Azure** < demodeploy123 > Settings > Required permissions > Enable Access

Search resources

Settings

Required permissions

Enable Access

Save Delete

API APPLICATION PERMI... DELEGATED PERMISS...

Power BI Service (Power BI) 0 5

Windows Azure Active Directory (Microsoft.Azure.Acti... 0 1

Note: Before adding permission(s) that require an admin to consent, users will not be able to use the application until an admin grants permissions to the application.

Manage apps that this app creates or owns Yes

Read all hidden memberships Yes

Read and write devices Yes

Read and write directory data Yes

Read and write domains Yes

Read directory data Yes

DELEGATED PERMISSIONS

Read hidden memberships Yes

Sign in and read user profile No

Read all users' basic profiles No

Read all users' full profiles Yes

Read all groups Yes

Read and write all groups Yes

Read and write directory data Yes

Read directory data Yes

Access the directory as the signed-in user No

Save

Type here to search

10:15 AM 6/17/2017

Required permissions - Microsoft Azure Active Directory | Power BI Development | V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Required permissions

Search resources

itadmin@admindoma... AMIPL

Update permissions 10:15 AM  
Updating application Windows Azure Active Directory (Microsoft.Azure.ActiveDirectory)'permissions

Settings

Required permissions

Add Grant Permissions

GENERAL

Properties >

Reply URLs >

Owners >

API ACCESS

Required permissions > (highlighted)

Keys >

APPLICATION PERMIS... DELEGATED PERMIS...

API	APPLICATION PERMIS...	DELEGATED PERMIS...
Power BI Service (Power BI)	0	5
Windows Azure Active Directory (Microsoft.Azure.ActiveDir...	0	5

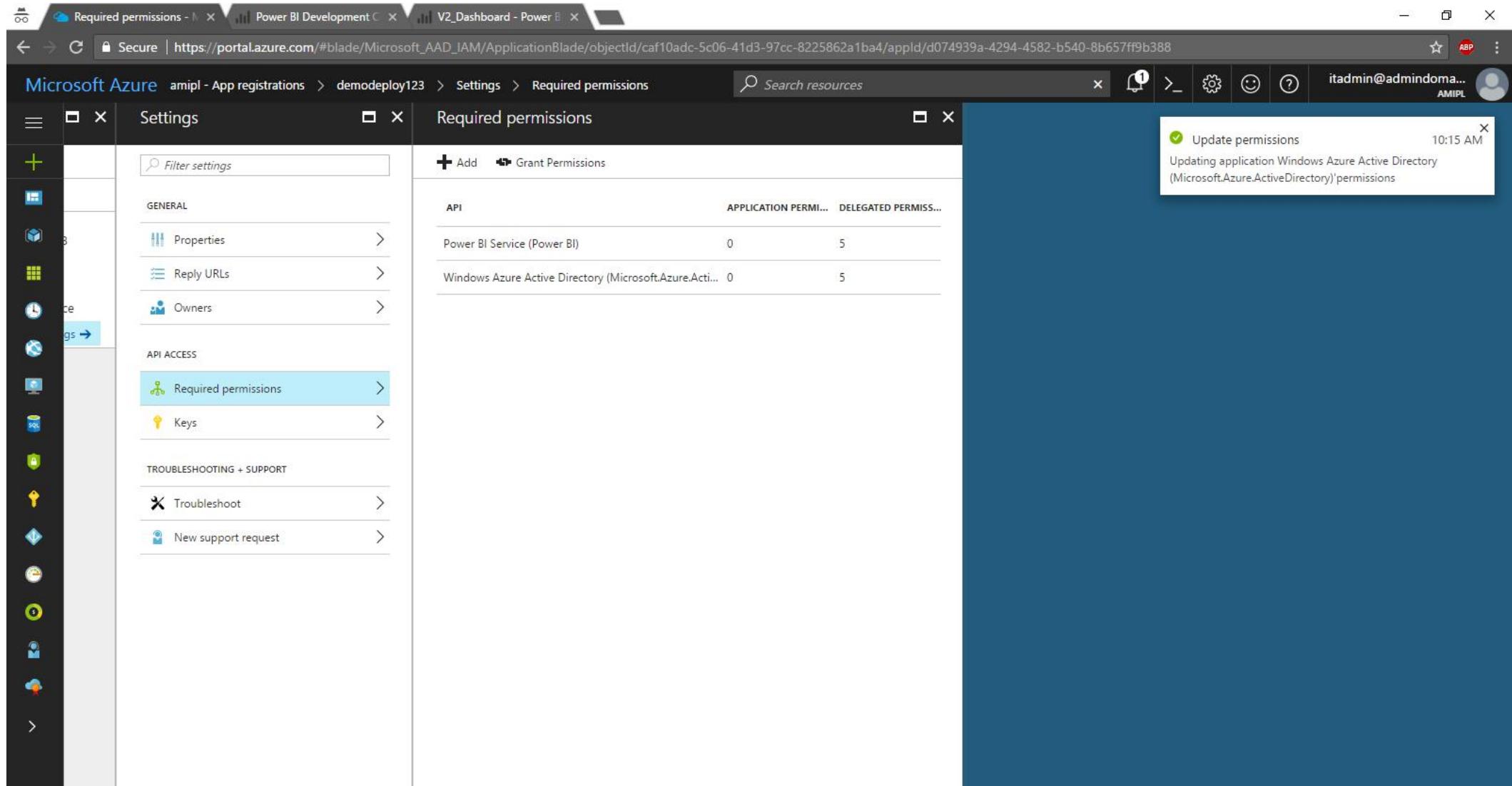
TROUBLESHOOTING + SUPPORT

Troubleshoot >

New support request >

Type here to search

10:15 AM 6/17/2017



Enable Access - Microsoft Edge Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

**Microsoft Azure** < demodeploy123 > Settings > Required permissions > Enable Access

Search resources

itadmin@admindoma... AMPL

**Required permissions**

+ Add Grant Permissions

API	APPLICATION PERMI...	DELEGATED PERMISS...
Power BI Service (Power BI)	0	5
Windows Azure Active Directory (Microsoft.Azure.Acti...	0	5

**Enable Access**

Save Delete

You are adding permission(s) to your application, users will have to consent even if they've already done so previously.

**APPLICATION PERMISSIONS**

No application permissions available.

**DELEGATED PERMISSIONS**

Read and Write all Reports (No)  
 View users Groups (No)  
 View all Groups (No)  
 View all Reports (preview) (No)  
 Create content (preview) (No)  
 View content properties (preview) (No)  
 Read and Write all Datasets (No)  
 View all Datasets (No)  
 View all Dashboards (preview) (No)  
 Add data to a user's dataset (preview) (No)

Type here to search

10:16 AM 6/17/2017

Required permissions - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Required permissions

Search resources

itadmin@admindoma... AMIPL

Update permissions 10:16 AM  
Updating application Power BI Service (Power BI)'permissions

Settings

Required permissions

API APPLICATION PERMI... DELEGATED PERMISS...

API	APPLICATION PERMI...	DELEGATED PERMISS...
Power BI Service (Power BI)	0	8
Windows Azure Active Directory (Microsoft.Azure.Acti...	0	5

Filter settings

GENERAL

- Properties
- Reply URLs
- Owners

API ACCESS

- Required permissions
- Keys

TROUBLESHOOTING + SUPPORT

- Troubleshoot
- New support request

Type here to search

10:16 AM 6/17/2017

Required permissions - Microsoft Azure | Power BI Development - Microsoft Azure | V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Required permissions

Search resources

itadmin@admindoma... AMPL

Settings

Required permissions

Add Grant Permissions

API Grant Permissions APPLICATION PERMI... DELEGATED PERMISS...

Power BI Service (Power BI)	0	8
Windows Azure Active Directory (Microsoft.Azure.Acti...)	0	5

Properties >

Reply URLs >

Owners >

Required permissions > (highlighted)

Keys >

Troubleshoot >

New support request >

Type here to search

10:16 AM 6/17/2017

Required permissions - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Required permissions

Search resources

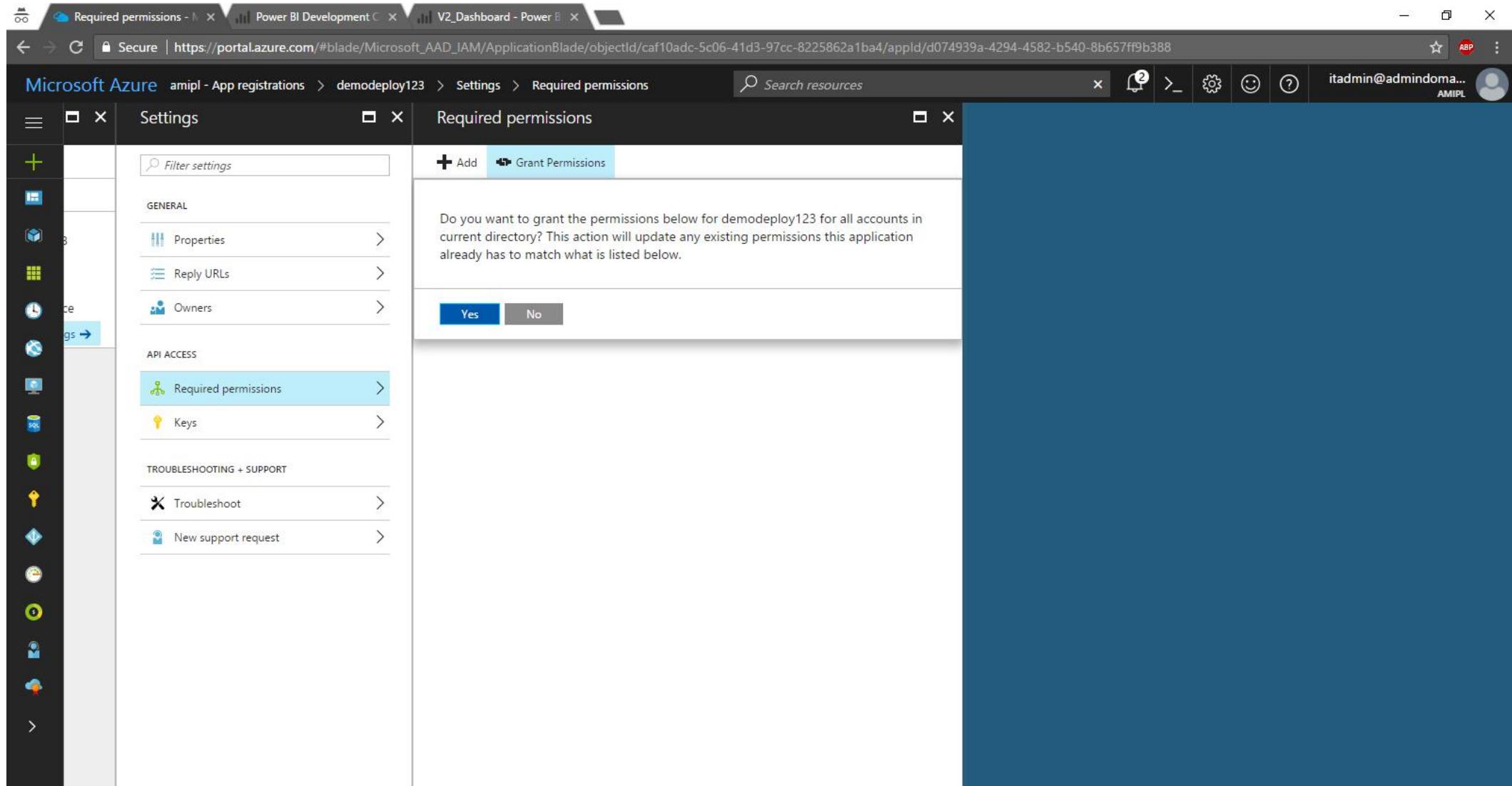
itadmin@admindoma... AMPL

Required permissions

+ Add Grant Permissions

Do you want to grant the permissions below for demodeploy123 for all accounts in current directory? This action will update any existing permissions this application already has to match what is listed below.

Yes No



Type here to search

10:16 AM 6/17/2017

Required permissions - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Required permissions

Search resources

itadmin@admindoma... AMIPL

Grant permissions 10:16 AM  
Successfully granted permissions for application demodeploy123

Settings

Required permissions

+ Add Grant Permissions

API	APPLICATION PERMI...	DELEGATED PERMISS...
Power BI Service (Power BI)	0	8
Windows Azure Active Directory (Microsoft.Azure.Acti...	0	5

Properties >

Reply URLs >

Owners >

Required permissions > Required permissions

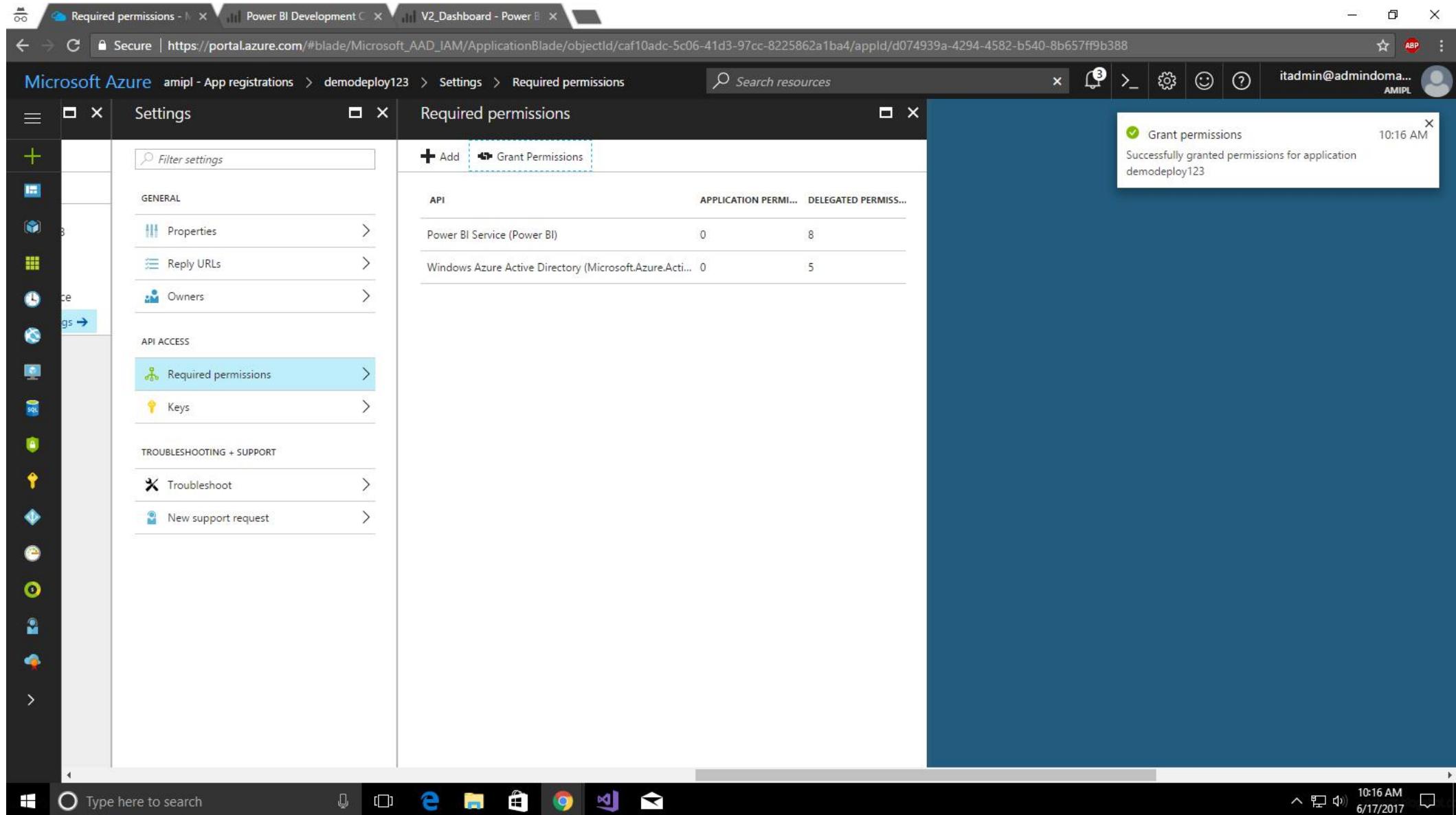
Keys >

Troubleshoot >

New support request >

Type here to search

10:16 AM 6/17/2017



Microsoft.Template - Mic x B2C\_1\_profile-edit1 - Mic x

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/deployments

Microsoft Azure Resource groups > DeployDemo - Deployments > Microsoft.Template

Search resources x

ShettyShetty

Microsoft.Template Deployment

Delete Cancel Refresh Redeploy View template

Operation details

RESOURCE	TYPE	STATUS	TIMESTAMP
TempWinServerVM...	Microsoft.Compute/...	OK	2017-06-17T05:22:2...
emwebdemodeploy...	Microsoft.Web/sites...	OK	2017-06-17T04:41:4...
emwebdemodeploy...	Microsoft.Web/sites...	OK	2017-06-17T04:41:4...
emrestdemodeploy...	Microsoft.Web/sites...	OK	2017-06-17T04:41:4...
emwebdemodeploy...	Microsoft.Web/sites...	OK	2017-06-17T04:41:4...
emrestdemodeploy...	Microsoft.Web/sites...	OK	2017-06-17T04:41:4...
emrestdemodeploy...	Microsoft.Web/sites...	OK	2017-06-17T04:41:4...
emrestdemodeploy...	Microsoft.Web/sites...	OK	2017-06-17T04:41:4...
sqlserveriz3uhyk7pi...	Microsoft.Sql/server...	Created	2017-06-17T04:42:1...
myjobiz3uhyk7pim...	Microsoft.Scheduler...	Created	2017-06-17T04:40:3...
sqlserveriz3uhyk7pi...	Microsoft.Sql/server...	Created	2017-06-17T04:40:3...
myjobiz3uhyk7pimrc	Microsoft.Scheduler...	Created	2017-06-17T04:40:3...
sqlserveriz3uhyk7pi...	Microsoft.Sql/server...	Created	2017-06-17T04:41:0...
TempWinServerVM	Microsoft.Compute/...	OK	2017-06-17T04:44:0...

https://portal.azure.com/#

Type here to search

10:54 AM 6/17/2017

Resource groups - Micro    B2C\_1\_profile-edit1 - Mi

Secure | https://portal.azure.com/#blade/HubsExtension/Resources/resourceType/Microsoft.Resources%2Fsubscriptions%2FresourceGroups

Microsoft Azure Resource groups

IoTConnect

New

Dashboard

All resources

**Resource groups**

Subscriptions: CSU Pilot – Don't see a subscription? Switch directories

Filter by name... All locations No grouping

33 items

NAME	SUBSCRIPTION	LOCATION
asaS	CSU Pilot	East US
AzureFunctions-EastUS	CSU Pilot	East US
CSUPilot	CSU Pilot	East US 2
Default-ApplicationInsights-EastUS	CSU Pilot	East US
Default-MachineLearning-SouthCentralUS	CSU Pilot	South Central US
Default-Networking	CSU Pilot	East US
Default-Storage-SouthCentralUS	CSU Pilot	South Central US
<b>DeployDemo</b>	CSU Pilot	West Central US
EAST-US	CSU Pilot	East US
eastus	CSU Pilot	East US
EmDeployment	CSU Pilot	West Central US
EnergyManagementWebJob	CSU Pilot	East US
EnergyManagementWebJobtesting	CSU Pilot	South Central US
Mobiliya-GeneralBot	CSU Pilot	South Central US

More services >

Type here to search

10:55 AM 6/17/2017

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/overview

**Microsoft Azure Resource groups > DeployDemo**

**DeployDemo** Resource group

**Search resources**

**Add** **Columns** **Delete** **Refresh** **Move**

**Essentials**

Subscription name (change) CSU Pilot Deployments 2 Succeeded

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

**Filter by name...** **All types** **All locations** **No grouping**

**33 items**

<b>NAME</b>	<b>TYPE</b>	<b>LOCATION</b>
AppServPlan	App Service plan	West Central US
deploydemo123.onmicrosoft.com	B2C Tenant	unitedstates
emrestdemodeploy123	App Service	West Central US
emwebdemodeploy123	App Service	West Central US
iz3uhyk7pimrcpivm	Storage account	West Central US
iz3uhyk7pimresqlvm	Storage account	West Central US
iz3uhyk7pimrcwinvm	Storage account	West Central US
mlstriz3uhyk7pimrc	Storage account	West Central US
mydemodeploy	Machine Learning workspace	West Central US
mydemodeployPlan	Machine Learning web servic...	West Central US
myjobiz3uhyk7pimrc	Scheduler Job Collection	West Central US

New Refresh

Dashboard Don't see any resources

All resources

Resource groups

App Services

SQL databases

SQL data warehouses

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directo...

Monitor

Security Center

Billing

Help + support

More services >

Type here to search

10:55 AM 6/17/2017

DeployDemo - Microsoft < Properties - Microsoft Az

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/overview

Microsoft Azure Resource groups > DeployDemo

Resource groups  
IoTConnect

+ Add Columns Refresh

Subscriptions: CSU Pilot – Don't see a subscription? Switch directories

Filter by name...

33 items

NAME

- Default-ApplicationInsights...
- Default-MachineLearning-S...
- Default-Networking
- Default-Storage-SouthCent...
- DeployDemo
- EAST-US
- eastus
- EmDeployment
- EnergyManagementWebJob
- EnergyManagementWebJo...
- Mobiliya-GeneralBot
- Mobiliya-HealthBot
- Mobiliya-PizzaBot

DeployDemo Resource group

Search (Ctrl+ /)

Overview

Activity log

Access control (IAM)

Tags

SETTINGS

Quickstart

Resource costs

Deployments

Policies

Properties

Locks

Automation script

MONITORING

Metrics

Alert rules

Diagnostics logs

Add Columns Delete Refresh Move

Subscription name (change)  
CSU Pilot

Subscription ID  
55d19f44-bf45-4d2d-a3cc-53f70a30228a

Deployments  
2 Succeeded

Filter by name... All types All locations No grouping

33 items

NAME	TYPE	LOCATION
AppServPlan	App Service plan	West Central US
deploydemo123.onmicrosoft.com	B2C Tenant	unitedstates
emrestdemodeploy123	App Service	West Central US
<b>emwebdemodeploy123</b>	App Service	West Central US
iz3uhyk7pimrcpivm	Storage account	West Central US
iz3uhyk7pimrcsqlvm	Storage account	West Central US
iz3uhyk7pimrcwinvm	Storage account	West Central US
mlstriz3uhyk7pimrc	Storage account	West Central US
mydemodeploy	Machine Learning workspace	West Central US
mydemodeployPlan	Machine Learning web service plan	West Central US
myjobiz3uhyk7pimrc	Scheduler Job Collection	West Cen

Anagha Bharadwaj is online

10:58 AM 6/17/2017

Dashboard - Microsoft A   Properties - Microsoft Az

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Web/sites/emwebdemodeploy123/appServices

ShettyShetty

**Microsoft Azure** Resource groups > DeployDemo > emwebdemodeploy123

Search resources

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

**Essentials**

Resource group (change) DeployDemo  
 Status Running  
 Location West Central US  
 Subscription (change) CSU Pilot  
 Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

URL http://emwebdemodeploy123.azurewebsites.net  
 App Service plan/pricing tier AppServicePlan (Standard: 1 Small)  
 FTP/deployment username emwebdemodeploy123surabhshah  
 FTP hostname ftp://waws-prod-cy4-001.ftp.azurewebsites.windows.net  
 FTPS hostname https://waws-prod-cy4-001.ftp.azurewebsites.windows.net

Http 5xx  
 Data In  
 Data Out  
 Requests  
 Average Response Time

Type here to search

10:58 AM 6/17/2017

Dashboard - Microsoft A   Properties - Microsoft Az

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Web/sites/emwebdemodeploy123/appServices

ShettyShetty

**Microsoft Azure** Resource groups > DeployDemo > emwebdemodeploy123

Search resources

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

emwebdemodeploy123 App Service

Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Resource group (change) DeployDemo

Status Running

Location West Central US

Subscription (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

URL http://emwebdemodeploy123.azurewebsites.net

App Service plan/pricing tier AppServicePlan (Standard: 1 Small)

FTP/deployment username emwebdemodeploy123\surabhshah

FTP hostname ftp://waws-prod-cy4-001.ftp.azurewebsites.windows.net

FTPS hostname https://waws-prod-cy4-001.ftp.azurewebsites.windows.net

Click to copy

DEPLOYMENT

Quickstart Deployment credentials Deployment slots Deployment options Continuous Delivery (Preview)

SETTINGS

Application settings Authentication / Authorization Backups Custom domains SSL certificates

Http 5xx

Data In

Data Out

Requests

Average Response Time

10 AM 10:15 AM 10:30 AM 10:45 AM

100  
80  
60  
40  
20  
0

10 AM 10:15 AM 10:30 AM 10:45 AM

6kB  
5kB  
4kB  
3kB  
2kB  
1kB  
0kB

10 AM 10:15 AM 10:30 AM 10:45 AM

30kB  
20kB  
10kB  
0kB

10 AM 10:15 AM 10:30 AM 10:45 AM

HTTP SERVER ERRORS

DATA IN

DATA OUT

10 AM 10:15 AM 10:30 AM 10:45 AM

10

4s

Type here to search

10:58 AM 6/17/2017

Dashboard - Microsoft A   Properties - Microsoft Az

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Web/sites/emwebdemodeploy123/appServices

Microsoft Azure Resource groups > DeployDemo > emwebdemodeploy123

Search resources

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

Sign out pmtambe@outlook.co... IOTCONNECT

emwebdemodeploy123 App Service

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Resource group (change) DeployDemo

Status Running

Location West Central US

Subscription (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

URL http://emwebdemodeploy123.azurewebsites.net

App Service plan/pricing tier AppServicePlan (Standard: 1 Small)

FTP/deployment username emwebdemodeploy123surabhshah

FTP hostname ftp://waws-prod-cy4-001.ftp.azurewebsites.windows.net

FTPS hostname https://waws-prod-cy4-001.ftp.azurewebsites.windows.net

Essentials

HTTP 5xx

Data In

Data Out

Requests

Average Response Time

deploydemo  
deploydemo123.onmicrosoft....

doubledeckerdoglive (Default D  
doubledeckerdoglive.onmicrosoft...

ADnacer ADtn.onmicrosoft.com

CSUB2C CSUB2C.onmicrosoft.com

PowerGridAD mspowergrid.onmicrosoft.com

Répertoire par défaut tracerhotmail.onmicrosoft.co...

SevitalB2C SevitalB2C.onmicrosoft.com

cevitaldevb2c  
cevitaldevb2c.onmicrosoft.co...

https://portal.azure.com

Type here to search

10:59 AM 6/17/2017

Dashboard - Microsoft A Properties - Microsoft Az ShettyShetty

Secure | https://portal.azure.com/#dashboard/private/197416db-a911-4508-af01-5a2970d0d00f

Microsoft Azure

Dashboard + New

All resources ALL SUBSCRIPTIONS

No resources to display

Try changing your filters if you don't see what you're looking for. Learn more

Create resources

Azure Health MY RESOURCES

Marketplace

Quickstart tutorials

Windows Virtual Machines Provision Windows Server, SQL Server, SharePoint VMs

Linux Virtual Machines Provision Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs

App Service Create Web Apps using .NET, Java, Node.js, Python, PHP

Functions Process events with a serverless code architecture

SQL Database Managed relational SQL Database as a Service

Search b2c

Azure AD B2C

Search b2c in all resources

Search b2c in resource groups +

Help us improve search!

https://portal.azure.com

Type here to search 10:59 AM 6/17/2017

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications

AZURE AD B2C SETTINGS  
deploydemo123.onmicrosoft.com

Essentials

Domain name: deploydemo123.onmicrosoft.com  
Tenant type: Production-scale tenant  
Metered: Yes  
Subscription status: Registered  
Subscription ID: 55d19f44-bf45-4d2d-a3cc-53f70a30228a  
Resource name: deploydemo123.onmicrosoft.com

All settings →

Welcome to Azure AD B2C. Click Settings to get started.

Quick Start

Submit support request

Identity Experience Framework - PREVIEW

Settings

Applications

Filter settings

MANAGE

- Applications > (highlighted with red box)
- Identity providers >
- User attributes >
- Users and groups >

POLICIES

- Sign-up or sign-in policies >
- Profile editing policies >
- Password reset policies >
- Sign-up policies >
- Sign-in policies >
- All policies >

Applications

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

+ Add

ShettyShetty 11:00 AM 6/17/2017

Type here to search

Windows icon

Microphone icon

Copy icon

Edge icon

File icon

Windows icon

Chrome icon

Power icon

Mail icon

Properties - Microsoft Az x Properties - Microsoft Az x

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

b2c

Applications

+ Add

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

deploydemo - Properties

Search (Ctrl+ /)

Save Discard Delete

\* Name

Application

Web App

Include web

Allow implicit grant

Reply URL

Native client

App ID URI (optional)

Properties

Keys

API ACCESS (PREVIEW)

API access (Preview)

Published scopes (Preview)

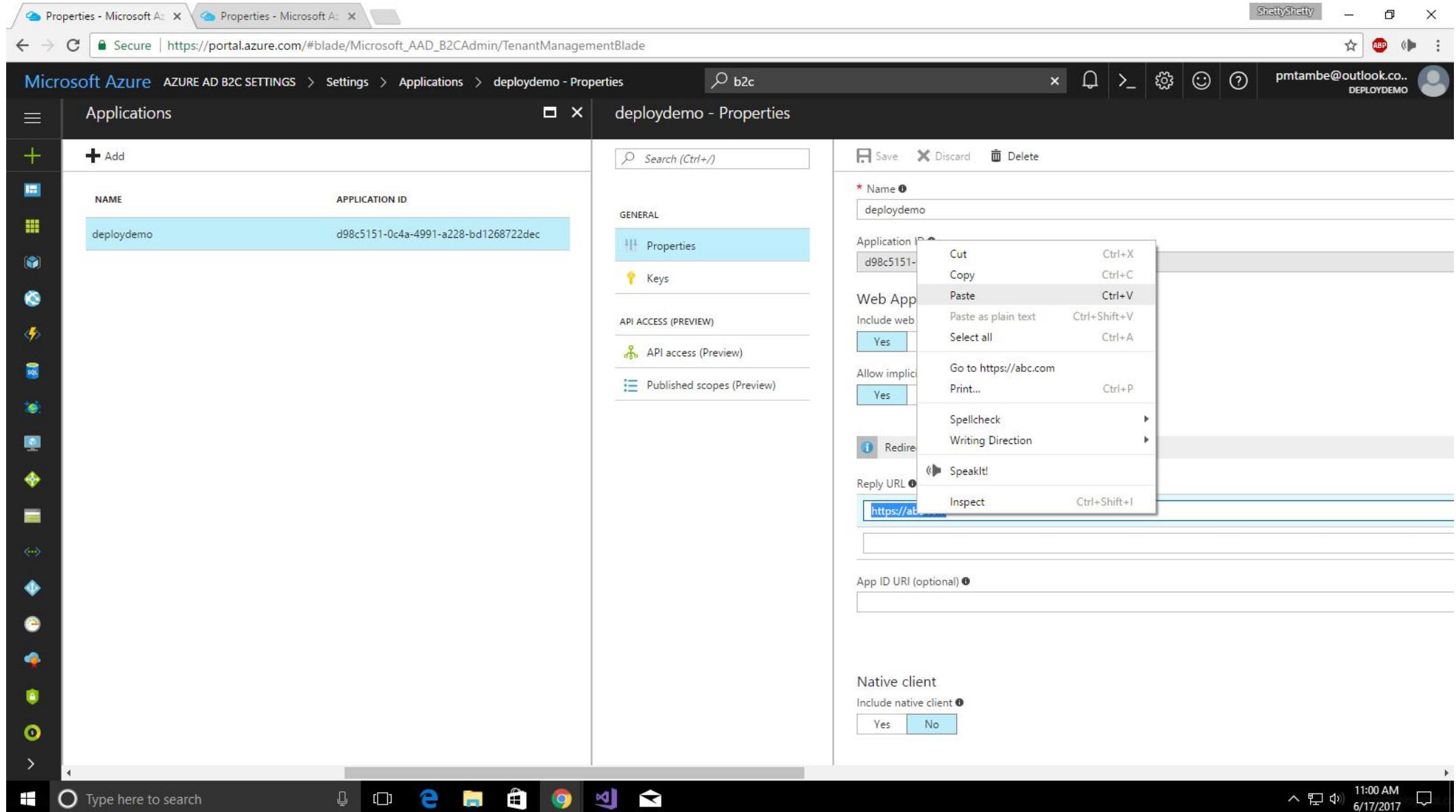
Cut Ctrl+X  
Copy Ctrl+C  
Paste Ctrl+V  
Paste as plain text Ctrl+Shift+V  
Select all Ctrl+A  
Go to https://abc.com  
Print... Ctrl+P  
Spellcheck  
Writing Direction  
SpeakIt!  
Inspect Ctrl+Shift+I

ShettyShetty

pmtambe@outlook.co..  
DEPLOYDEMO

Type here to search

11:00 AM 6/17/2017



Dashboard - Microsoft A Properties - Microsoft A

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

Search resources

Applications

+ Add

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

deploydemo - Properties

Save Discard Delete

\* Name

Application ID

Web App / Web API

Include web app / web API  Yes  No

Allow implicit flow  Yes  No

Redirect URIs must all belong to the same domain

Reply URL

App ID URI (optional)

Native client

Include native client  Yes  No

11:02 AM 6/17/2017

Type here to search

Windows Start button

Microphone icon

File icon

Edge icon

File Explorer icon

Windows icon

Google Chrome icon

Power icon

Mail icon

Dashboard - Microsoft A Properties - Microsoft Az

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

Search resources

Applications

+ Add

NAME	APPLICATION ID
deploydemo	d98c5151-0c4a-4991-a228-bd1268722dec

deploydemo - Properties

Save Discard Delete

GENERAL

\* Name

Application ID

Web App / Web API

Include web app / web API  Yes  No

Allow implicit flow  Yes  No

Redirect URIs must all belong to the same domain

Reply URL

App ID URI (optional)

Native client

Include native client  Yes  No

Type here to search

11:02 AM 6/17/2017

Dashboard - Microsoft A Secure Settings - Microsoft Azure https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings

SETTINGS

microsoft.com

+ Tenant type Production-scale tenant

microsoft.com Subscription status Registered

d-a3cc-53f70a30228a Resource name deploydemo123.onmicrosoft.com

All settings →

B2C. Click Settings to get started.

test

Microsoft Framework - PREVIEW

MANAGE

Filter settings

Applications

Identity providers

User attributes

Users and groups

POLICIES

Sign-up or sign-in policies

Profile editing policies

Password reset policies

Sign-up policies

Sign-in policies

All policies

Search resources

ShettyShetty

pmtambe@outlook.co.. DEPLOYDEMO

Sign out

Change password

My permissions

Submit an idea

View my bill

DIRECTORY

deploydemo

deploydemo123.onmicrosoft....

ADnacer

ADtn.onmicrosoft.com

CSUB2C

CSUB2C.onmicrosoft.com

IoTConnect

iotconnect.onmicrosoft.com

PowerGridAD

mspowersgrid.onmicrosoft.com

Répertoire par défaut

tracerhotmail.onmicrosoft.co...

https://portal.azure.com

Type here to search

11:03 AM 6/17/2017

# PI Server Configuration - TEMPWINSERVERVM

Resource groups - Micro   Settings - Microsoft Azure

Secure | https://portal.azure.com/#blade/HubsExtension/Resources/resourceType/Microsoft.Resources%2Fsubscriptions%2FresourceGroups

Microsoft Azure Resource groups

IoTConnect

**New**   **Add**   **Columns**   **Refresh**

Subscriptions: CSU Pilot – Don't see a subscription? [Switch directories](#)

Filter by name...   All locations   No grouping

33 items

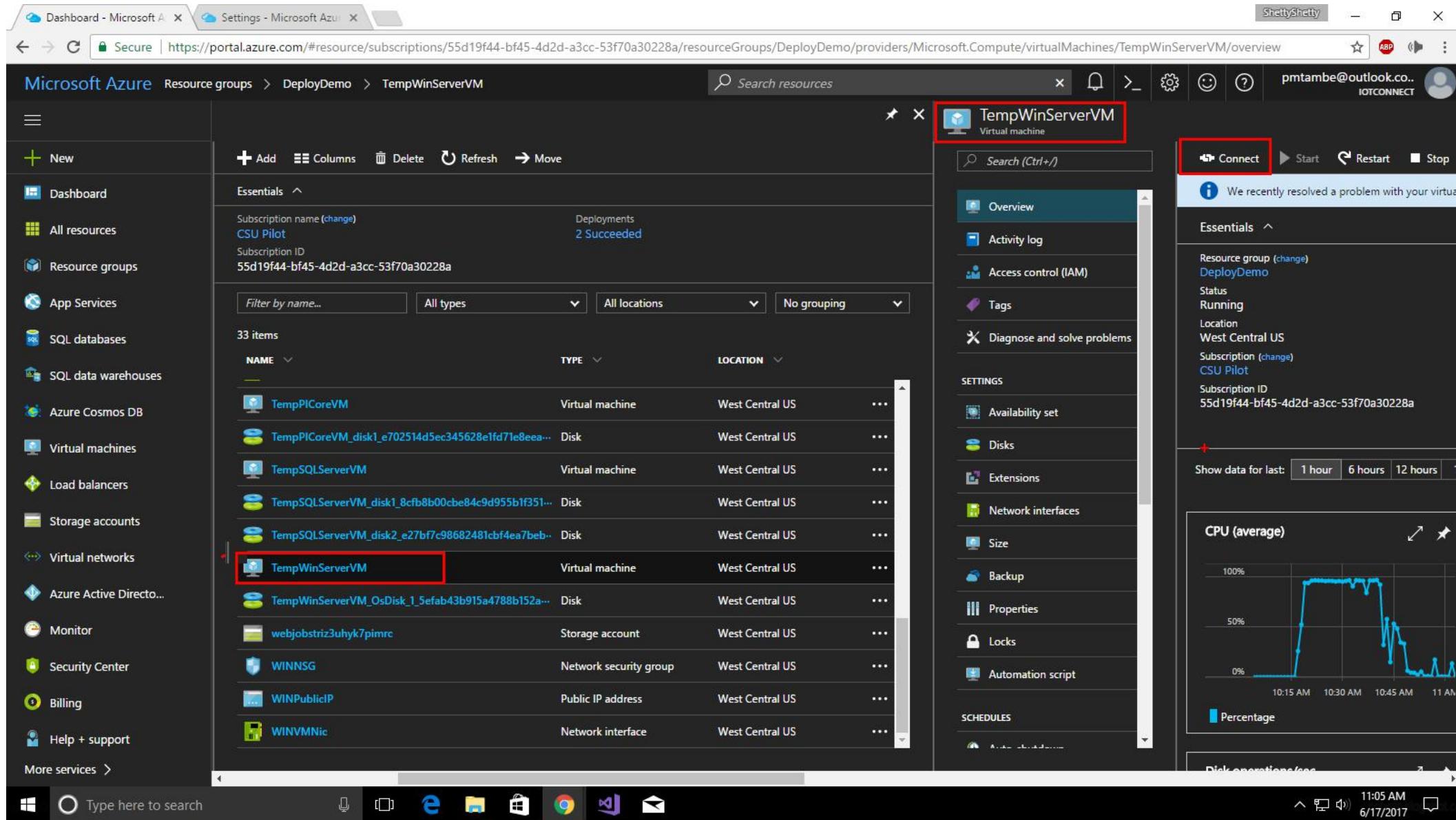
NAME	SUBSCRIPTION	LOCATION
Default-ApplicationInsights-EastUS	CSU Pilot	East US
Default-MachineLearning-SouthCentralUS	CSU Pilot	South Central US
Default-Networking	CSU Pilot	East US
Default-Storage-SouthCentralUS	CSU Pilot	South Central US
<b>DeployDemo</b>	CSU Pilot	West Central US
EAST-US	CSU Pilot	East US
eastus	CSU Pilot	East US
EmDeployment	CSU Pilot	West Central US
EnergyManagementWebJob	CSU Pilot	East US
EnergyManagementWebJobtesting	CSU Pilot	South Central US
Mobiliya-GeneralBot	CSU Pilot	South Central US
Mobiliya-HealthBot	CSU Pilot	South Central US
Mobiliya-PizzaBot	CSU Pilot	South Central US
MSPICoresight12	CSU Pilot	East US

https://portal.azure.com/#blade/HubsExtension/Resources/resourceType/Microsoft.Resources%2Fsubscriptions%2FresourceGroups

Type here to search   11:04 AM 6/17/2017

Filter Resource group and select.

# Select Tempwinservervm and click on Connect to download rdp.



The screenshot shows the Microsoft Azure portal interface. On the left, the navigation menu includes options like Dashboard, All resources, Resource groups, App Services, SQL databases, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directo..., Monitor, Security Center, Billing, Help + support, and More services. The main content area shows a list of resources under the 'TempWinServerVM' virtual machine. A red box highlights the 'TempWinServerVM' entry in the list. To the right, the 'TempWinServerVM' blade is open, displaying its details: it's a Virtual machine located in West Central US. The 'Connect' button is highlighted with a red box. Below the blade, there are sections for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, SETTINGS (Availability set, Disks, Extensions, Network interfaces, Size, Backup, Properties, Locks, Automation script), and SCHEDULES. At the bottom, there's a CPU (average) performance chart and a Disk operations/sec chart. The top right corner shows the user's name (ShettyShetty) and email (pmtambe@outlook.co.in).

Dashboard - Microsoft A   Settings - Microsoft Azur   ShettyShetty

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempWinServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempWinServerVM

Search resources

New   Add   Columns   Delete   Refresh   Move

Essentials ^

Subscription name (change) CSU Pilot   Deployments 2 Succeeded

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Filter by name... All types All locations No grouping

33 items

NAME	TYPE	LOCATION
TempPICoreVM	Virtual machine	West Central US
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8eea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US
TempWinServerVM	Virtual machine	West Central US
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US
webjobstrizuhyk7pimrc	Storage account	West Central US
WINNSG	Network security group	West Central US
WINPublicIP	Public IP address	West Central US

TempWinServerVM.rdp

Connect Start Restart Stop

We recently resolved a problem with your virtual machine.

Overview   Activity log   Access control (IAM)   Tags   Diagnose and solve problems

Resource group (change) DeployDemo   Status Running   Location West Central US   Subscription (change) CSU Pilot   Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Show data for last: 1 hour 6 hours 12 hours 1 day

CPU (average)

Percentage

100%   50%   0%

10:15 AM 10:30 AM 10:45 AM 11 AM

Type here to search   11:05 AM 6/17/2017

# Login to TEMPWINSERVERVM

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempWinServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempWinServerVM

Search resources

New   Add   Columns   Delete   Refresh   Move

Essentials ^

Subscription name (change) CSU Pilot  
Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Deployments 2 Succeeded

Remote Desktop Connection

The publisher of this remote connection can't be identified. Do you want to connect anyway?

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: Unknown publisher   Type: Remote Desktop Connection  
Remote computer: 52.161.96.51

Don't ask me again for connections to this computer

Show Details   Connect (button highlighted with red box)   Cancel

TempPICoreVM

TempPICoreVM\_disk1\_e702514d5ec345628e1fd7

TempSQLServerVM

TempSQLServerVM\_disk1\_8cfb8b00cbe84c9d95

TempSQLServerVM\_disk2\_e27bf7c98682481cbf4ea7beb.. Disk

TempWinServerVM

TempWinServerVM\_OsDisk\_1\_5efab43b915a4788b152a.. Disk

webjobstrizuhyk7pimrc

WINNSG

WINPublicIP

SETTINGS

- Availability set
- Disks
- Extensions
- Network interfaces
- Size
- Backup
- Properties
- Locks
- Automation script

Essentials ^

Resource group (change) DeployDemo  
Status Running  
Location West Central US  
Subscription (change) CSU Pilot  
Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Show data for last: 1 hour | 6 hours | 12 hours | 1 day

CPU (average)

Percentage

100%  
50%  
0%

10:15 AM 10:30 AM 10:45 AM 11 AM

11:05 AM 6/17/2017

TempWinServerVM.rdp

Type here to search

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation bar includes 'Dashboard', 'All resources', 'Resource groups', 'App Services', 'SQL databases', 'SQL data warehouses', 'Azure Cosmos DB', 'Virtual machines', 'Load balancers', 'Storage accounts', 'Virtual networks', 'Azure Active Directo...', 'Monitor', 'Security Center', 'Billing', 'Help + support', and 'More services >'. The main content area shows a list of resources under 'DeployDemo' resource group, including 'TempPICoreVM', 'TempSQLServerVM', 'TempWinServerVM', 'TempWinServerVM\_disk1', 'TempWinServerVM\_disk2', 'webjobstrizuhyk7pimrc', 'WINNSG', 'WINPublicIP', and 'WINVMNnic'. A search bar at the top right says 'Search resources'. A modal dialog titled 'Windows Security' is open, prompting for credentials to connect to '52.161.96.51'. It contains fields for 'adminuser' and a password, a checked 'Remember me' checkbox, and 'OK' and 'Cancel' buttons. To the right of the modal is the detailed view for 'TempWinServerVM', showing its status as 'Running' in 'West Central US'.

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempWinServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempWinServerVM

Search resources

New   Add   Columns   Delete   Refresh   Move

Essentials ^

Subscription name (change)  
CSU Pilot  
Subscription ID  
55d19f44-bf45-4d2d-a3cc-53f70a30228a

Filter by name... All types

33 items

NAME	Type	Region	...
TempPICoreVM	Virtual machine	West Central US	...
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8eea...	Disk	West Central US	...
TempSQLServerVM	Virtual machine	West Central US	...
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US	...
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US	...
TempWinServerVM	Virtual machine	West Central US	...
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US	...
webjobstrizuhyk7pimrc	Storage account	West Central US	...
WINNSG	Network security group	West Central US	...
WINPublicIP	Public IP address	West Central US	...
WINVMNic	Network interface	West Central US	...

Remote Desktop Connection

The identity of the remote computer cannot be verified. Do you want to connect anyway?

The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.

Certificate name

Name in the certificate from the remote computer:  
TempWinServerVM.demo.deploy.com

Certificate errors

The following errors were encountered while validating the remote computer's certificate:

The certificate is not from a trusted certifying authority.

Do you want to connect despite these certificate errors?

Don't ask me again for connections to this computer

**View certificate...**   **Yes** (Red Box)   **No**

TempWinServerVM

Virtual machine

Search (Ctrl+ /)

Connect   Start   Restart   Stop

We recently resolved a problem with your virtual machine.

Overview   Activity log   Access control (IAM)   Tags   Diagnose and solve problems

Resource group (change)  
DeployDemo  
Status  
Running  
Location  
West Central US  
Subscription (change)  
CSU Pilot  
Subscription ID  
55d19f44-bf45-4d2d-a3cc-53f70a30228a

Show data for last: 1 hour   6 hours   12 hours   1 day

CPU (average)

Percentage

100%  
50%  
0%

10:15 AM   10:30 AM   10:45 AM   11 AM

Disk operations/sec

11:06 AM 6/17/2017

Type here to search

Server Manager

Server Manager › Dashboard

**Dashboard**

- Local Server
- All Servers
- AD DS
- DNS
- File and Storage Services ▾

**WELCOME TO SERVER MANAGER**

1 Configure this local server

- Add roles and features
- Add other servers to manage
- Create a server group
- Connect this server to cloud services

QUICK START

WHAT'S NEW

LEARN MORE

**ROLES AND SERVER GROUPS**

Roles: 3 | Server groups: 1 | Servers total: 1

 AD DS 1	 DNS 1	 File and Storage Services 1	 Local Server 1
<ul style="list-style-type: none"><li>Manageability</li><li>Events</li><li>Services</li><li>Performance</li><li>BPA results</li></ul>			

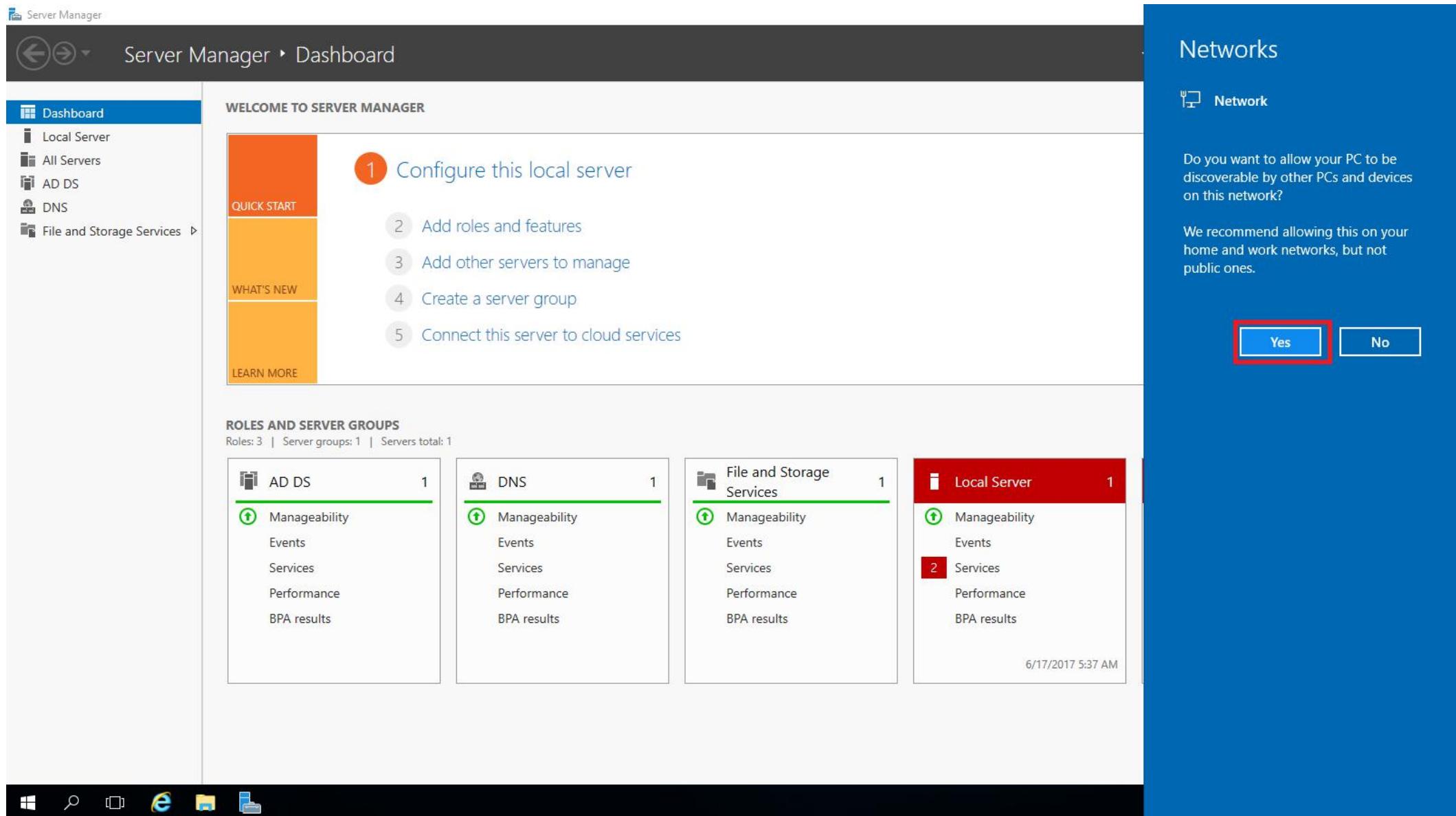
6/17/2017 5:37 AM

**Network**

Do you want to allow your PC to be discoverable by other PCs and devices on this network?

We recommend allowing this on your home and work networks, but not public ones.

**Yes** **No**



Server Manager

Server Manager › Dashboard

WELCOME TO SERVER MANAGER

1 Configure this local server

Windows Server

Server Manager Windows PowerShell Windows PowerShell ISE  
Windows Administrative Tools Task Manager Control Panel  
Remote Desktop... Event Viewer File Explorer

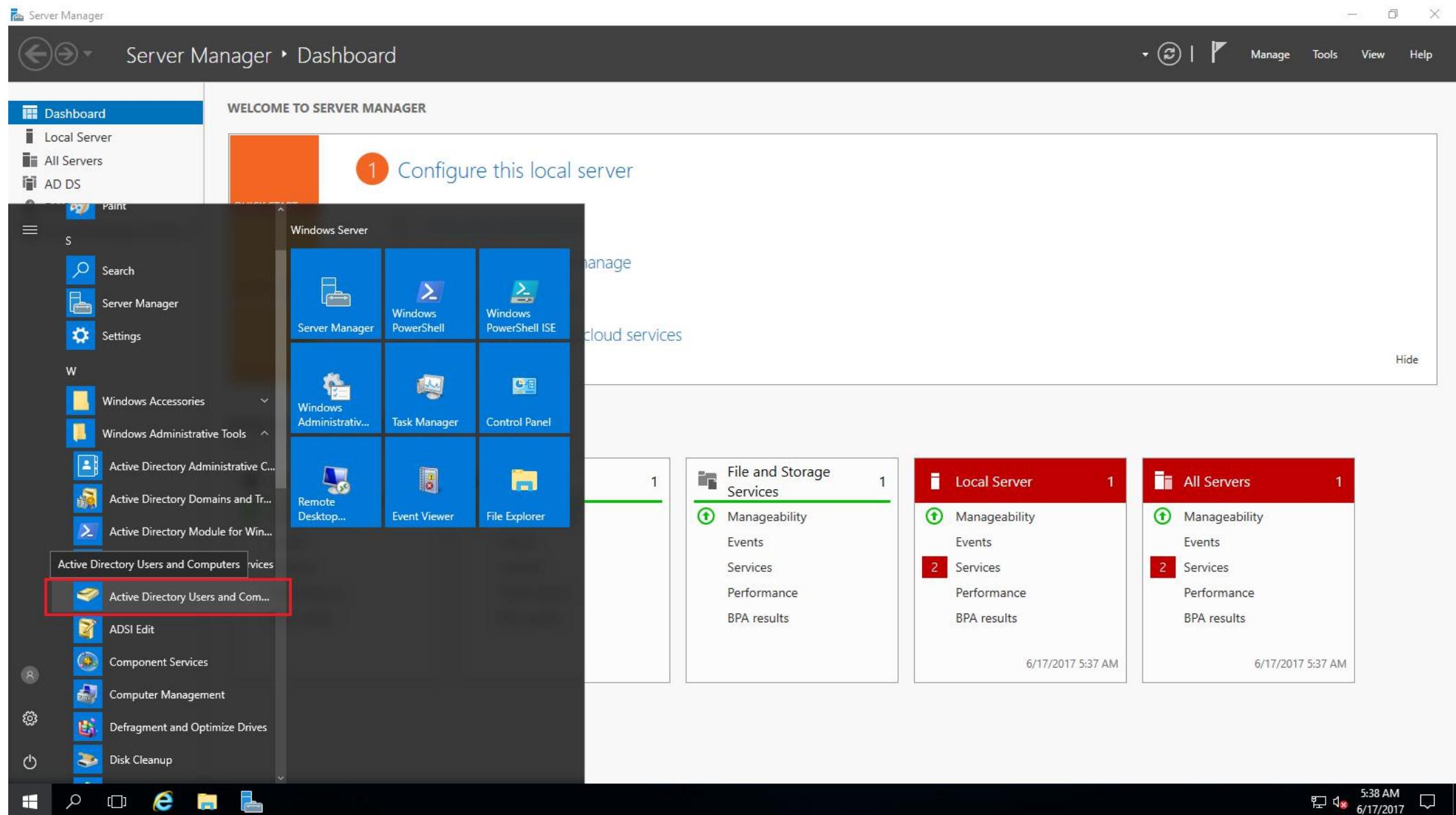
File and Storage Services 1  
Manageability Events Services Performance BPA results  
6/17/2017 5:37 AM

Local Server 1  
Manageability Events Services Performance BPA results  
6/17/2017 5:37 AM

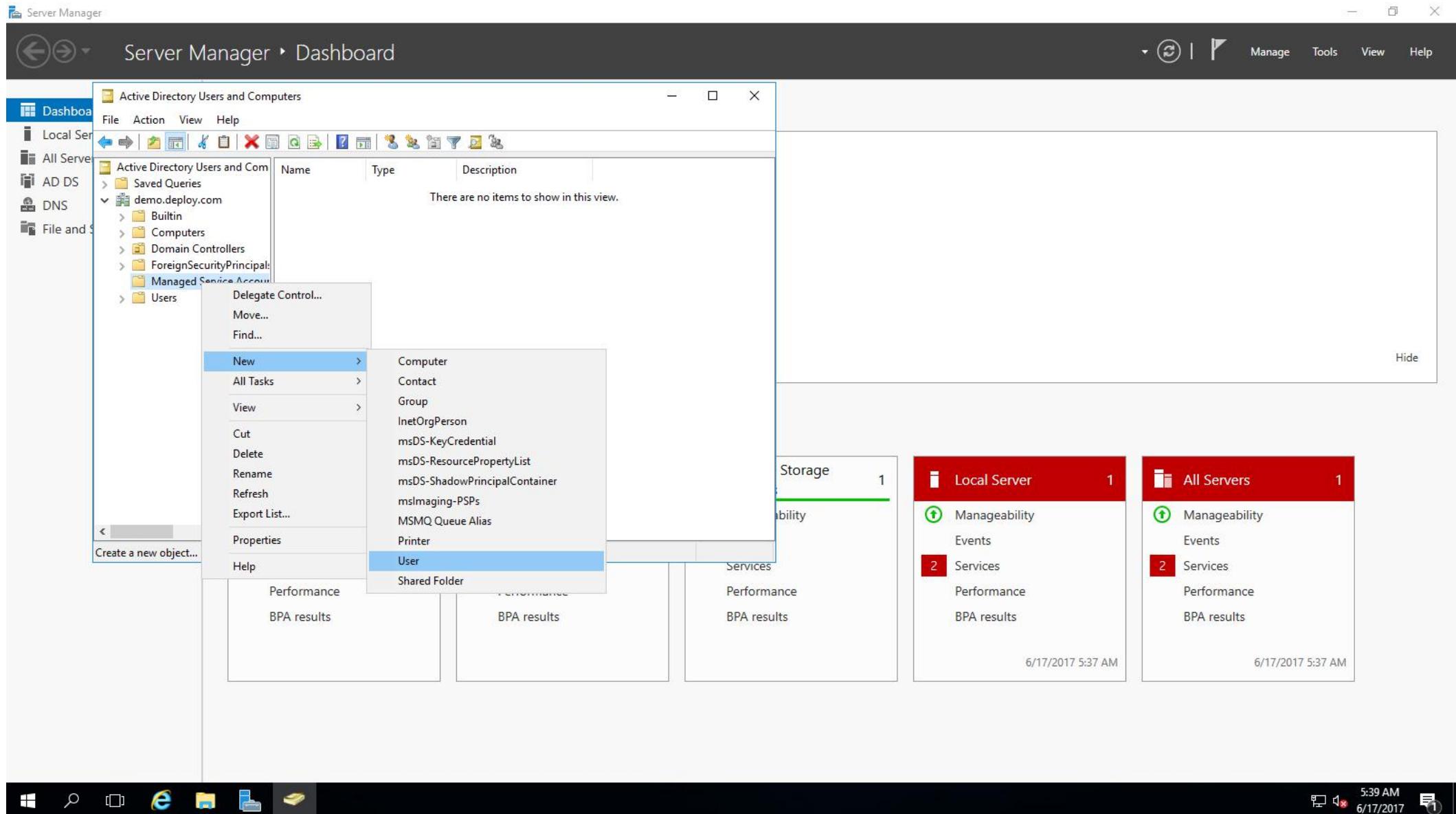
All Servers 1  
Manageability Events Services Performance BPA results  
6/17/2017 5:37 AM

Dashboard Local Server All Servers AD DS  
Search Server Manager Settings  
Windows Accessories Windows Administrative Tools Active Directory Administrative C...  
Active Directory Domains and Tr... Active Directory Module for Win...  
Active Directory Users and Computers  
Active Directory Users and Com...  
ADSI Edit Component Services Computer Management Defragment and Optimize Drives Disk Cleanup

5:38 AM 6/17/2017



# TEMPWINSERVERVM - Create Managed Service Accounts User



Server Manager

Server Manager > Dashboard

New Object - User

Create in: demo.deploy.com/Managed Service Accounts

First name: PIBAInterface Initials:

Last name:

Full name: PIBAInterface

User logon name: PIBAInterface @demo.deploy.com

User logon name (pre-Windows 2000): DEMO\PIBAInterface

< Back Cancel

Storage 1 Manageability 1 Local Server 1 All Servers 1

Manageability Events Services Performance BPA results

Events 2 Services 2 Performance BPA results

6/17/2017 5:37 AM 6/17/2017 5:37 AM

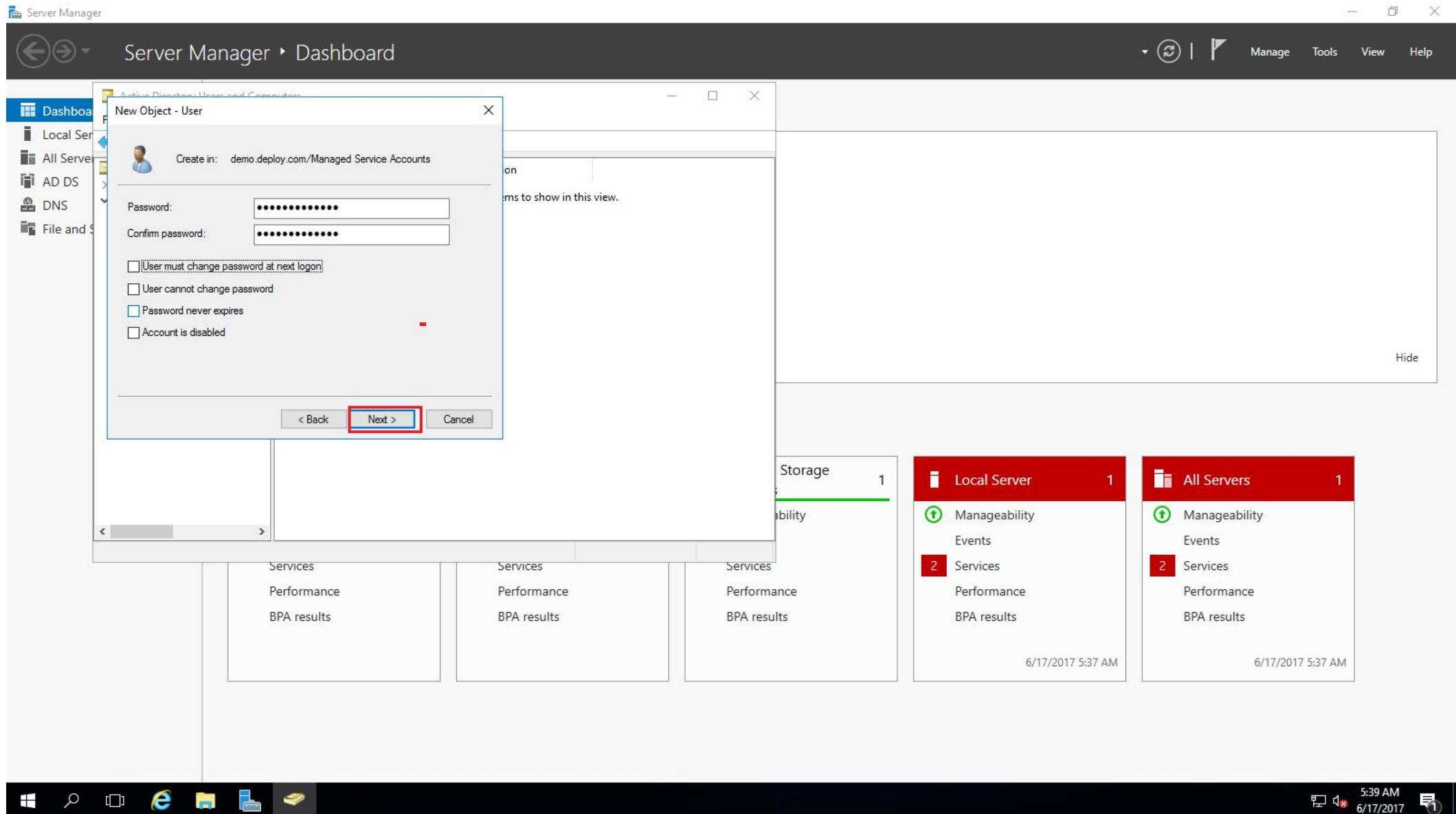
Services Performance BPA results

Performance BPA results

BPA results

Windows Taskbar: Start, Search, Task View, Internet Explorer, File Explorer, File History, Taskbar Icons, System Tray (5:39 AM, 6/17/2017)

## TEMPWINSERVERVM - Uncheck change password checkbox



Server Manager

Server Manager > Dashboard

New Object - User

Create in: demo.deploy.com/Managed Service Accounts

When you click Finish, the following object will be created:

Full name: PIBAInterface  
User logon name: PIBAInterface@demo.deploy.com

< Back **Finish** Cancel

Storage 1

Local Server 1

All Servers 1

Manageability Events Services Performance BPA results

Manageability Events Services Performance BPA results

6/17/2017 5:37 AM 6/17/2017 5:37 AM



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# TEMPWINSERVERVM - Add new user to "Domain Admins" and "Administrators" group

Server Manager

Server Manager ▶ Dashboard

**Active Directory Users and Computers**

File Action View Help

Dashboard Local Server All Servers AD DS DNS File and S...

Active Directory Users and Computers

Name Type Description

PIBALInterface User

Saved Queries demo.deploy.com Builtin Computers Domain Controllers ForeignSecurityPrincipal: Managed Service Account Users

Storage 1 Manageability Local Server 1 Manageability All Servers 1 Manageability

Manageability Events Services Performance BPA results

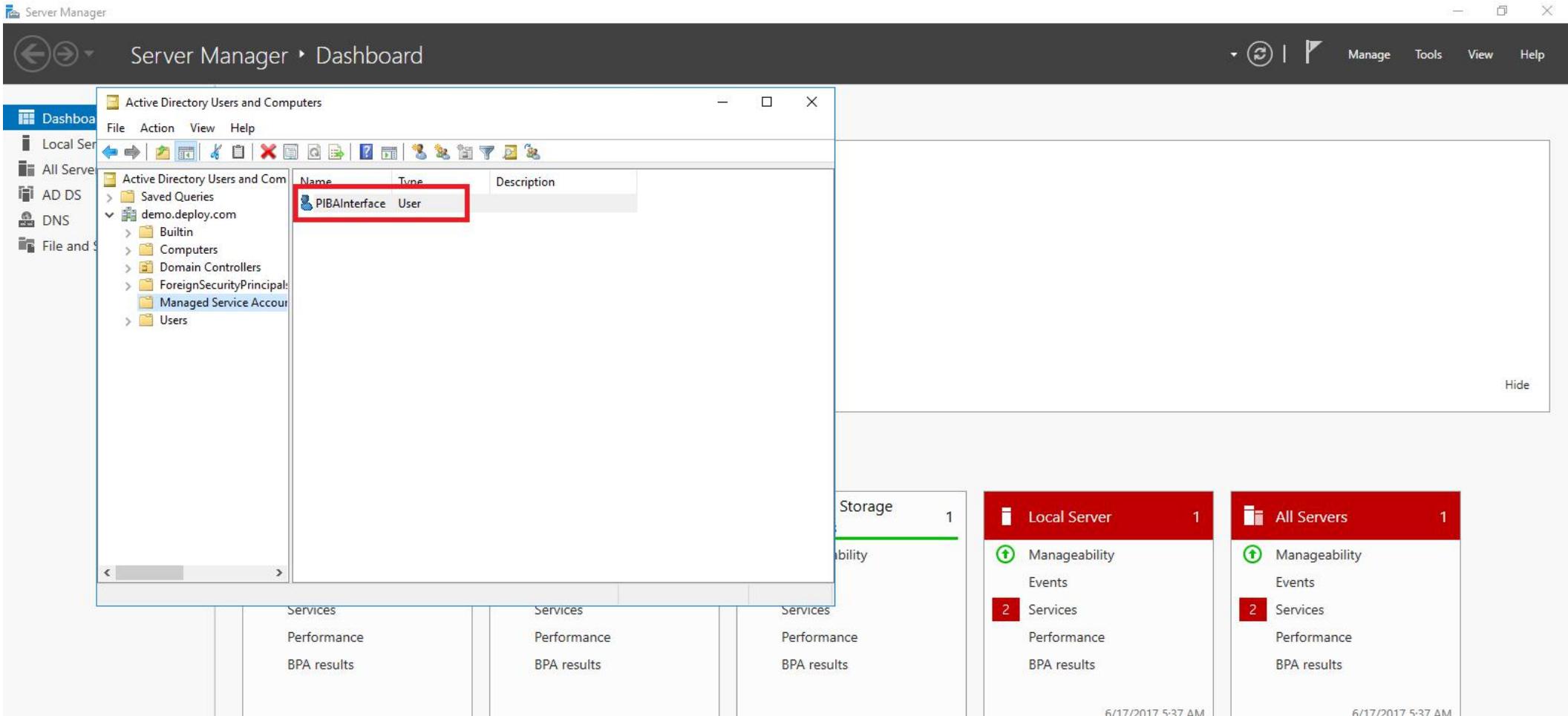
Manageability Events Services Performance BPA results

Manageability Events Services Performance BPA results

6/17/2017 5:37 AM 6/17/2017 5:37 AM

Windows Start Task View Internet Explorer File Home Network Mail Control Panel

5:40 AM 6/17/2017 1



Server Manager

Server Manager › Dashboard

Active Directory Users and Computers

File Action View Help

Dashboard Local Server All Servers AD DS DNS File and S...

Active Directory Users and Computers

Name Type Description

PIBALintef... User

Copy... Add to a group... Disable Account Reset Password... Move... Open Home Page Send Mail All Tasks > Cut Delete Rename Properties Help

Opens the properties dialog box for the current selection.

Storage 1

Local Server 1

All Servers 1

Manageability Events Services Performance BPA results

Manageability Events Services Performance BPA results

6/17/2017 5:37 AM 6/17/2017 5:37 AM

Windows Search Internet Explorer File Explorer Task View Taskbar Icons

5:40 AM 6/17/2017

Server Manager

Server Manager › Dashboard

PIBAInterface Properties

Member Of Dial-in Environment Sessions

Remote control Remote Desktop Services Profile COM+

General Address Account Profile Telephones Organization

PIBAInterface

First name: PIBAInterface Initials:

Last name:

Display name: PIBAInterface

Description:

Office:

Telephone number:  Other...

E-mail:

Web page:  Other...

OK Cancel Apply Help

Storage 1

Local Server 1

All Servers 1

Manageability Events Services Performance BPA results

6/17/2017 5:37 AM

6/17/2017 5:37 AM

Services

Performance BPA results

Performance BPA results

Windows Taskbar

Server Manager

Server Manager › Dashboard

WELCOME TO SERVER MANAGER

PIBAInterface Properties

Member Of:

Name	Active Directory Domain Services Folder
Domain Users	demo.deploy.com/Users

Add... Remove

Primary group: Domain Users

Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

OK Cancel Apply Help

File Action View

Remote control Remote Desktop Services Profile COM+

General Address Account Profile Telephones Organization

Member Of Dial-in Environment Sessions

1 2 3 4 5

QUICK START

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS

Roles: 3 | Server groups: 1 | Servers: 1

AD DS

Manageability Events Services Performance BPA results

1 All Servers 1

Manageability Events Services Performance BPA results

6/17/2017 5:37 AM

6/17/2017 5:37 AM

Windows Start Internet Explorer File Home

5:41 AM 6/17/2017

Server Manager

Server Manager > Dashboard

WELCOME TO SERVER MANAGER

PIBAInterface Properties

Select Groups

Object Types... Locations...

From this location: demo.deploy.com

Enter the object names to select (examples): domain admin

Check Names

OK Cancel Advanced... Add... Remove

Primary group: Domain Users

Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

OK Cancel Apply Help

QUICK START

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS

Roles: 3 | Server groups: 1 | Servers: 1

AD DS

Manageability Events Services Performance BPA results

1 All Servers 1

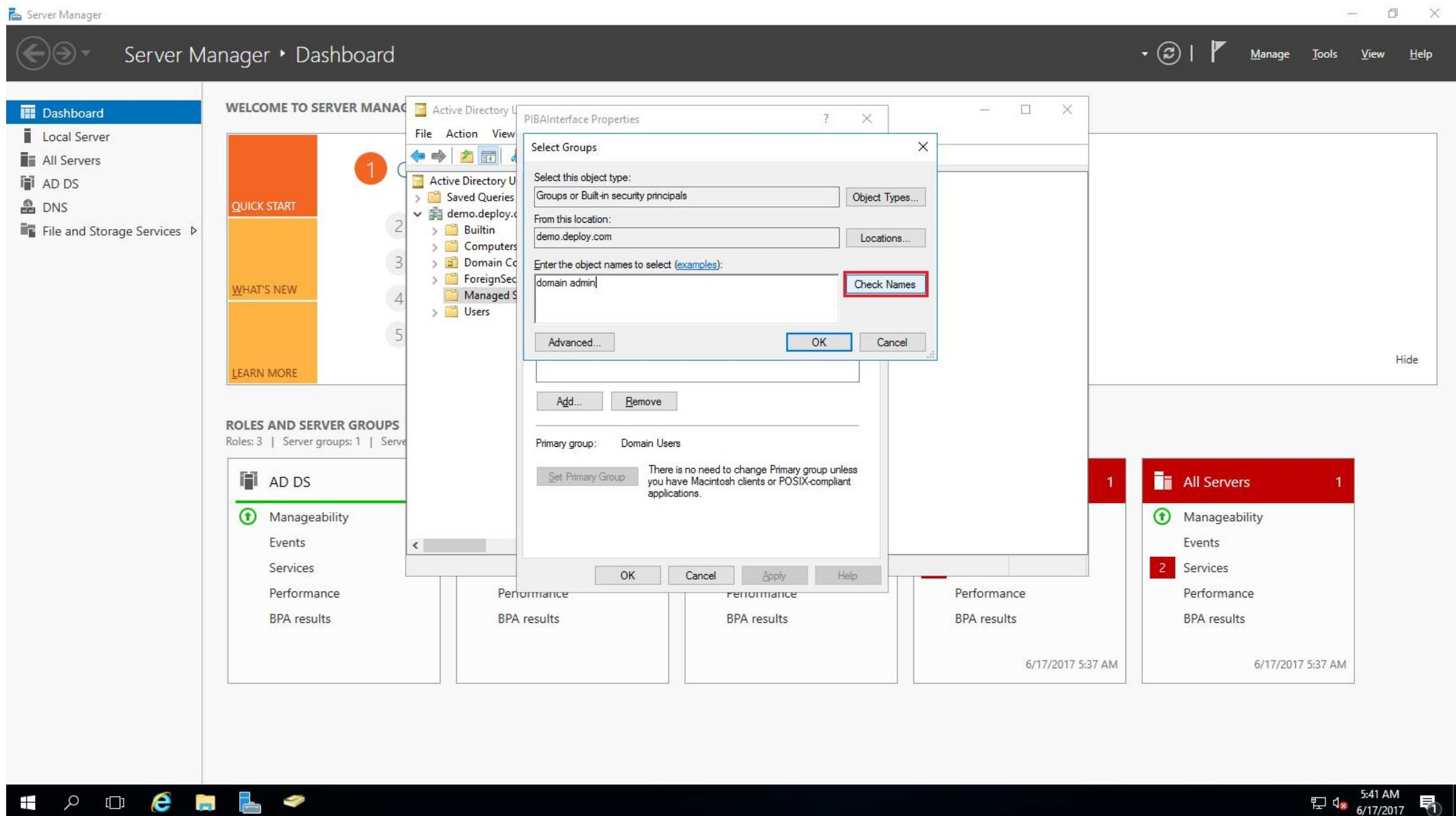
Manageability Events Services Performance BPA results

6/17/2017 5:37 AM

6/17/2017 5:37 AM

1

5:41 AM 6/17/2017



Server Manager

Server Manager > Dashboard

WELCOME TO SERVER MANAGER

PIBAInterface Properties

Select Groups

Object Types... Locations... Check Names

Domain Admins

OK Cancel Advanced... Add... Remove

Primary group: Domain Users Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

File Action View

QUICK START

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS

Roles: 3 | Server groups: 1 | Servers: 1

AD DS

Manageability Events Services Performance BPA results

1 1 All Servers Manageability Events Services Performance BPA results 6/17/2017 5:37 AM

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5:42 AM 6/17/2017

Server Manager

Server Manager › Dashboard

WELCOME TO SERVER MANAGER

PIBAInterface Properties

Member Of:

Name	Active Directory Domain Services Folder
Domain Admins	demo.deploy.com/Users
Domain Users	demo.deploy.com/Users

Add... Remove

Primary group: Domain Users

Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

OK Cancel Apply Help

File Action View

Remote control Remote Desktop Services Profile COM+

General Address Account Profile Telephones Organization

Dial-in Environment Sessions

Member Of Dial-in Environment Sessions

QUICK START

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS

Roles: 3 | Server groups: 1 | Servers: 1

AD DS

Manageability Events Services Performance BPA results

1 All Servers 1

Manageability Events Services Performance BPA results

6/17/2017 5:37 AM

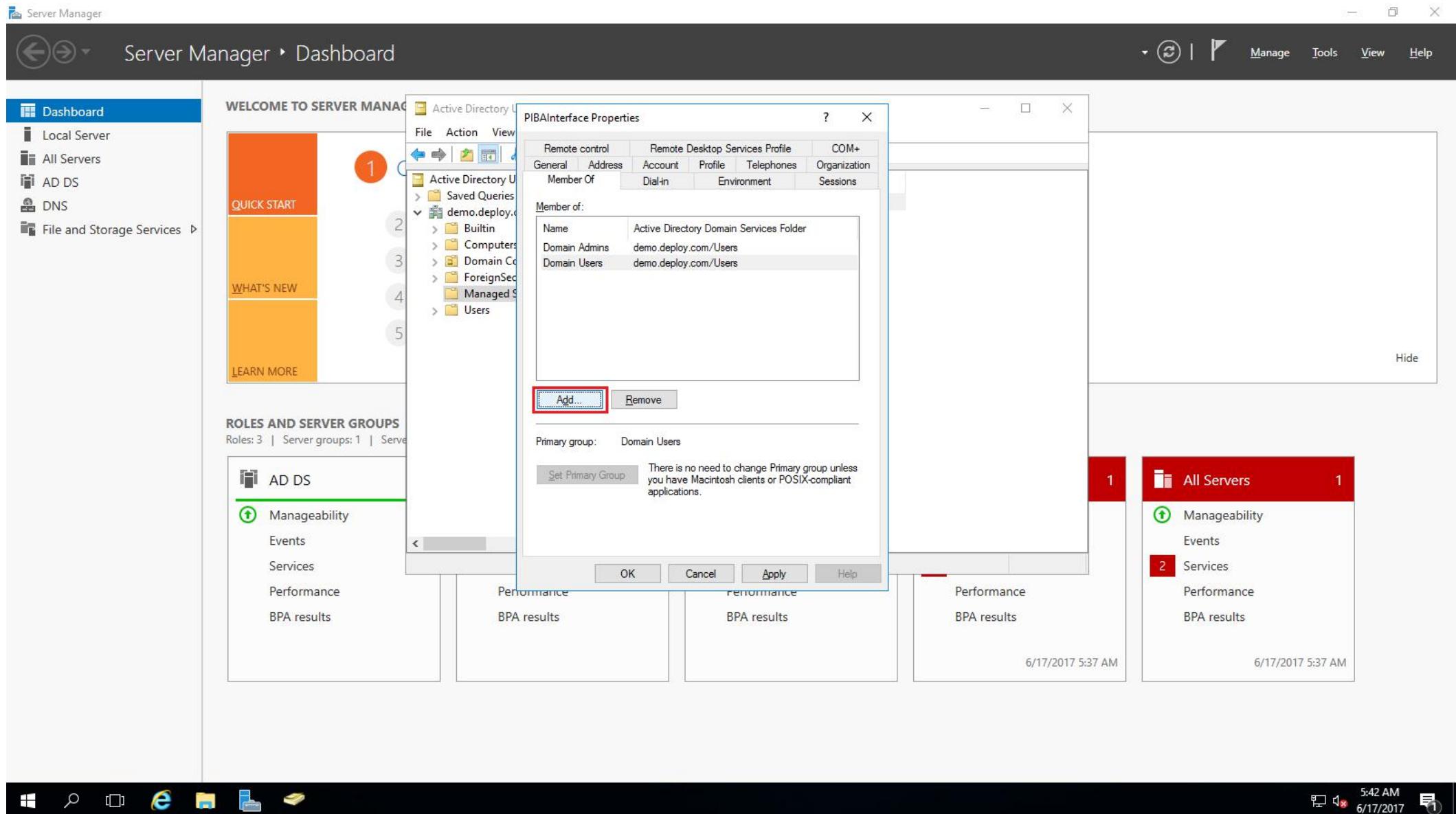
6/17/2017 5:37 AM

1 2

Performance BPA results

Performance BPA results

5:42 AM 6/17/2017



Server Manager

Server Manager > Dashboard

WELCOME TO SERVER MANAGER

PIBAInterface Properties

Select Groups

Object Types... Locations...

Enter the object names to select (examples): admin Check Names

Advanced... OK Cancel

Add... Remove

Primary group: Domain Users Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

OK Cancel Apply Help

File Action View

QUICK START

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS

Roles: 3 | Server groups: 1 | Servers: 1

AD DS

Manageability Events Services Performance BPA results

1 All Servers 1

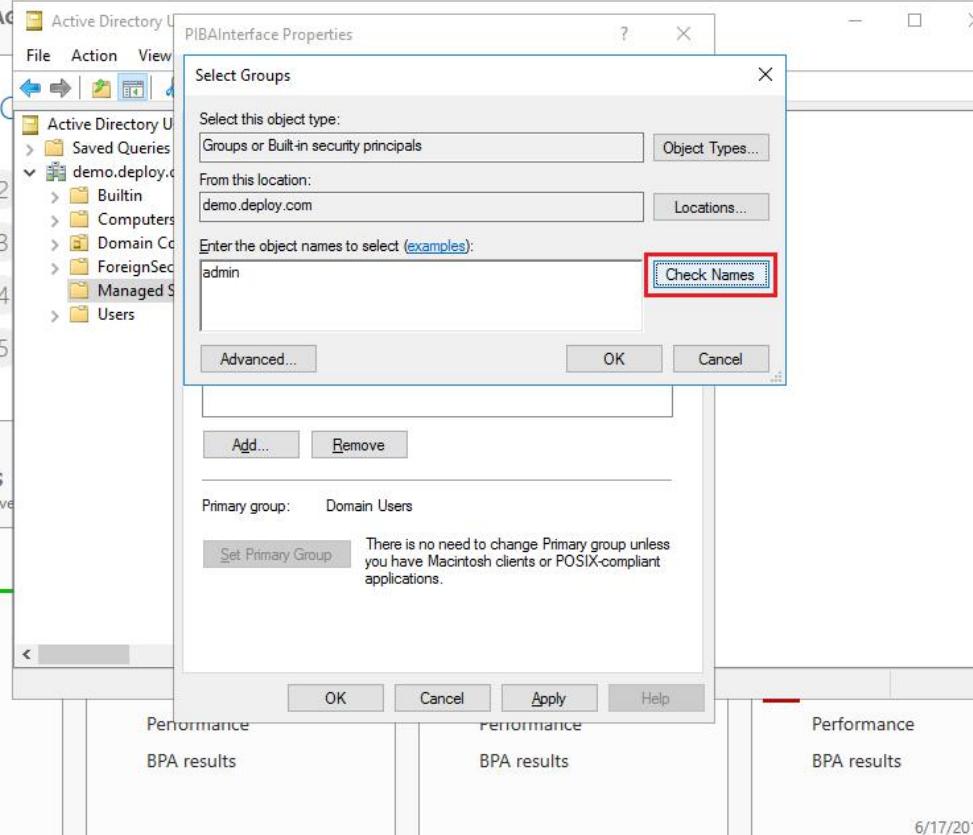
Manageability Events Services Performance BPA results

6/17/2017 5:37 AM

6/17/2017 5:37 AM

1

5:42 AM 6/17/2017



Server Manager

Server Manager > Dashboard

WELCOME TO SERVER MANAGER

PIBAInterface Properties

Select Groups

Object Types... Locations... Check Names

Administrators

OK Cancel Advanced... Add... Remove

Primary group: Domain Users Set Primary Group There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

File Action View

QUICK START

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS

Roles: 3 | Server groups: 1 | Servers: 1

AD DS

Manageability Events Services Performance BPA results

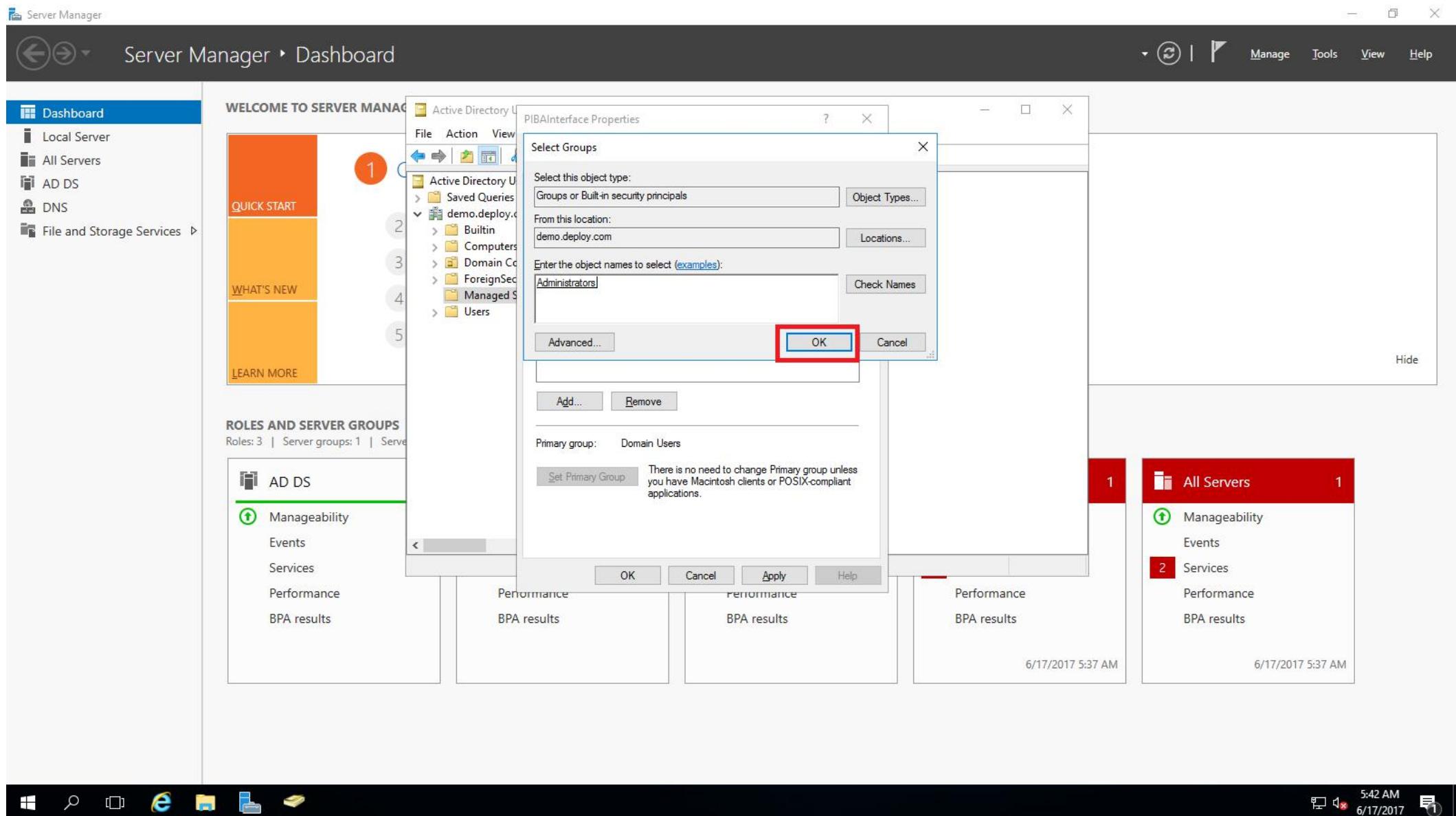
1 All Servers 1

Manageability Events Services Performance BPA results

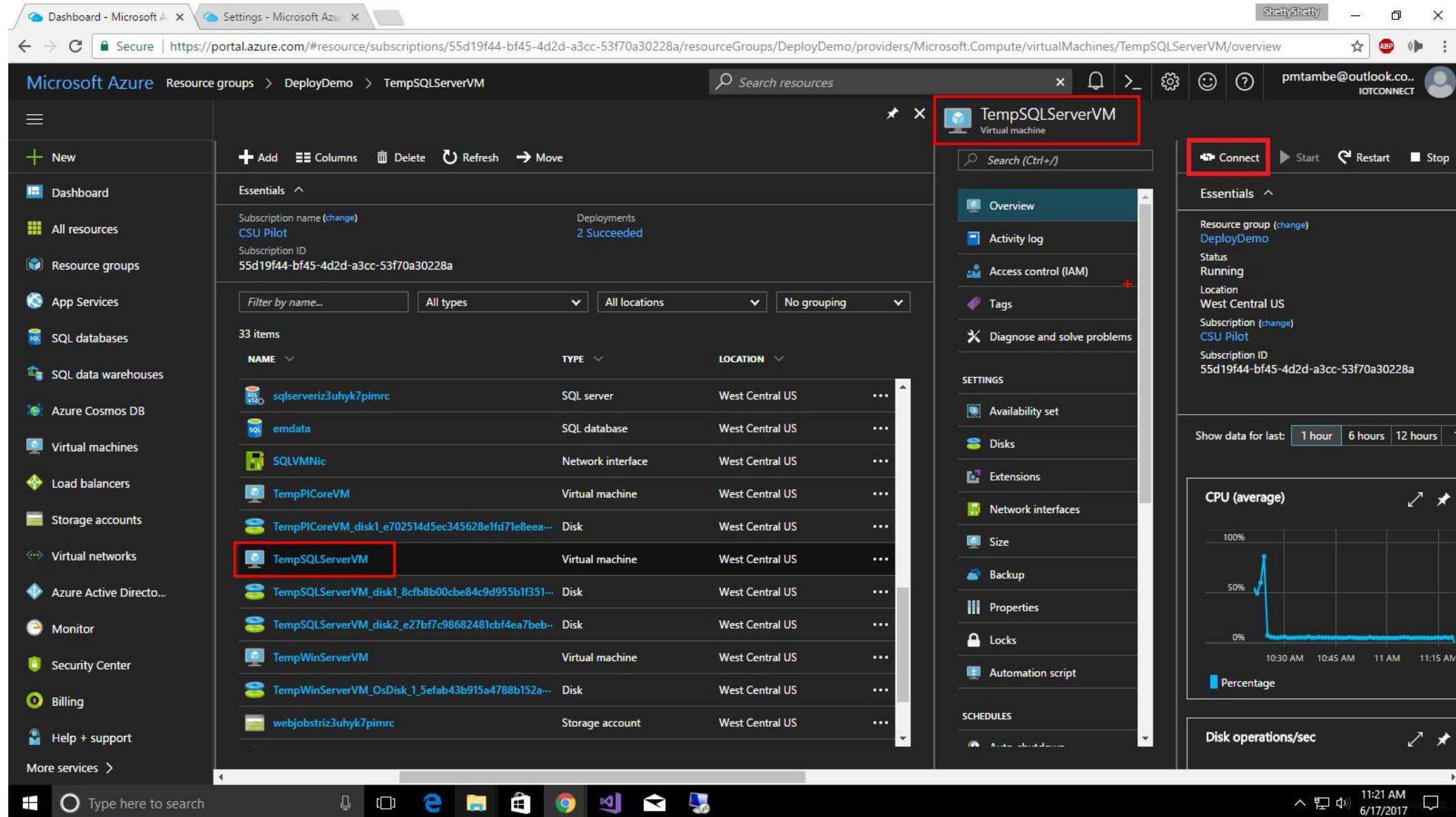
6/17/2017 5:37 AM

6/17/2017 5:37 AM

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# PI Server Configuration - Login to TEMPSQLSERVERVM



The screenshot shows the Microsoft Azure portal interface. The left sidebar lists various services: Dashboard, All resources, Resource groups, App Services, SQL databases, SQL data warehouses, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directo..., Monitor, Security Center, Billing, Help + support, and More services. The main content area shows a list of resources under the 'TempSQLServerVM' virtual machine. A red box highlights the 'TempSQLServerVM' entry in the list. Another red box highlights the 'Connect' button in the top right corner of the resource details panel. The resource details panel on the right shows the 'TempSQLServerVM' icon, the name 'TempSQLServerVM', 'Virtual machine', the 'Subscription name (change)' as 'CSU Pilot', 'Subscription ID' as '55d19f44-bf45-4d2d-a3cc-53f70a30228a', and the 'Status' as 'Running'. It also displays monitoring charts for CPU (average) and Disk operations/sec.

Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM

Search resources

TempSQLServerVM Virtual machine

Connect Start Restart Stop

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

SETTINGS Availability set Disks Extensions Network interfaces Size Backup Properties Locks Automation script

SCHEDULES

CPU (average)

Disk operations/sec

1 hour 6 hours 12 hours 1 day

100% 50% 0%

10:30 AM 10:45 AM 11 AM 11:15 AM

Percentage

11:21 AM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempSQLServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM

Search resources

New   Add   Columns   Delete   Refresh   Move

Essentials

Subscription name (change) CSU Pilot   Deployments 2 Succeeded

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Filter by name... All types All locations No grouping

33 items

NAME	TYPE	LOCATION
sqlserveriz3uhyk7pimrc	SQL server	West Central US
emdata	SQL database	West Central US
SQLVMNIC	Network interface	West Central US
TempPICoreVM	Virtual machine	West Central US
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8ea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US
TempWinServerVM	Virtual machine	West Central US
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US

TempSQLServerVM Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop

Overview   Activity log   Access control (IAM)   Tags   Diagnose and solve problems

SETTINGS

Availability set   Disks   Extensions   Network interfaces   Size   Backup   Properties   Locks   Automation script

Show data for last: 1 hour 6 hours 12 hours 1 day

CPU (average)

Percentage

100%   50%   0%

10:30 AM 10:45 AM 11 AM 11:15 AM

TempSQLServerVM.rdp

Type here to search

11:26 AM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempSQLServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM

Search resources

New Add Columns Delete Refresh Move

Essentials ^

Subscription name (change) CSU Pilot Deployment 2 Succeeded

Filter by name... All types

33 items NAME

- sqlserveriz3uhyk7pimrc
- emdata
- SQLVMNic
- TempPICoreVM
- TempPICoreVM\_disk1\_e702514d5ec345628e1fd71e8eeaa...
- TempSQLServerVM
- TempSQLServerVM\_disk1\_8cfb8b00cbe84c9d955b1f351...
- TempSQLServerVM\_disk2\_e27bf7c98682481cbf4ea7beb...
- TempWinServerVM
- TempWinServerVM\_OsDisk\_1\_5efab43b915a4788b152a...

Remote Desktop Connection

The publisher of this remote connection can't be identified. Do you want to connect anyway?

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: Unknown publisher Type: Remote Desktop Connection Remote computer: 52.161.107.195

Don't ask me again for connections to this computer

Show Details Connect Cancel

TempSQLServerVM Virtual machine

Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

SETTINGS Availability set Disks Extensions Network interfaces Size Backup Properties Locks Automation script

Essentials ^

Resource group (change) DeployDemo

Status Running Location West Central US Subscription (change) CSU Pilot Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Show data for last: 1 hour 6 hours 12 hours 1 day

CPU (average)

Percentage

100% 50% 0%

10:30 AM 10:45 AM 11 AM 11:15 AM

Type here to search

11:27 AM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempSQLServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM

Search resources

New   Add   Columns   Delete   Refresh   Move

Essentials ^

Subscription name (change) CSU Pilot  
Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Deployments 2 Succeeded

Filter by name... All types

33 items

NAME	
sqlserveriz3uhyk7pimrc	
emdata	
SQLVMNic	
TempPICoreVM	
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8	
TempSQLServerVM	Virtual machine West Central US ...
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk West Central US ...
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk West Central US ...
TempWinServerVM	Virtual machine West Central US ...
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk West Central US ...
webjobstriz3uhyk7pimrc	Storage account West Central US ...

Windows Security

Enter your credentials

These credentials will be used to connect to 52.161.107.195.

adminuser

\*\*\*\*\*

Remember me

OK Cancel

TempSQLServerVM Virtual machine

Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

SETTINGS

Availability set Disks Extensions Network interfaces Size Backup Properties Locks Automation script

SCHEDULES

CPU (average) Disk operations/sec

Show data for last: 1 hour 6 hours 12 hours 1 day

100% 50% 0% 10:30 AM 10:45 AM 11 AM 11:15 AM Percentage

11:29 AM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempSQLServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM

Search resources

New Add Columns Delete Refresh Move

Subscription name (change) CSU Pilot  
Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Filter by name... All types

33 items

NAME			
sqlserveriz3uhyk7pimrc			
emdata			
SQLVMN1c			
TempPICoreVM			
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8ea...			
TempSQLServerVM			...
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US	...
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US	...
TempWinServerVM	Virtual machine	West Central US	...
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US	...
webjobstriz3uhyk7pimrc	Storage account	West Central US	...

Remote Desktop Connection

The identity of the remote computer cannot be verified. Do you want to connect anyway?

The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.

Certificate name  
Name in the certificate from the remote computer: TempSQLServerVM

Certificate errors  
The following errors were encountered while validating the remote computer's certificate:  
The certificate is not from a trusted certifying authority.

Do you want to connect despite these certificate errors?  
 Don't ask me again for connections to this computer

[View certificate...](#) [Yes](#) [No](#)

TempSQLServerVM Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop

Essentials

Resource group (change) DeployDemo  
Status Running  
Location West Central US  
Subscription (change) CSU Pilot  
Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Show data for last: 1 hour 6 hours 12 hours 1 day

CPU (average)

Percentage

100%  
50%  
0%

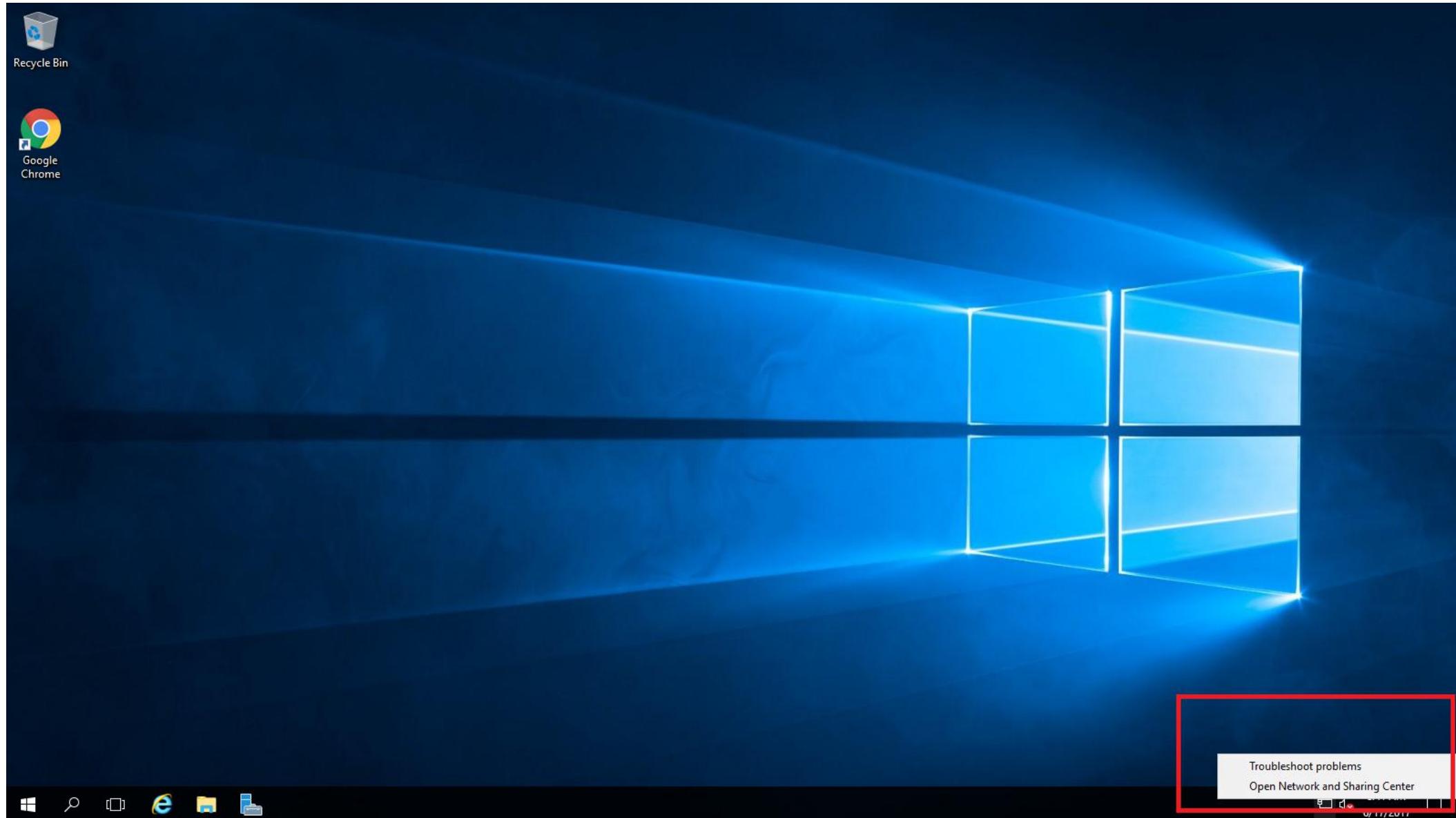
10:30 AM 10:45 AM 11 AM 11:15 AM

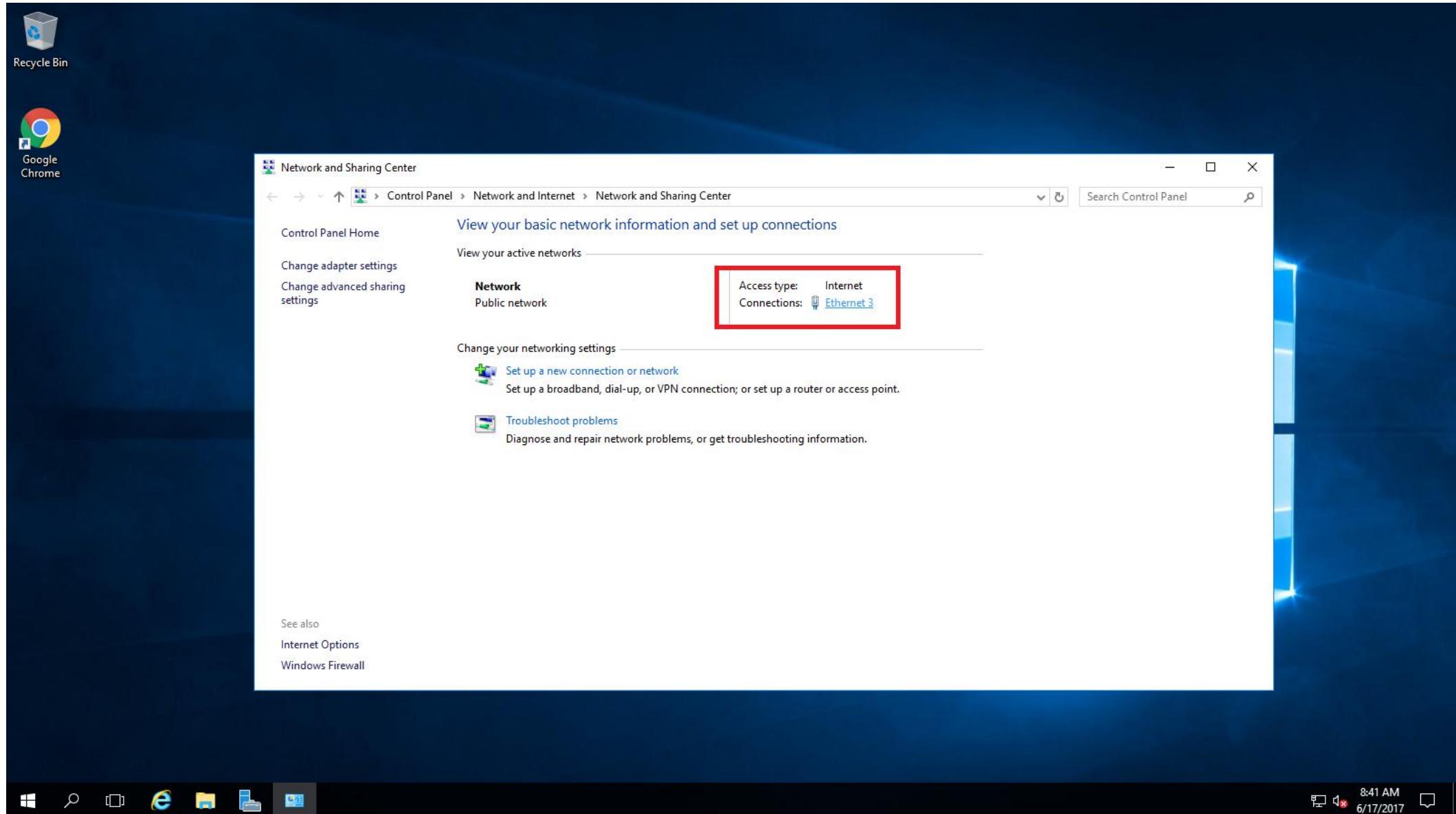
Disk operations/sec

11:29 AM 6/17/2017

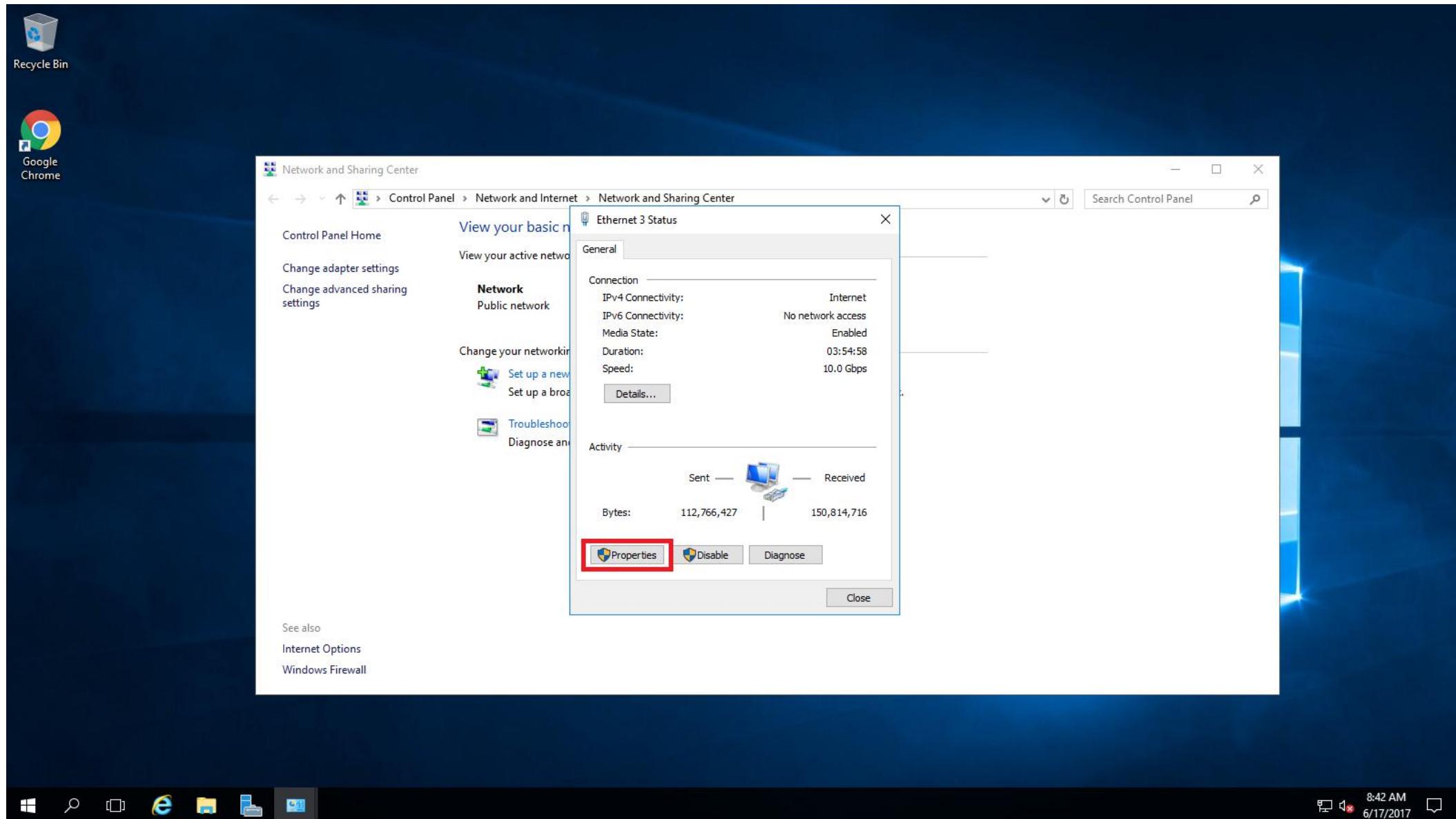
Type here to search

# TEMPSQLSERVERVM - Adding server to domain

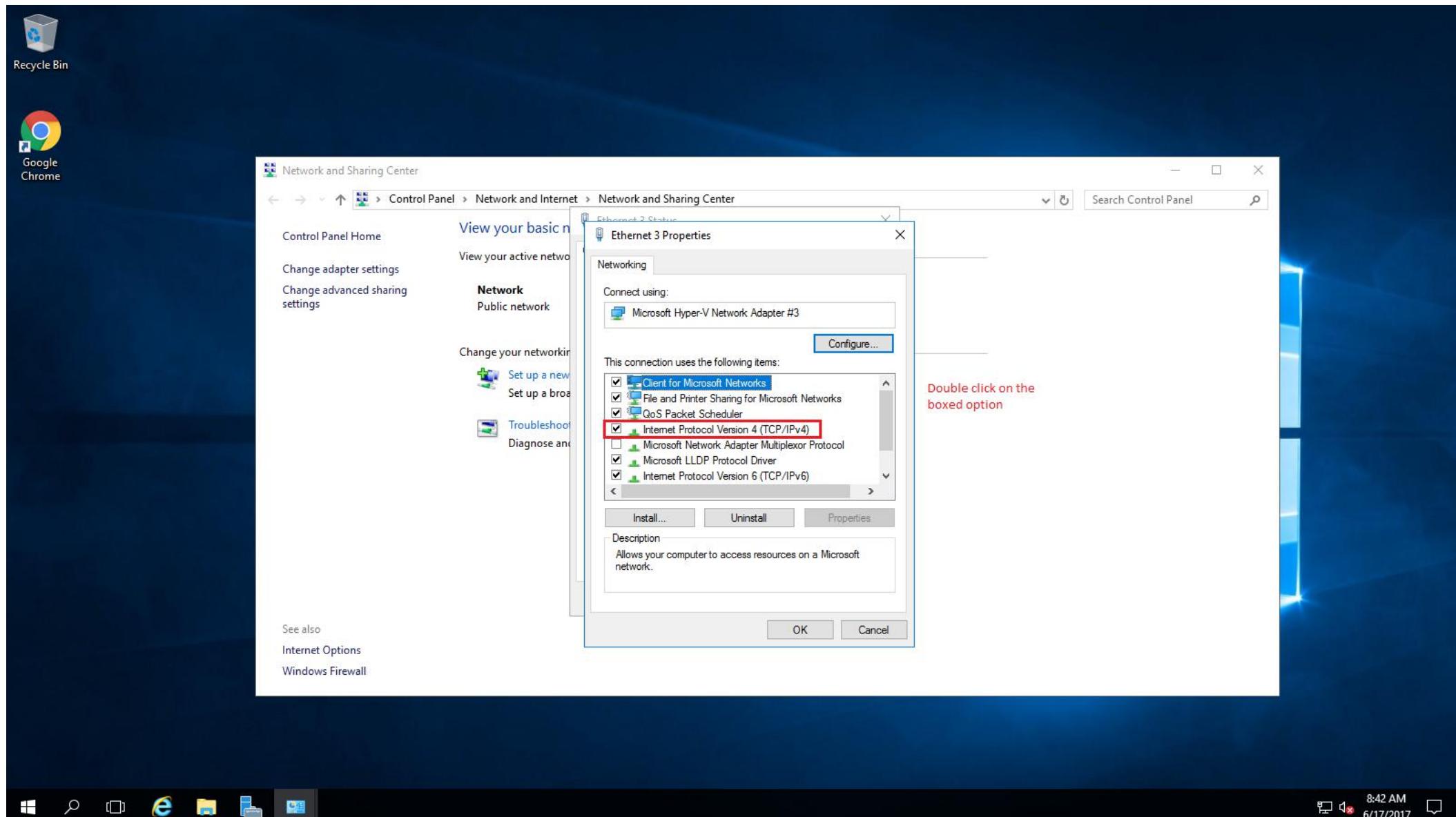




## TEMPSQLSERVERVM - Updating DNS ip address



# TEMPSQLSERVERVM - Get Win Server IP address and domain name to update here



# Note Domain name and virtual ip address of Win server for adding other VM to domain

Screenshot of the Microsoft Azure portal showing the Resource Groups blade for the "DeployDemo" resource group.

The "TempSQLServerVM" virtual machine is selected in the list of resources.

NAME	TYPE	LOCATION
sqlserveriz3uhyk7pimrc	SQL server	West Central US
emdata	SQL database	West Central US
SQLVMNic	Network interface	West Central US
TempPICoreVM	Virtual machine	West Central US
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8ea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US
TempWinServerVM	Virtual machine	West Central US
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US
webjobstriz3uhyk7pimrc	Storage account	West Central US

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempWinServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempWinServerVM

Search resources x

TempWinServerVM Virtual machine

Connect Start Restart Stop Capture Move Delete Refresh

We recently resolved a problem with your virtual machine.

**Essentials**

Resource group (change) DeployDemo Computer name TempWinServerVM  
 Status Running Operating system Windows  
 Location West Central US Size Standard DS1 v2 (1 core, 3.5 GB memory)  
 Subscription (change) CSU Pilot Public IP address 52.161.96.51  
 Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a Virtual network/subnet MyVNET/Subnet  
 DNS name windd12.westcentralus.cloudapp.azure.com

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

**CPU (average)**

Percentage

**Network (total)**

In Out

**Disk bytes (total)**

Read Write

Type here to search

2:13 PM 6/17/2017

MyVNET - Microsoft Azure   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourcegroups/DeployDemo/providers/Microsoft.Network/virtualNetworks/MyVNET/overview

Microsoft Azure Resource groups > DeployDemo > TempWinServerVM > MyVNET

Search resources

New

Dashboard

All resources

Resource groups

App Services

SQL databases

SQL data warehouses

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directo...

Monitor

Security Center

Billing

Help + support

More services >

MyVNET Virtual network

Overview

Activity log

Access control (IAM)

Tags

Address space

Connected devices

Subnets

DNS servers

Peerings

Properties

Locks

Automation script

Diagram

Search connected devices

Move Delete

Essentials

Resource group (change) DeployDemo

Location West Central US

Subscription (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

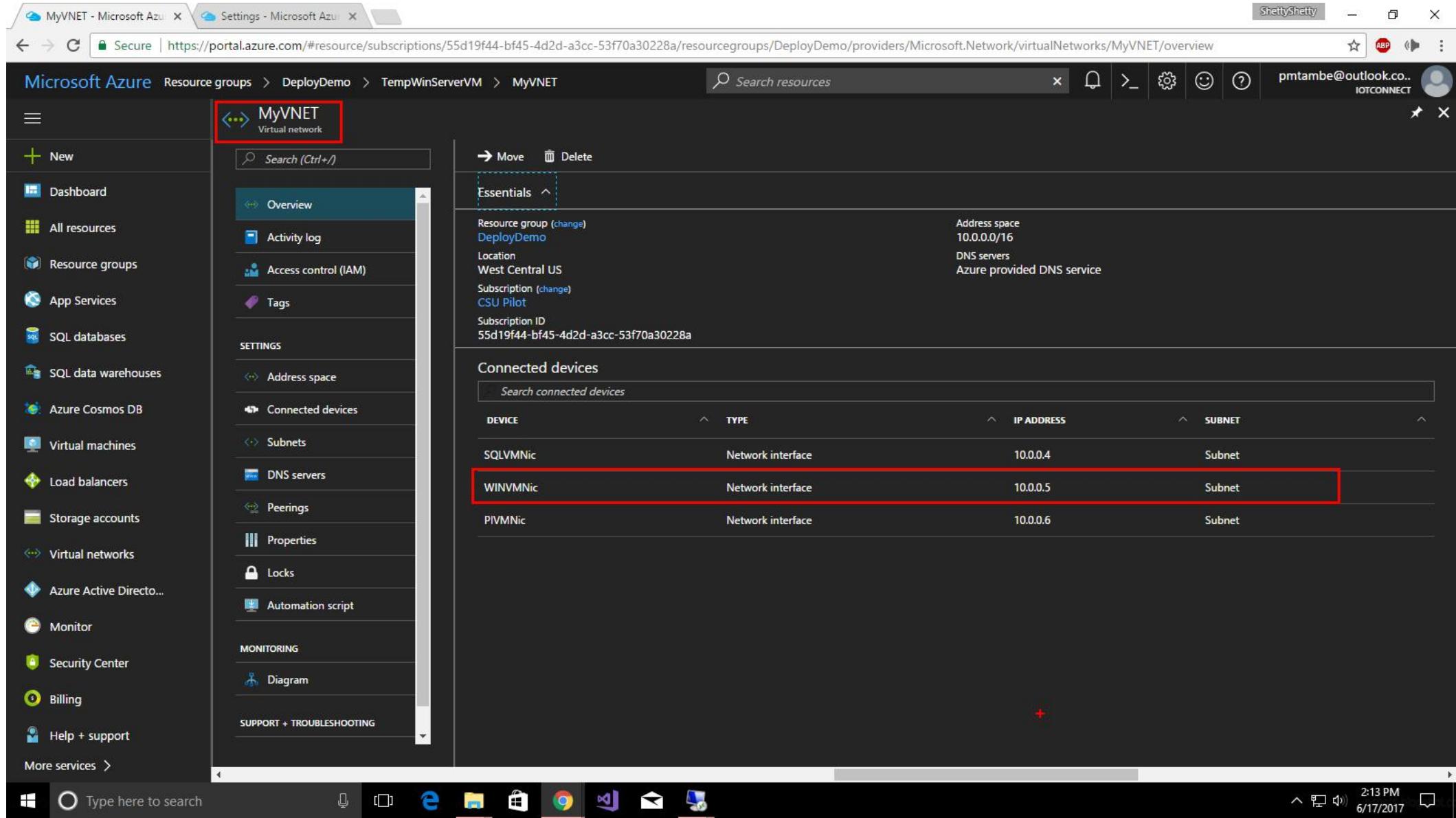
Address space 10.0.0.0/16

DNS servers Azure provided DNS service

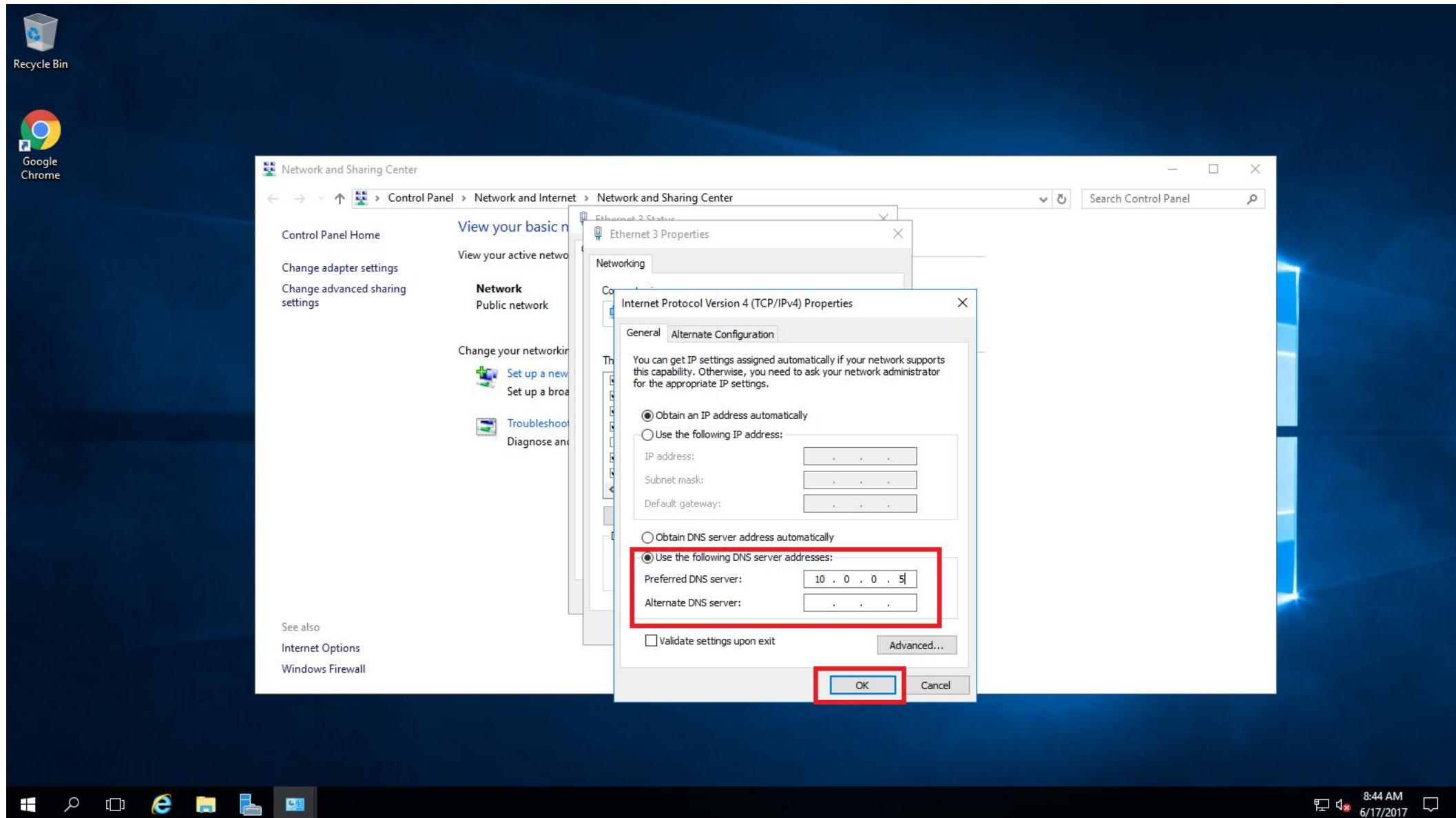
Connected devices

DEVICE	TYPE	IP ADDRESS	SUBNET
SQLVMNic	Network interface	10.0.0.4	Subnet
WINVMNic	Network interface	10.0.0.5	Subnet
PIVMNic	Network interface	10.0.0.6	Subnet

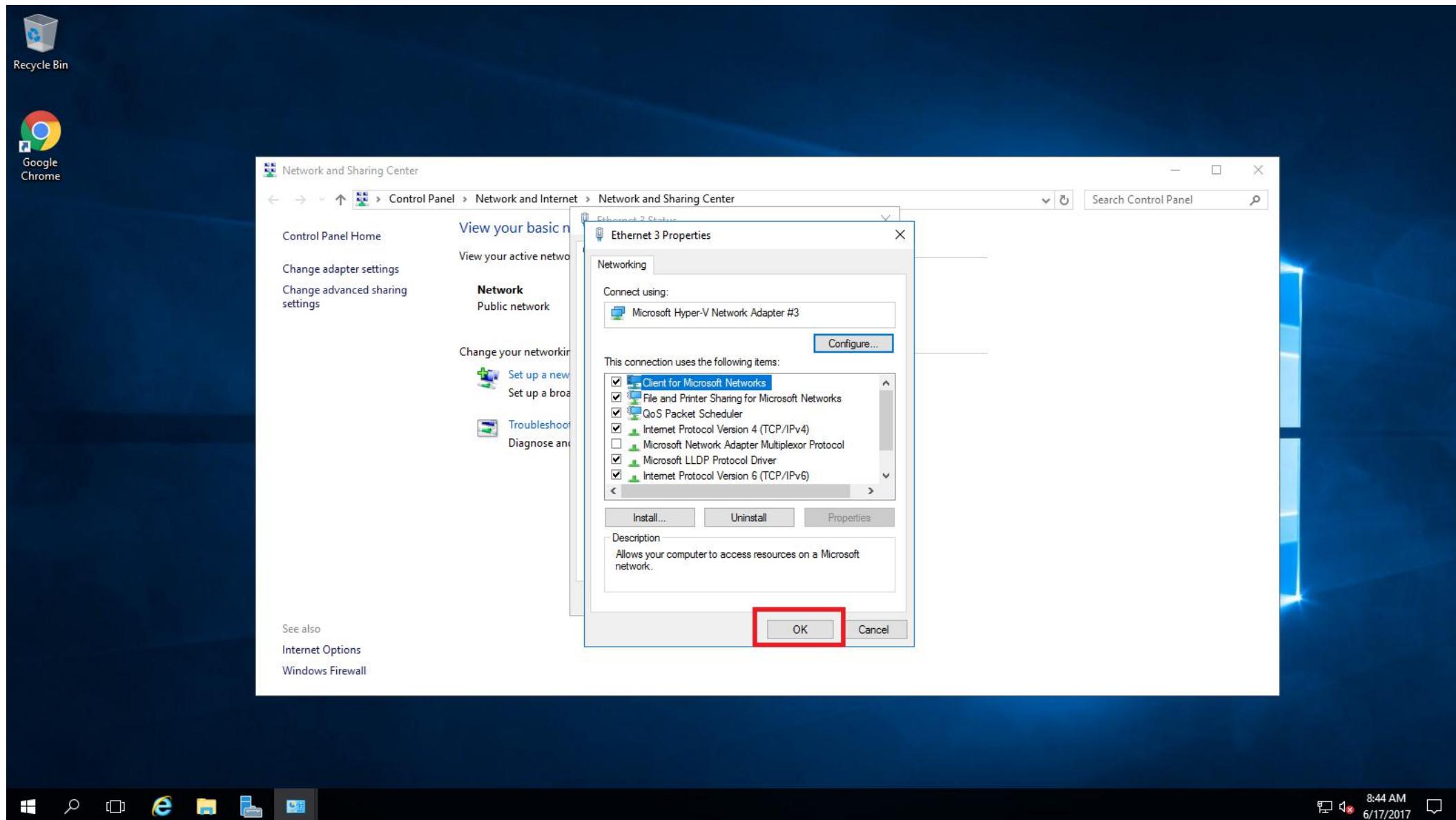
2:13 PM 6/17/2017



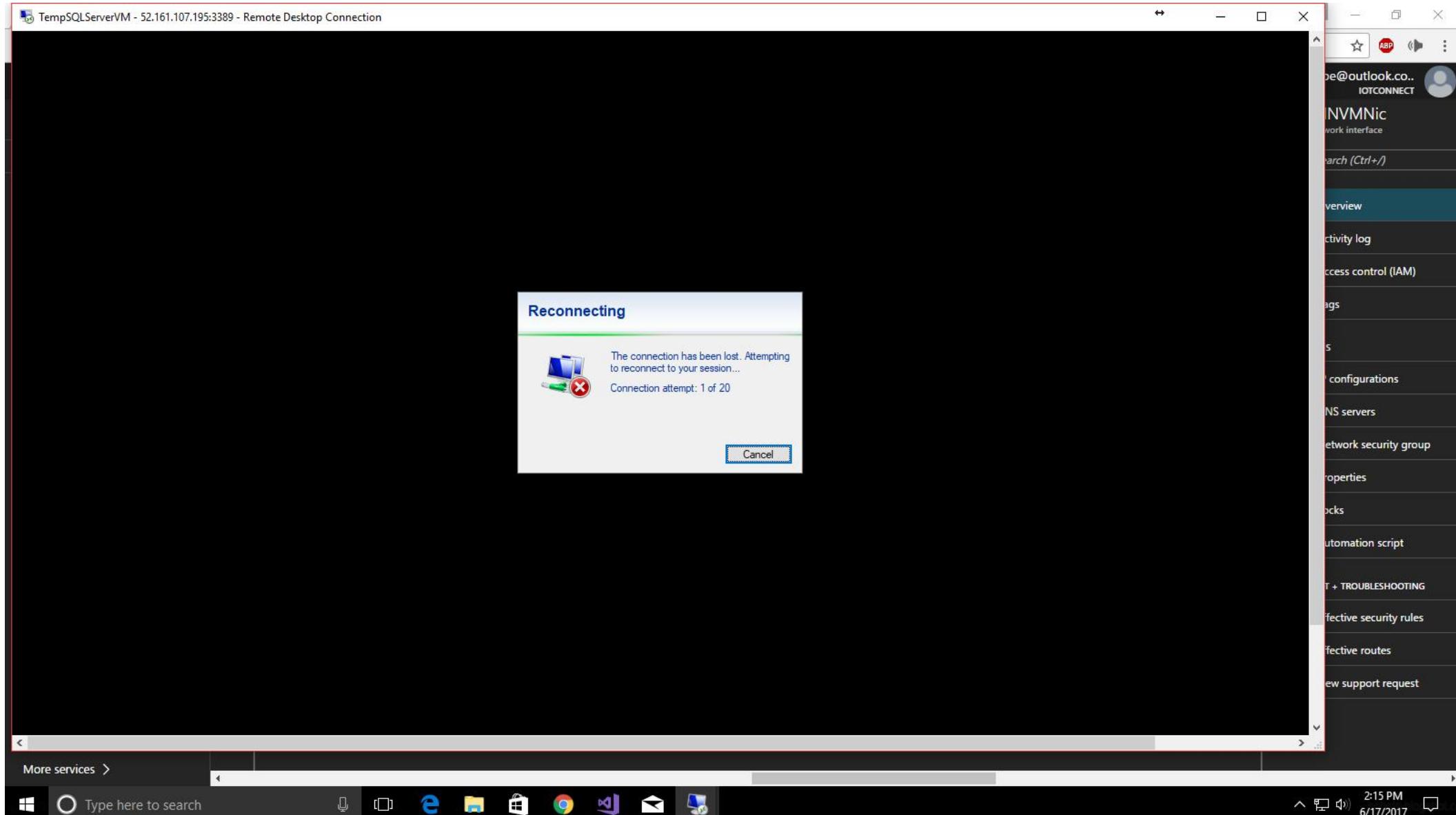
## TEMPSQLSERVERVM - Update Win Server IP Address



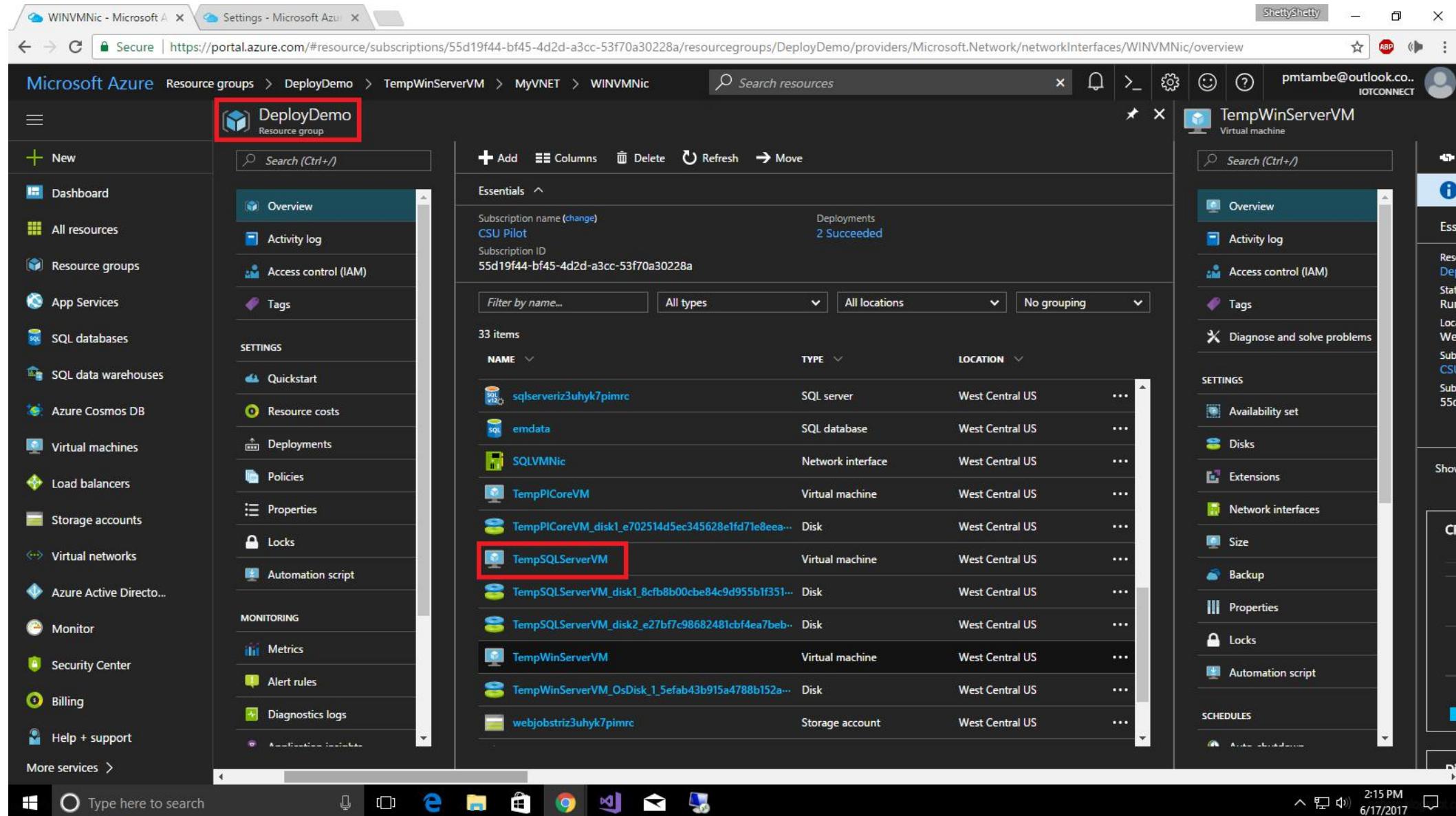
# TEMPSQLSERVERVM - Save changes. Remote will get disconnected.



# TEMPSQLSERVERVM - Remote disconnected. Restart VM from Azure portal



# TEMPSQLSERVERVM - Restarting VM from Azure portal.



The screenshot shows the Microsoft Azure portal interface. The left sidebar lists various services: Dashboard, All resources, Resource groups, App Services, SQL databases, SQL data warehouses, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directo..., Monitor, Security Center, Billing, Help + support, and More services >. The main area displays the 'Resource groups' blade for the 'DeployDemo' group. The 'Essentials' section shows a subscription name 'CSU Pilot' and a deployment status of '2 Succeeded'. The main list contains 33 items, including 'sqlserveriz3uhyk7pimrc' (SQL server), 'emdata' (SQL database), 'SQLVMNic' (Network interface), 'TempPiCoreVM' (Virtual machine), 'TempPiCoreVM\_disk1\_e702514d5ec345628e1fd71e8eea...' (Disk), 'TempSQLServerVM' (Virtual machine, highlighted with a red box), 'TempSQLServerVM\_disk1\_8cfb8b00cbe84c9d955b1f351...' (Disk), 'TempSQLServerVM\_disk2\_e27bf7c98682481cbf4ea7beb...' (Disk), 'TempWinServerVM' (Virtual machine), 'TempWinServerVM\_OsDisk\_1\_5efab43b915a4788b152a...' (Disk), and 'webjobstriz3uhyk7pimrc' (Storage account). The right sidebar provides detailed information for the selected 'TempSQLServerVM' virtual machine.

NAME	TYPE	LOCATION
sqlserveriz3uhyk7pimrc	SQL server	West Central US
emdata	SQL database	West Central US
SQLVMNic	Network interface	West Central US
TempPiCoreVM	Virtual machine	West Central US
TempPiCoreVM_disk1_e702514d5ec345628e1fd71e8eea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US
TempWinServerVM	Virtual machine	West Central US
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US
webjobstriz3uhyk7pimrc	Storage account	West Central US

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Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempSQLServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM

TempSQLServerVM Virtual machine

Search resources x

Connect Start **Restart** Stop Capture Move Delete Refresh

Essentials

Resource group (change) DeployDemo

Status Running

Location West Central US

Subscription (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Computer name TempSQLServerVM

Operating system Windows

Size Standard DS1 v2 (1 core, 3.5 GB memory)

Public IP address 52.161.107.195

Virtual network/subnet MyVNET/Subnet

DNS name sqldd12.westcentralus.cloudapp.azure.com

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

Network (total)

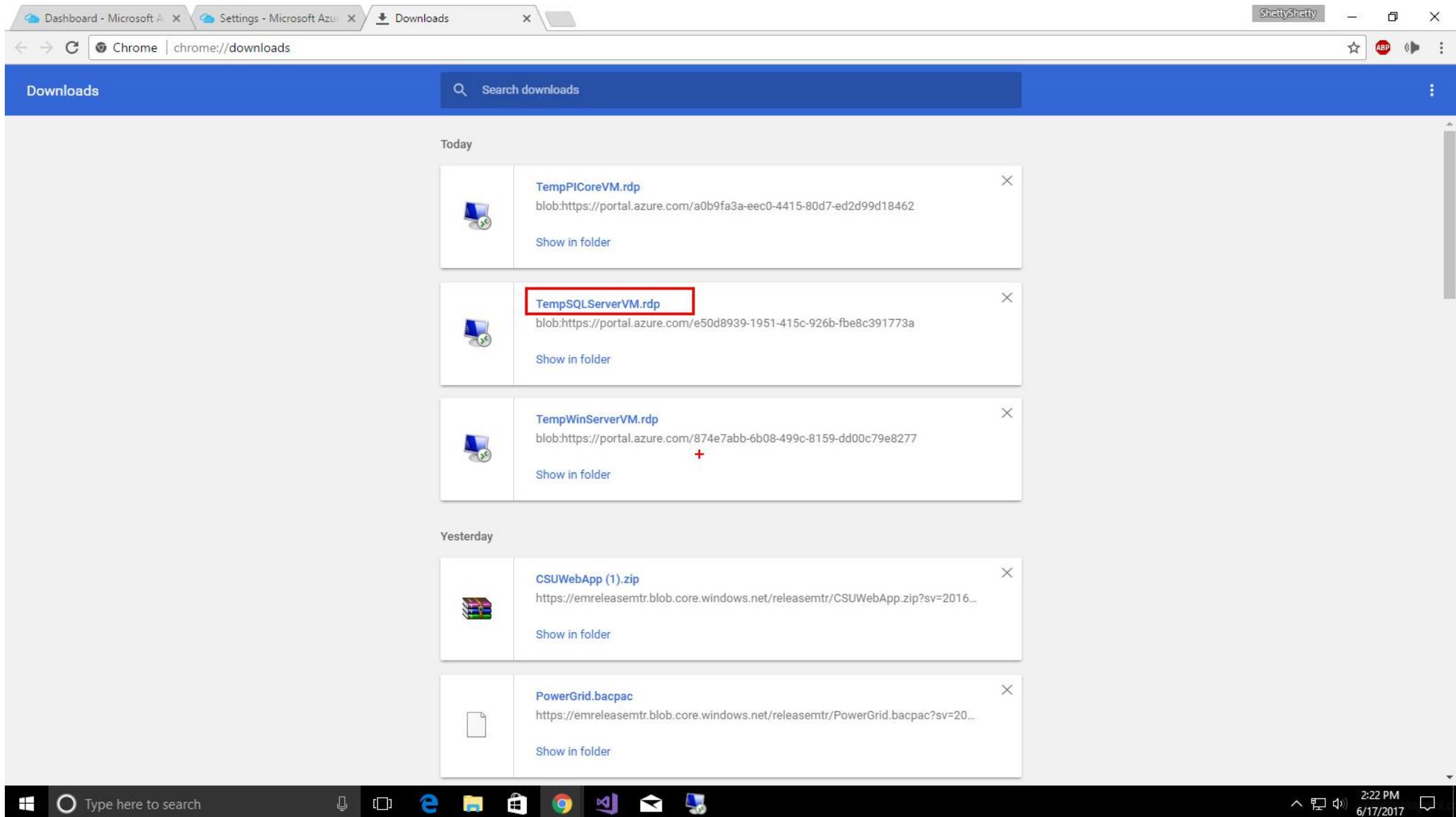
Disk bytes (total)

Disk operations/sec

Type here to search

2:15 PM 6/17/2017

## TEMPSQLSERVERVM - Login again to VM



Downloads

Search downloads

Today

- TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462  
[Show in folder](#)
- TempSQLServerVM.rdp  
blob:https://portal.azure.com/e50d8939-1951-415c-926b-fbe8c391773a  
[Show in folder](#)
- TempWinServerVM.rdp  
blob:https://portal.azure.com/874e7abb-6b08-499c-8159-dd00c79e8277  
[Show in folder](#)

Yesterday

- CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...  
[Show in folder](#)
- PowerGrid.bacpac  
https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...  
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Today

-  TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462  
[Show in folder](#)
-  Remote Desktop Connection  
**The publisher of this remote connection can't be identified. Do you want to connect anyway?**

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: Unknown publisher   Type: Remote Desktop Connection  
Remote computer: 52.161.12.93

Don't ask me again for connections to this computer

[Show Details](#)   [Connect](#)   [Cancel](#)

Yesterday

-  CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...  
[Show in folder](#)
-  PowerGrid.bacpac  
https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...  
[Show in folder](#)

Type here to search   4:58 PM   6/17/2017

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Downloads   Search downloads

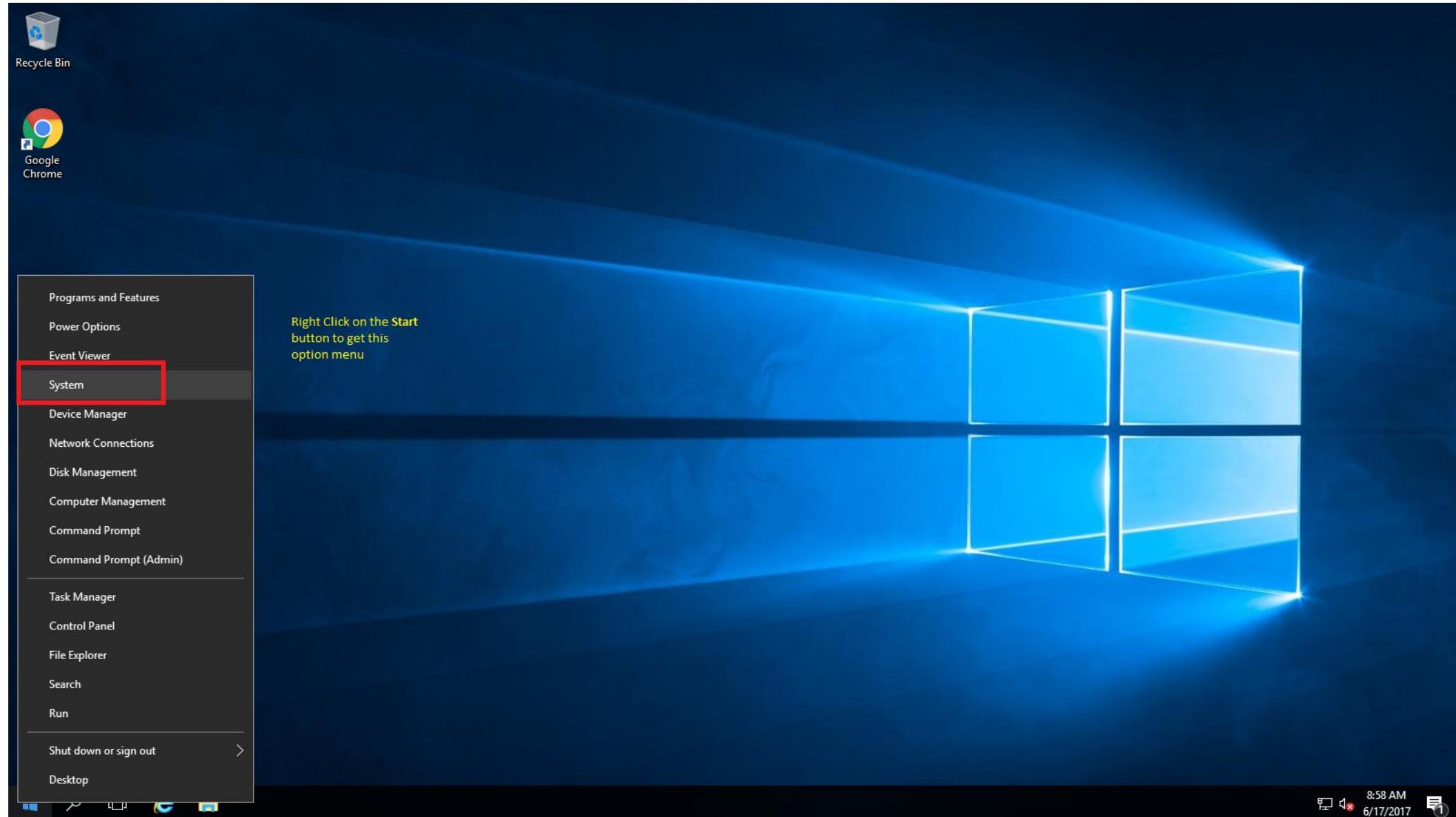
Today

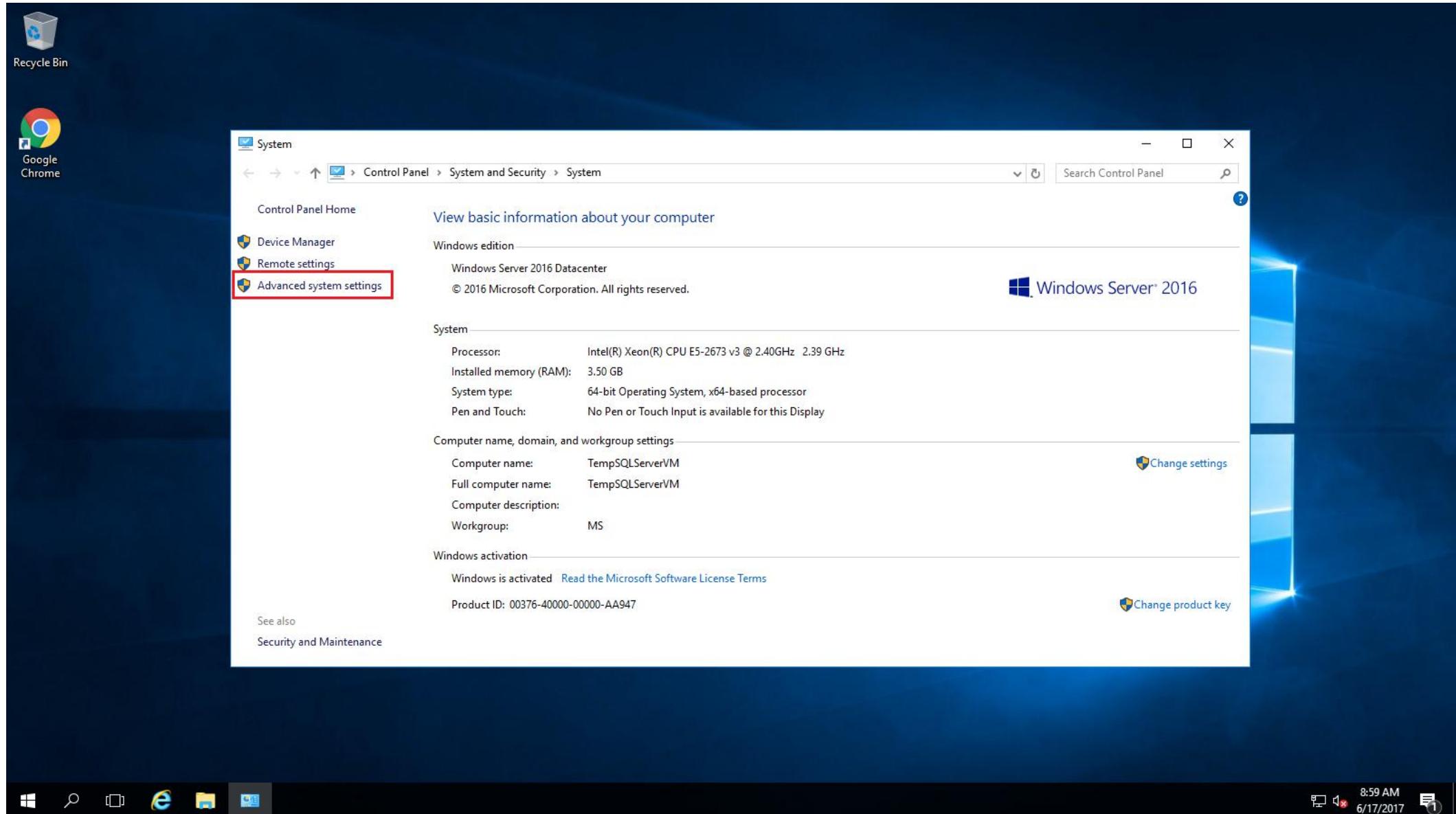
-  TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462
-  Windows Security  
Enter your credentials  
These credentials will be used to connect to 52.161.12.93.  
adminuser  
 [REDACTED]  
 Remember me  
[More choices](#)  
OK   Cancel
-  CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...  
[Show in folder](#)
-  PowerGrid.bacpac  
https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...  
[Show in folder](#)

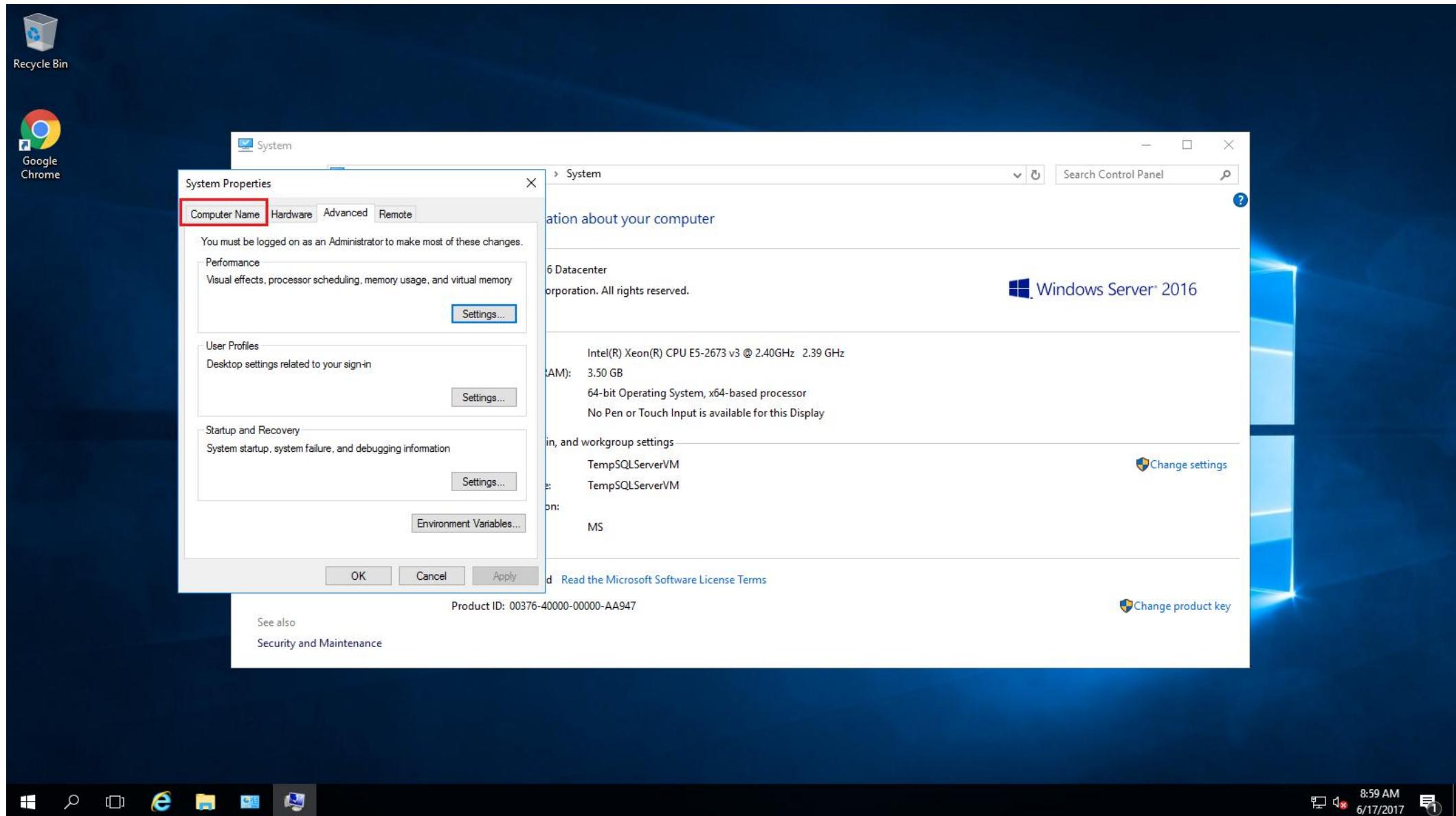
Yesterday

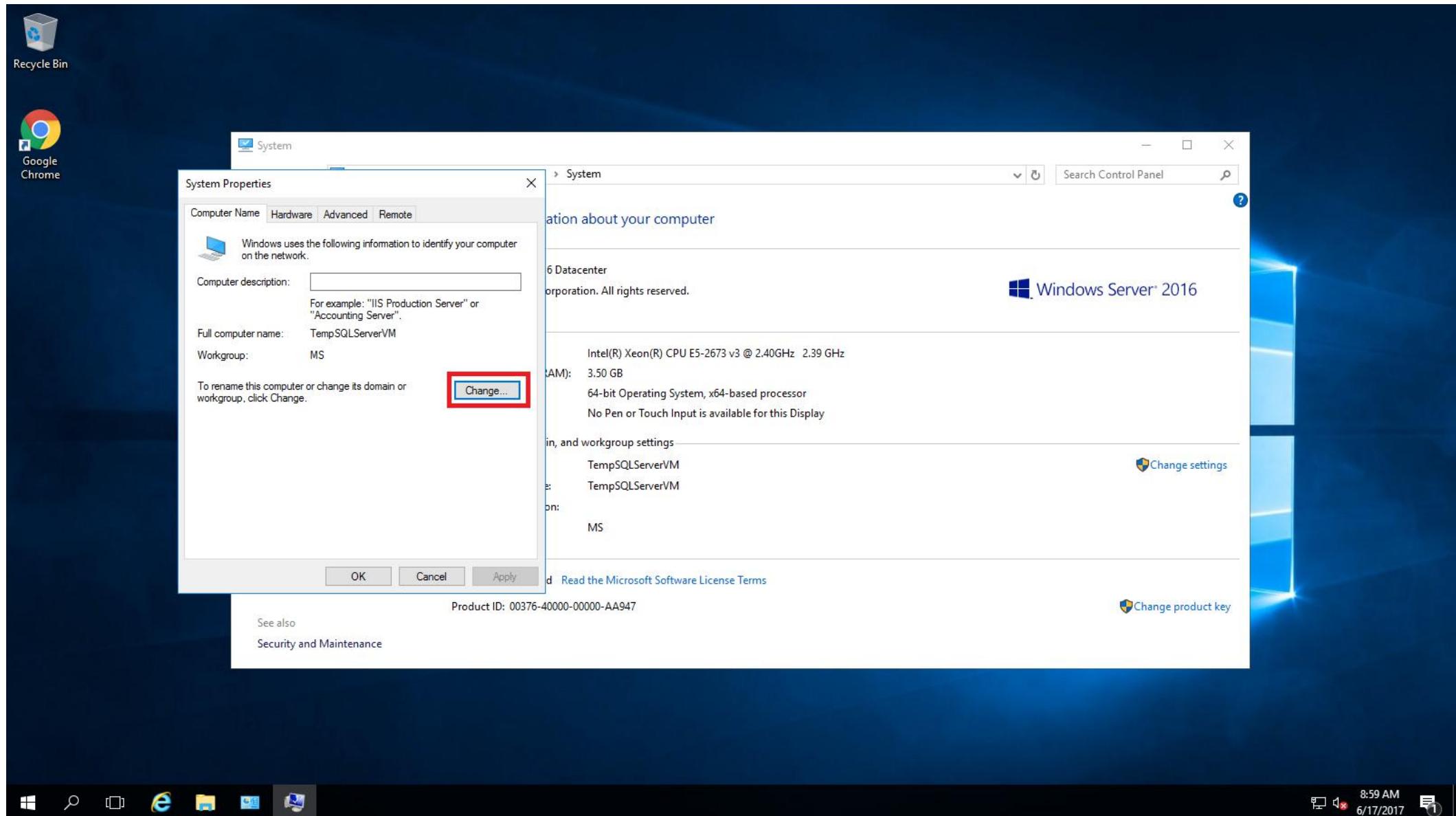
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# TEMPSQLSERVERVM - Adding domain name

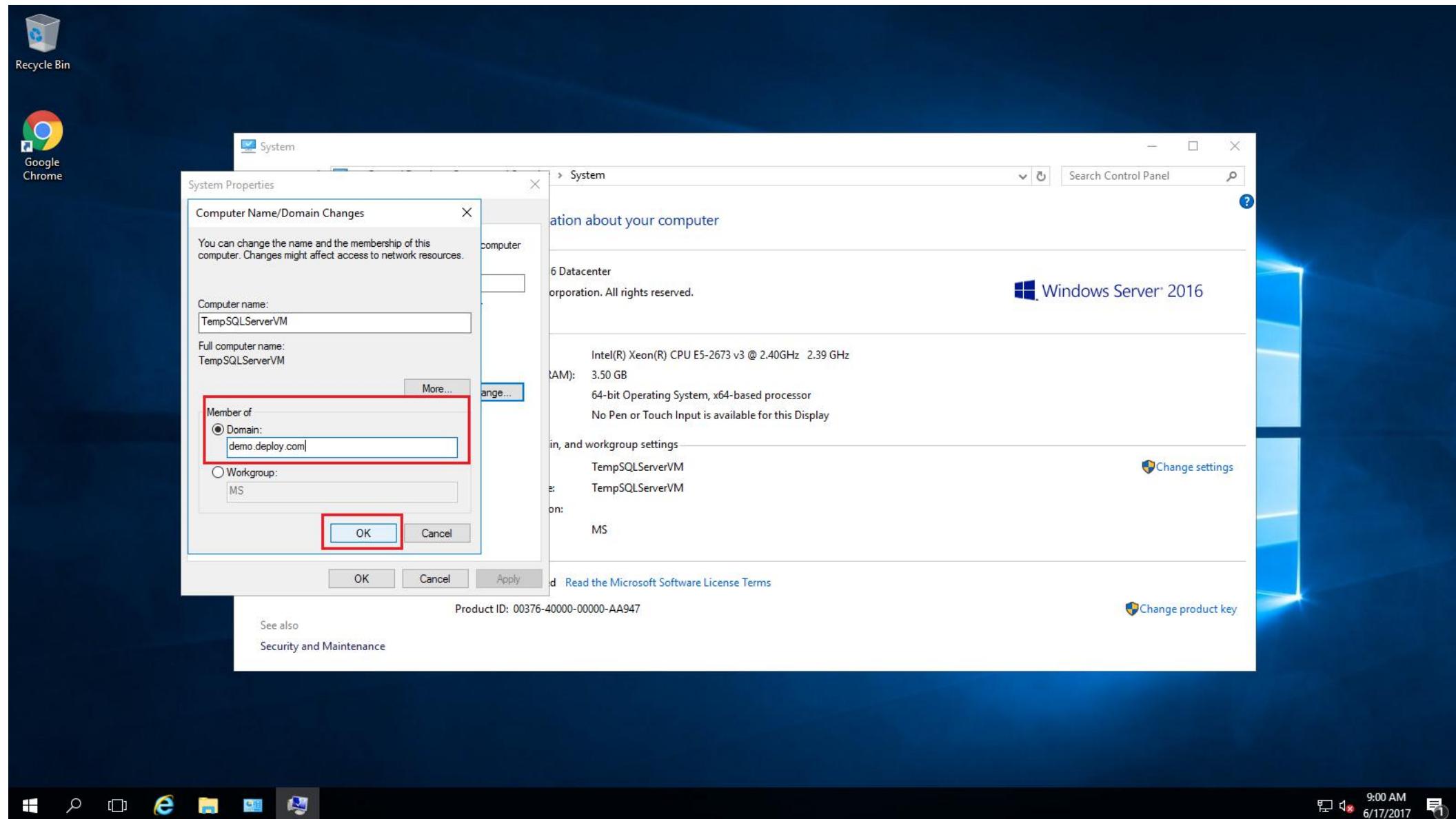




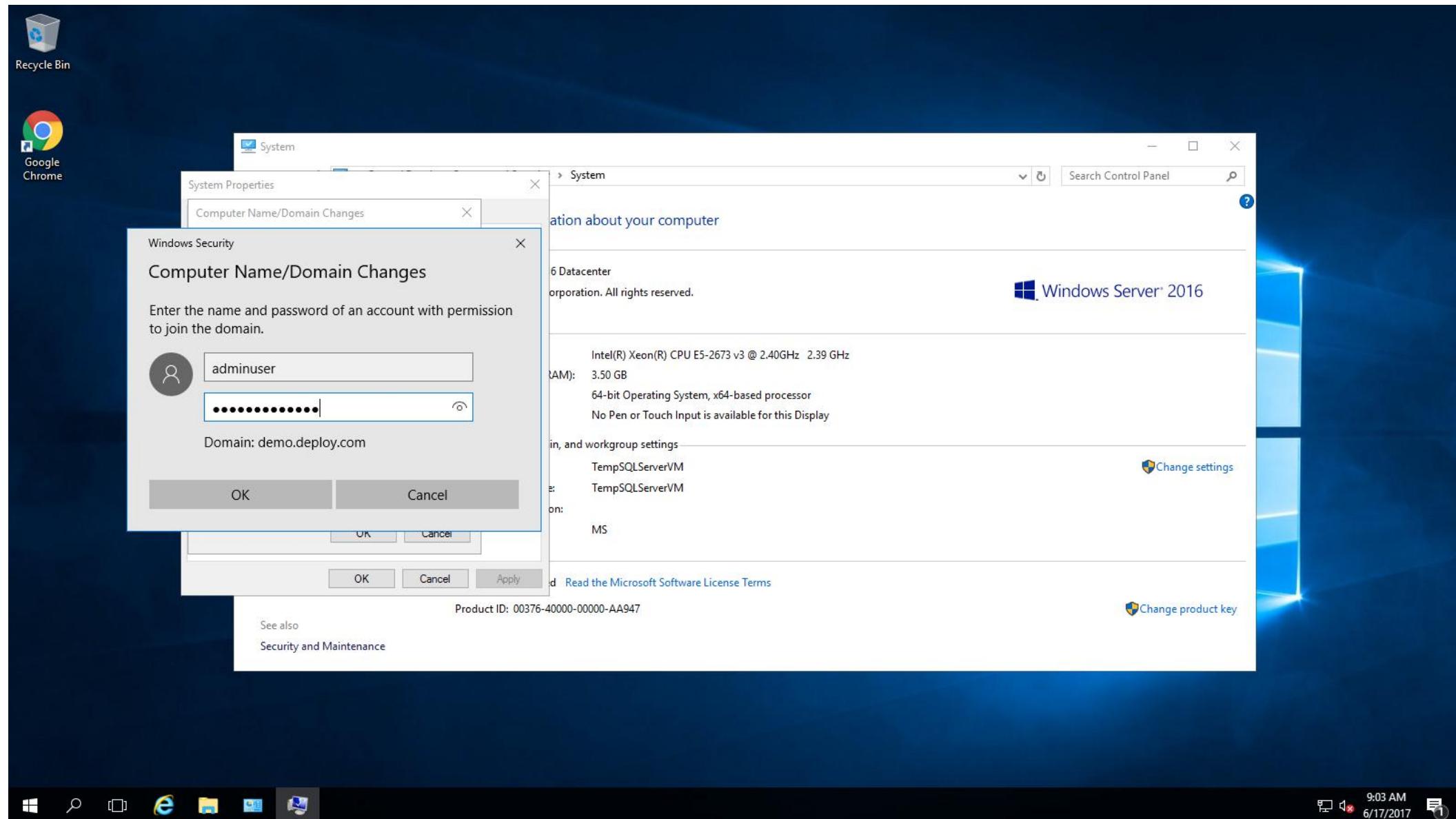


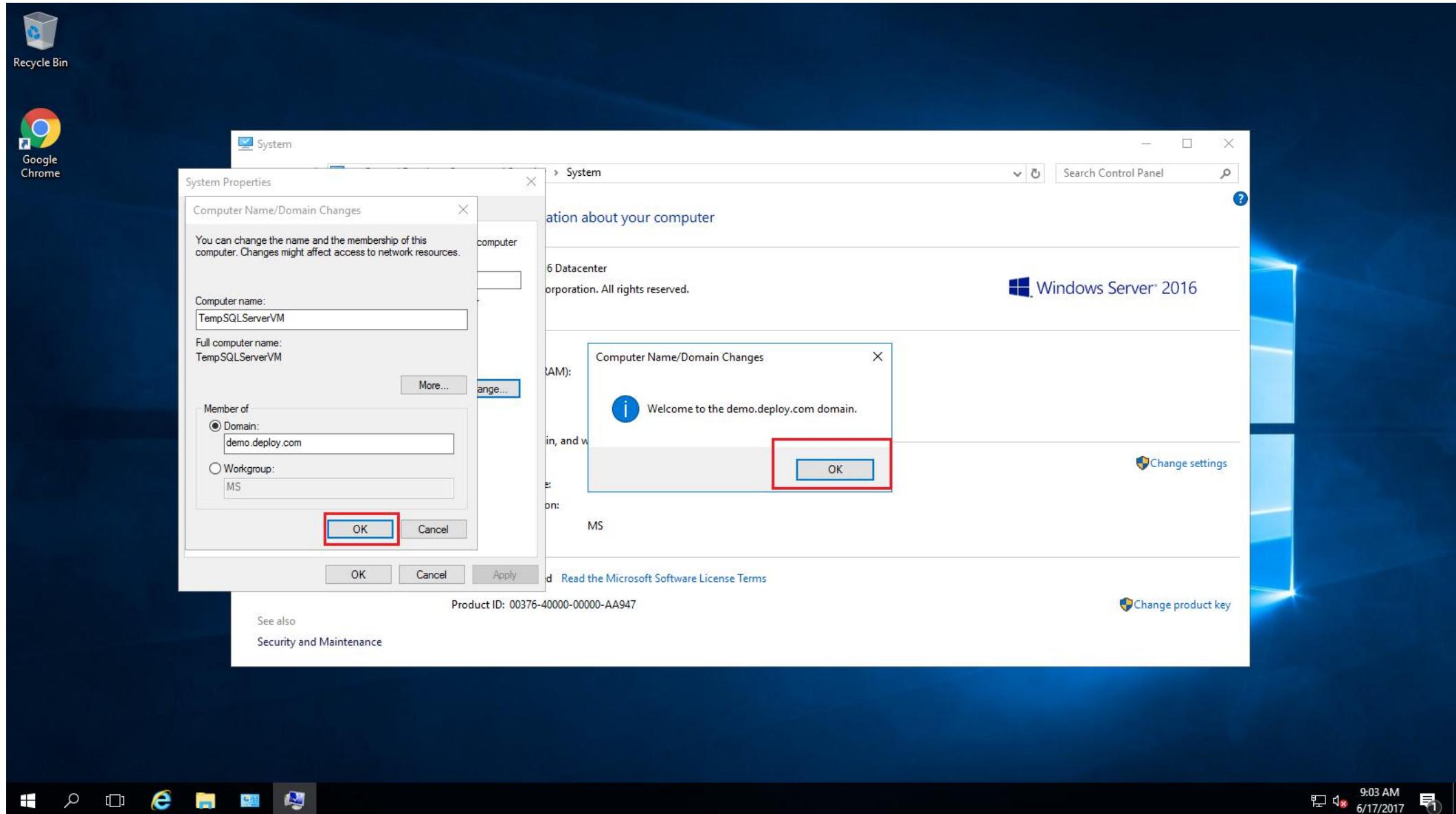


# TEMPSQLSERVERVM - Update the domain and save.

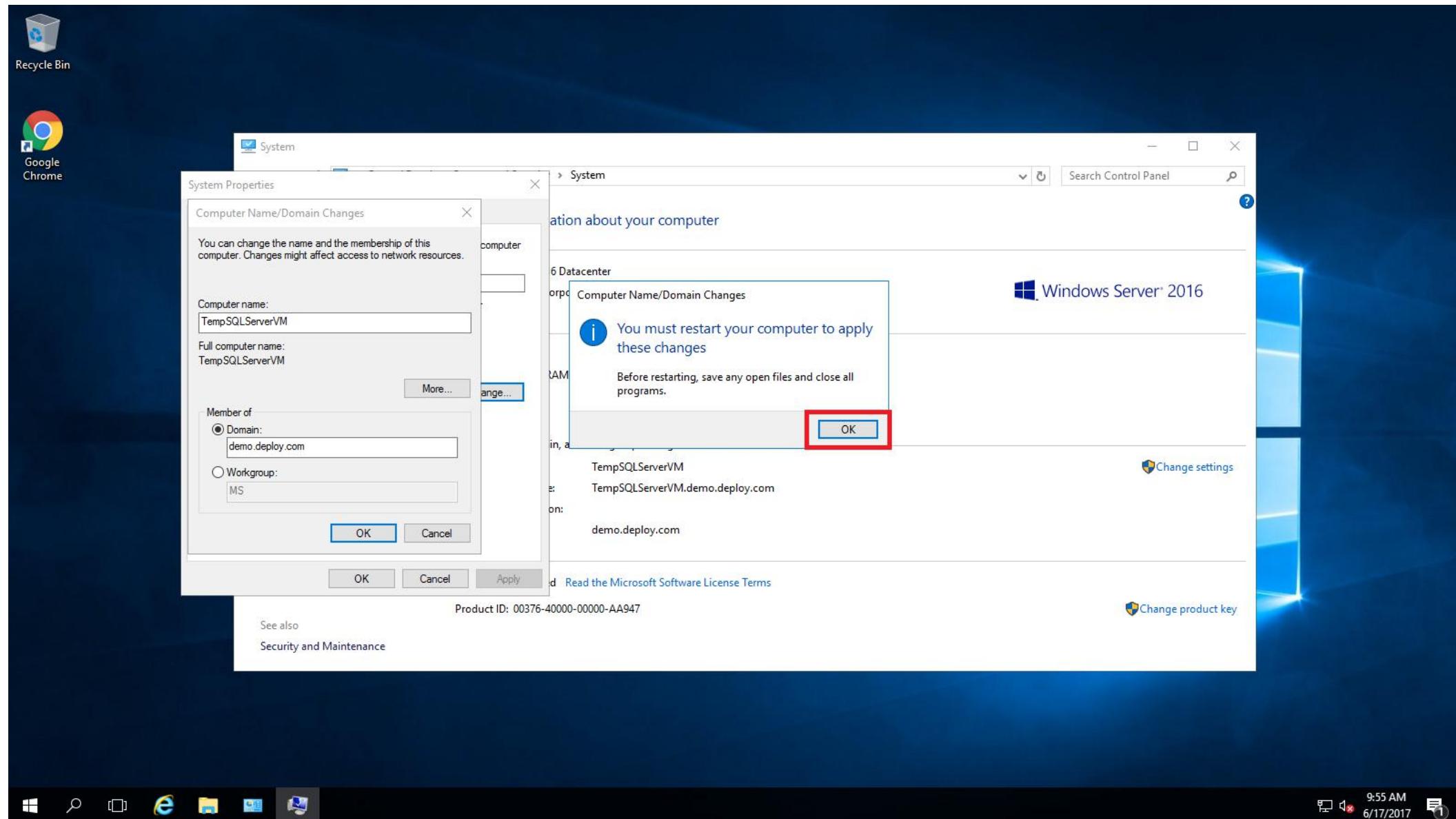


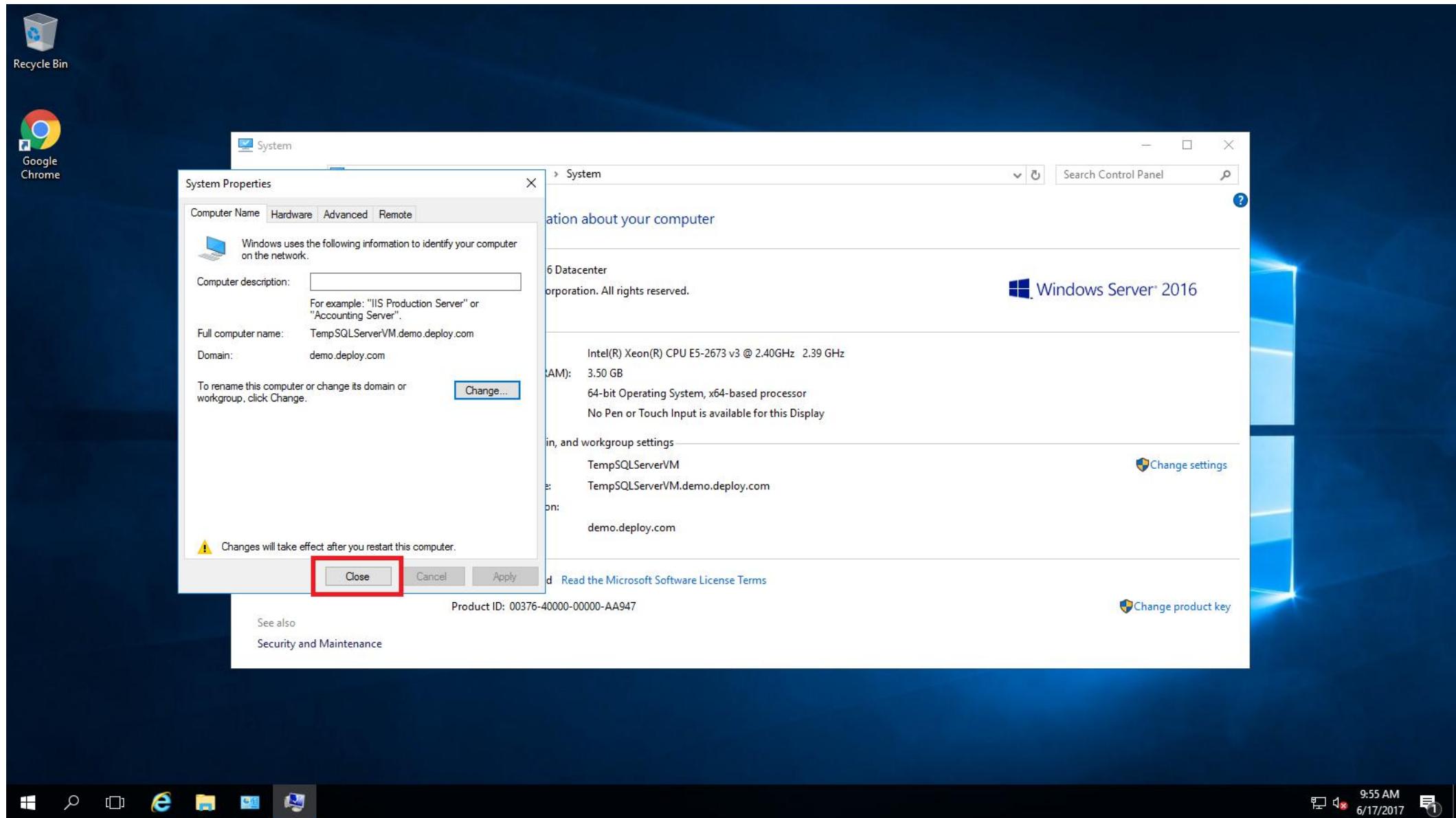
# TEMPSQLSERVERVM - Enter admin username and password

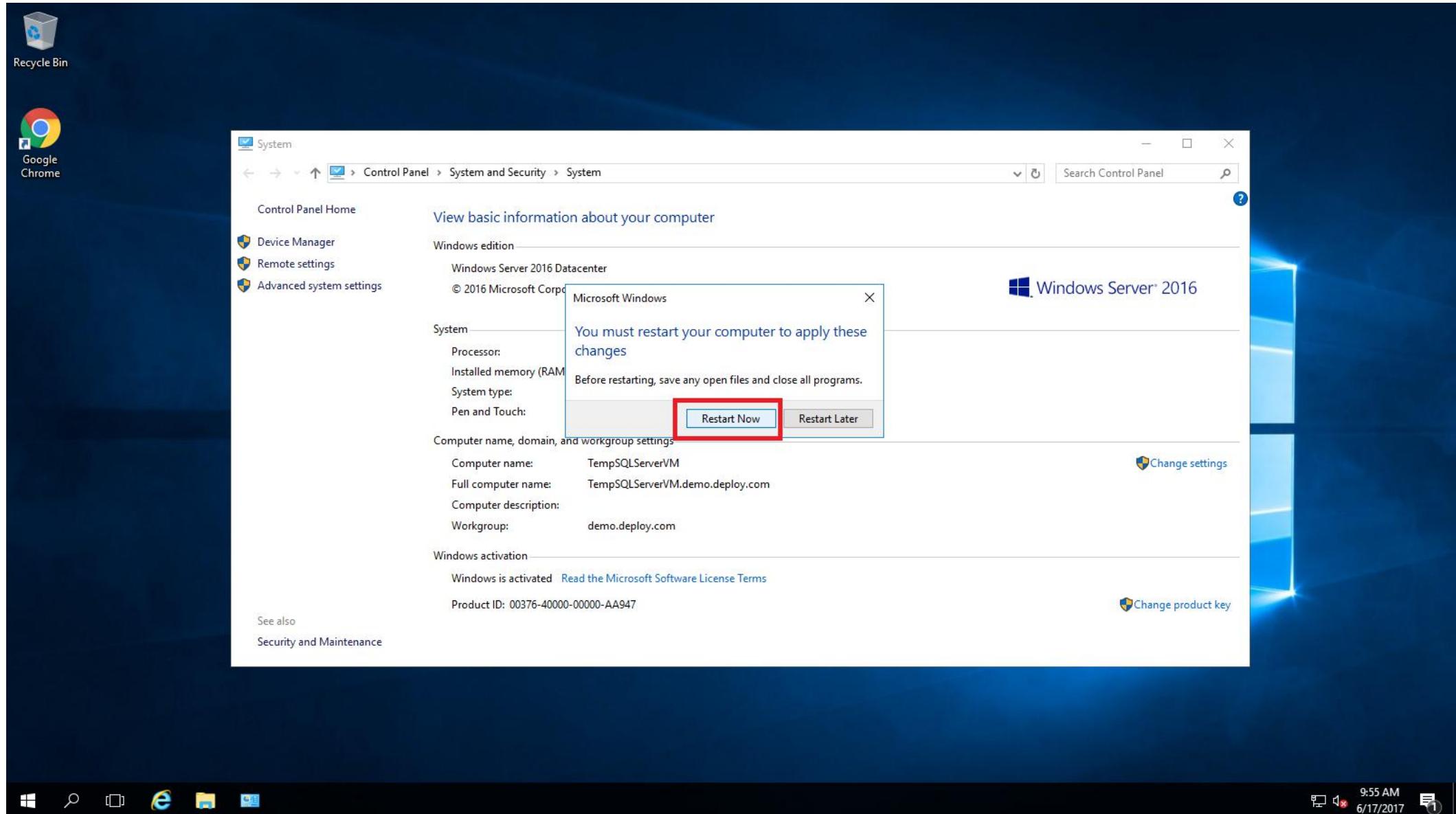




# TEMPSQLSERVERVM - Restart VM is required.







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Downloads   Search downloads

Today

-  TempPICoreVM.rdp  
blob:<https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462>  
[Show in folder](#)
-  TempSQLServerVM.rdp  
blob:<https://portal.azure.com/e50d8939-1951-415c-926b-fbe8c391773a>  
[Show in folder](#)
-  TempWinServerVM.rdp  
blob:<https://portal.azure.com/874e7abb-6b08-499c-8159-dd00c79e8277>  
[Show in folder](#)

Yesterday

-  CSUWebApp (1).zip  
<https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...>  
[Show in folder](#)
-  PowerGrid.bacpac  
<https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...>  
[Show in folder](#)

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Today

-  TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462  
[Show in folder](#)
-  Remote Desktop Connection  
**The publisher of this remote connection can't be identified. Do you want to connect anyway?**

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: Unknown publisher   Type: Remote Desktop Connection  
Remote computer: 52.161.12.93

Don't ask me again for connections to this computer

[Show Details](#)   [Connect](#)   [Cancel](#)

Yesterday

-  CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...  
[Show in folder](#)
-  PowerGrid.bacpac  
https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...  
[Show in folder](#)

Type here to search   4:58 PM   6/17/2017

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Downloads   Search downloads

Today

TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462

Windows Security

Enter your credentials

These credentials will be used to connect to 52.161.12.93.

adminuser  
[REDACTED]

Remember me

More choices

OK   Cancel

Yesterday

CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...

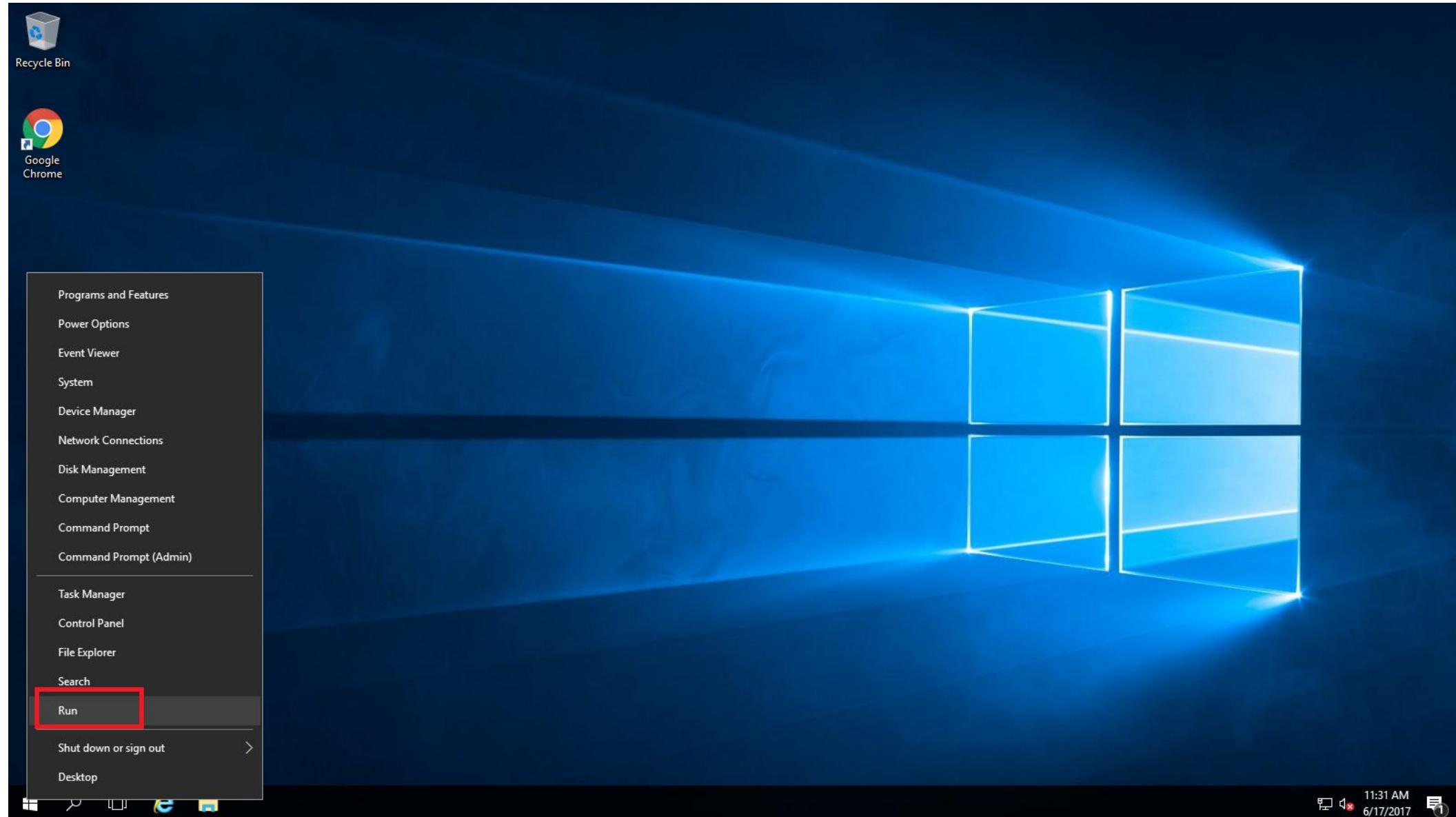
Show in folder

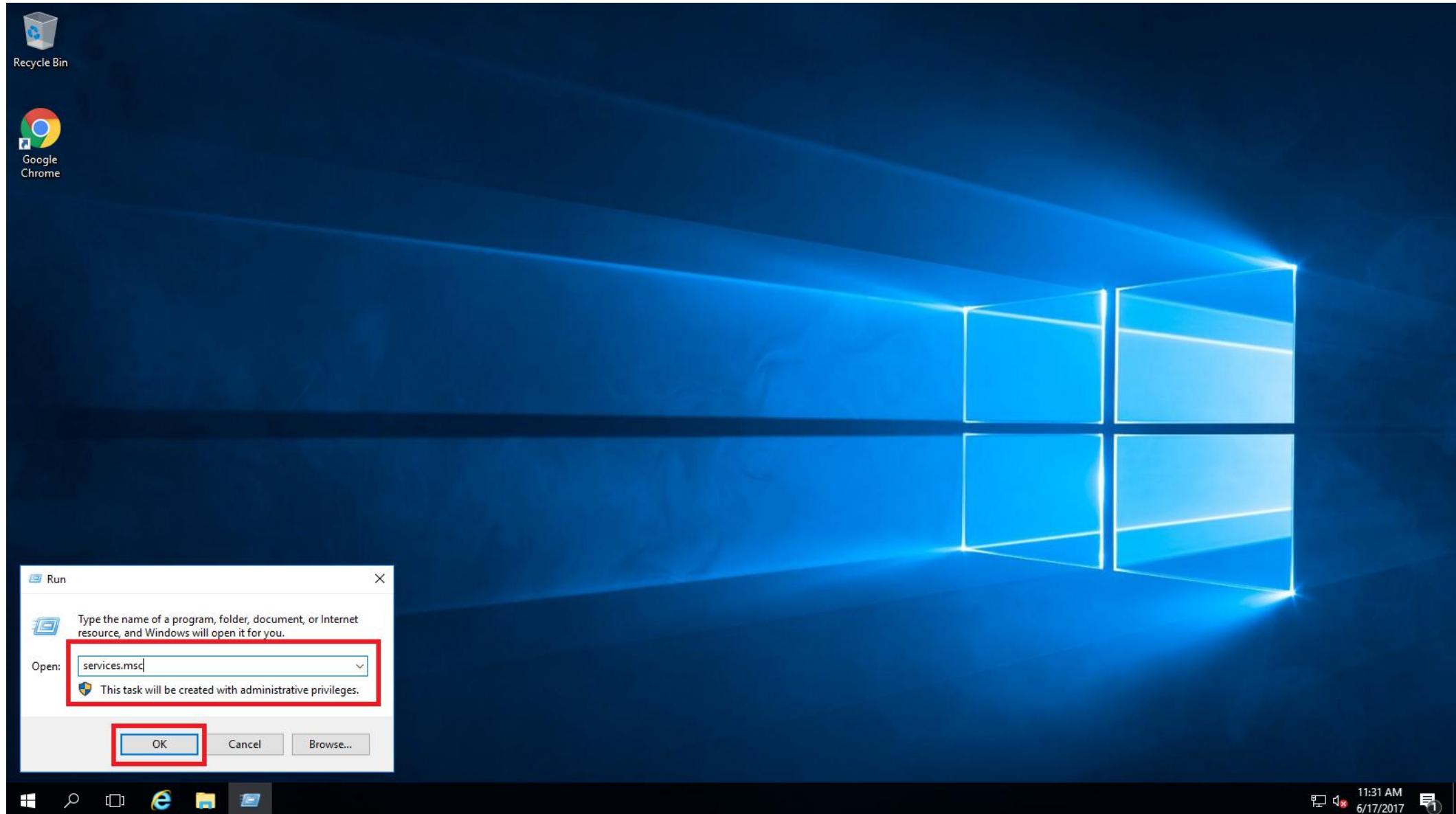
PowerGrid.bacpac  
https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...

Show in folder

Type here to search   4:58 PM 6/17/2017

# TEMPSQLSERVERVM - Verifying PI services are running





**Services**

File Action View Help

Services (Local)

**PI AF Application Service**

Stop the service  
Restart the service

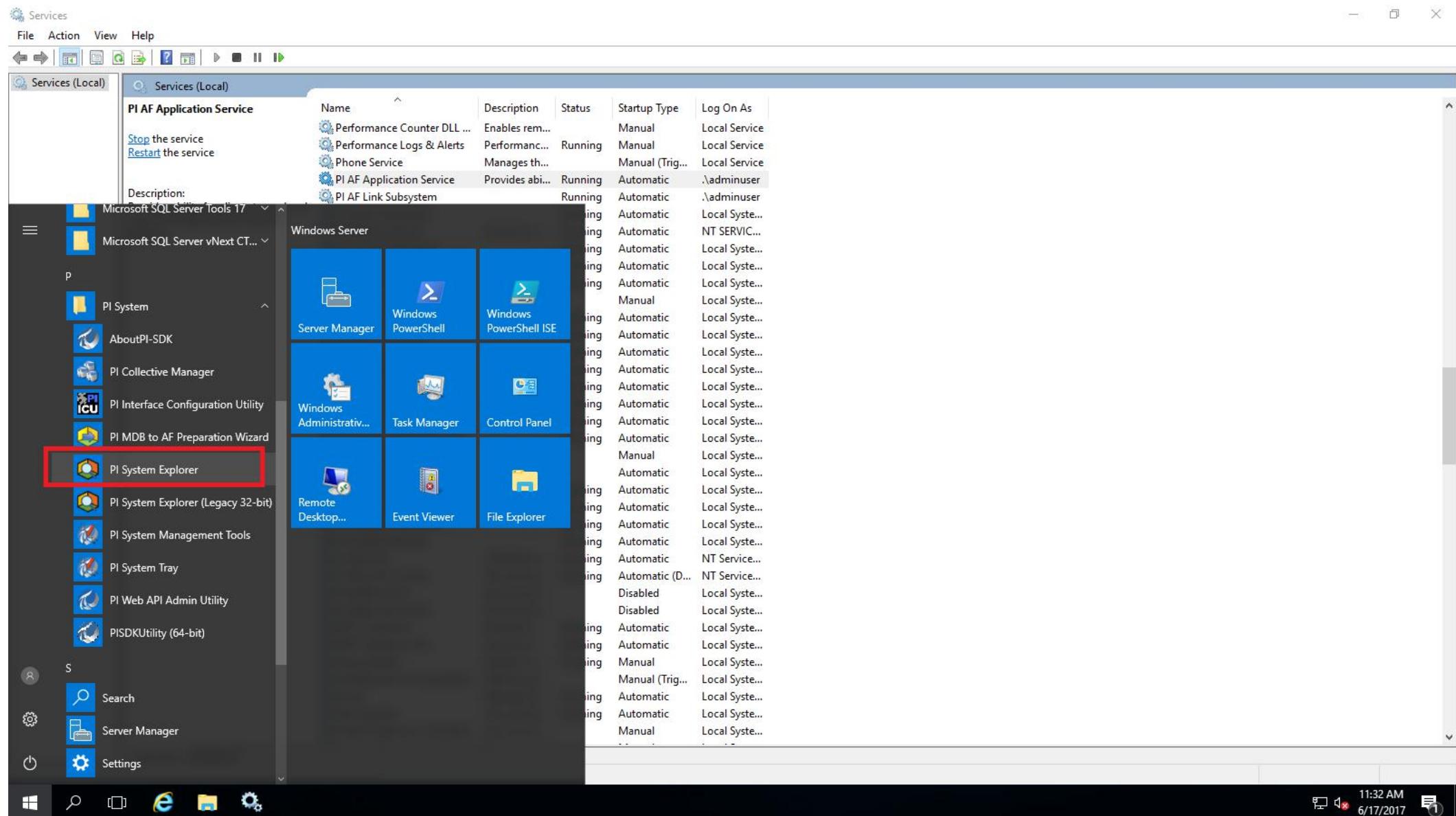
Description:  
Provides ability for clients to read and write PI AF data stored in the SQL database.

Name	Description	Status	Startup Type	Log On As
PI AF Application Service	Provides abi...	Running	Automatic	\Administrator
PI AF Link Subsystem		Running	Automatic	\Administrator
PI Alarm Subsystem		Running	Automatic	Local Syste...
PI Analysis Service	Service to r...	Running	Automatic	NT SERVIC...
PI Archive Subsystem		Running	Automatic	Local Syste...
PI Backup Subsystem		Running	Automatic	Local Syste...
PI Base Subsystem		Running	Automatic	Local Syste...
PI Batch Generator Interface		Manual	Local Syste...	
PI Batch Subsystem		Running	Automatic	Local Syste...
PI Buffer Subsystem		Running	Automatic	Local Syste...
PI License Manager		Running	Automatic	Local Syste...
PI Message Subsystem		Running	Automatic	Local Syste...
PI Network Manager		Running	Automatic	Local Syste...
PI Performance Equation Sc...		Running	Automatic	Local Syste...
PI Ramp Soak Simulator (rand...		Running	Automatic	Local Syste...
PI Random Simulator (rand...		Running	Automatic	Local Syste...
PI Recalculator Subsystem		Manual	Local Syste...	
PI Shutdown Subsystem		Automatic	Local Syste...	
PI Snapshot Subsystem		Running	Automatic	Local Syste...
PI SQL Subsystem		Running	Automatic	Local Syste...
PI Totalizer Subsystem		Running	Automatic	Local Syste...
PI Update Manager		Running	Automatic	Local Syste...
PI Web API	A RESTful A...	Running	Automatic	NT Service...
PI Web API Crawler	This service ...	Running	Automatic (D...)	NT Service...
PI-Buffer Server	Service to b...	Disabled	Local Syste...	
PI-Buffer Server x64	Service to b...	Disabled	Local Syste...	
PIPC Log Server	Service to ...	Running	Automatic	Local Syste...
PIPC Log Server x64	Service to ...	Running	Automatic	Local Syste...
Plug and Play	Enables a c...	Running	Manual	Local Syste...
Portable Device Enumerator...	Enforces gr...		Manual (Trig...	Local Syste...
Power	Manages p...	Running	Automatic	Local Syste...
Print Spooler	This service ...	Running	Automatic	Local Syste...
Printer Extensions and Notif...	This service ...	Manual	Local Syste...	

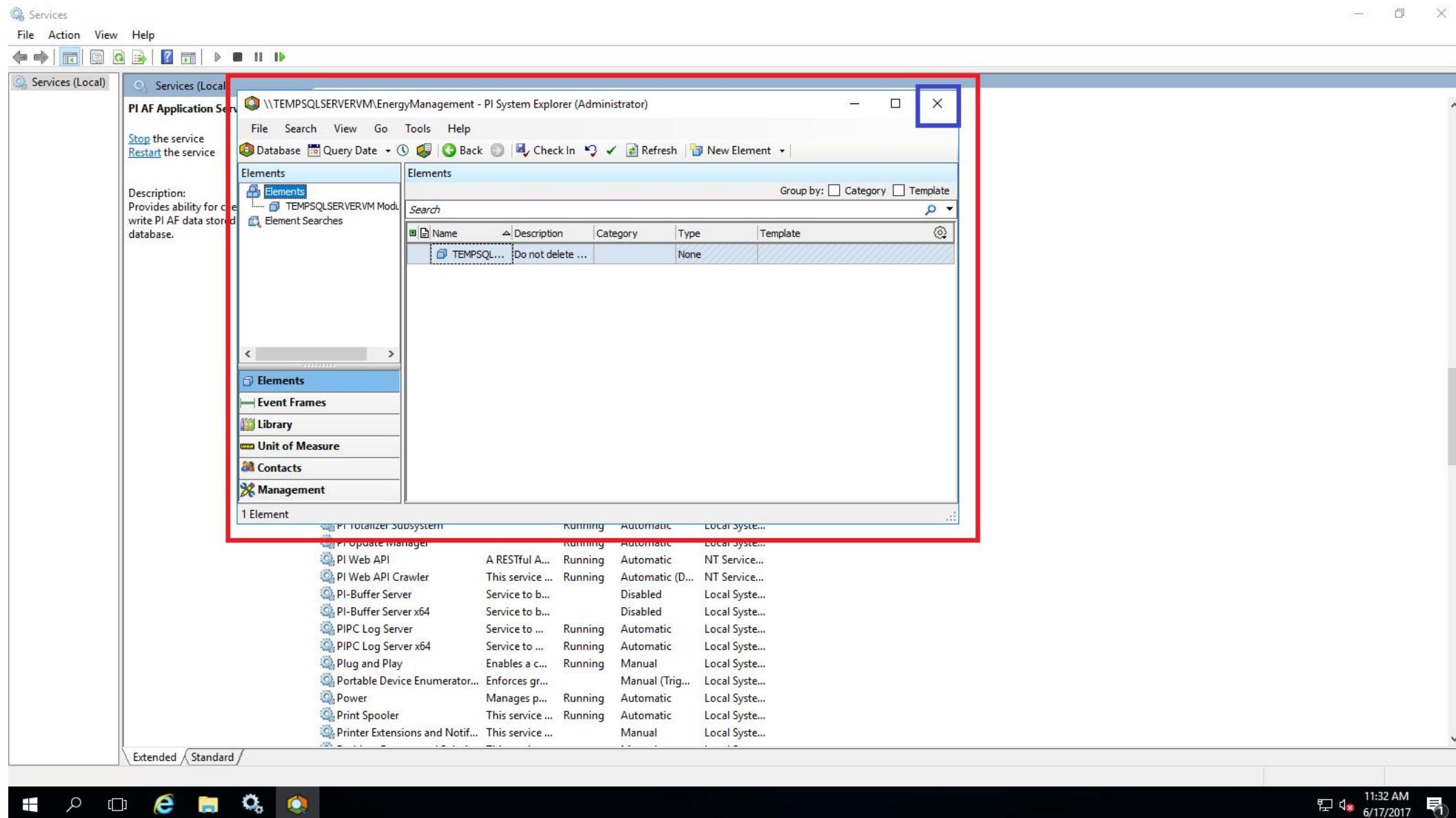
Extended Standard

11:31 AM 6/17/2017

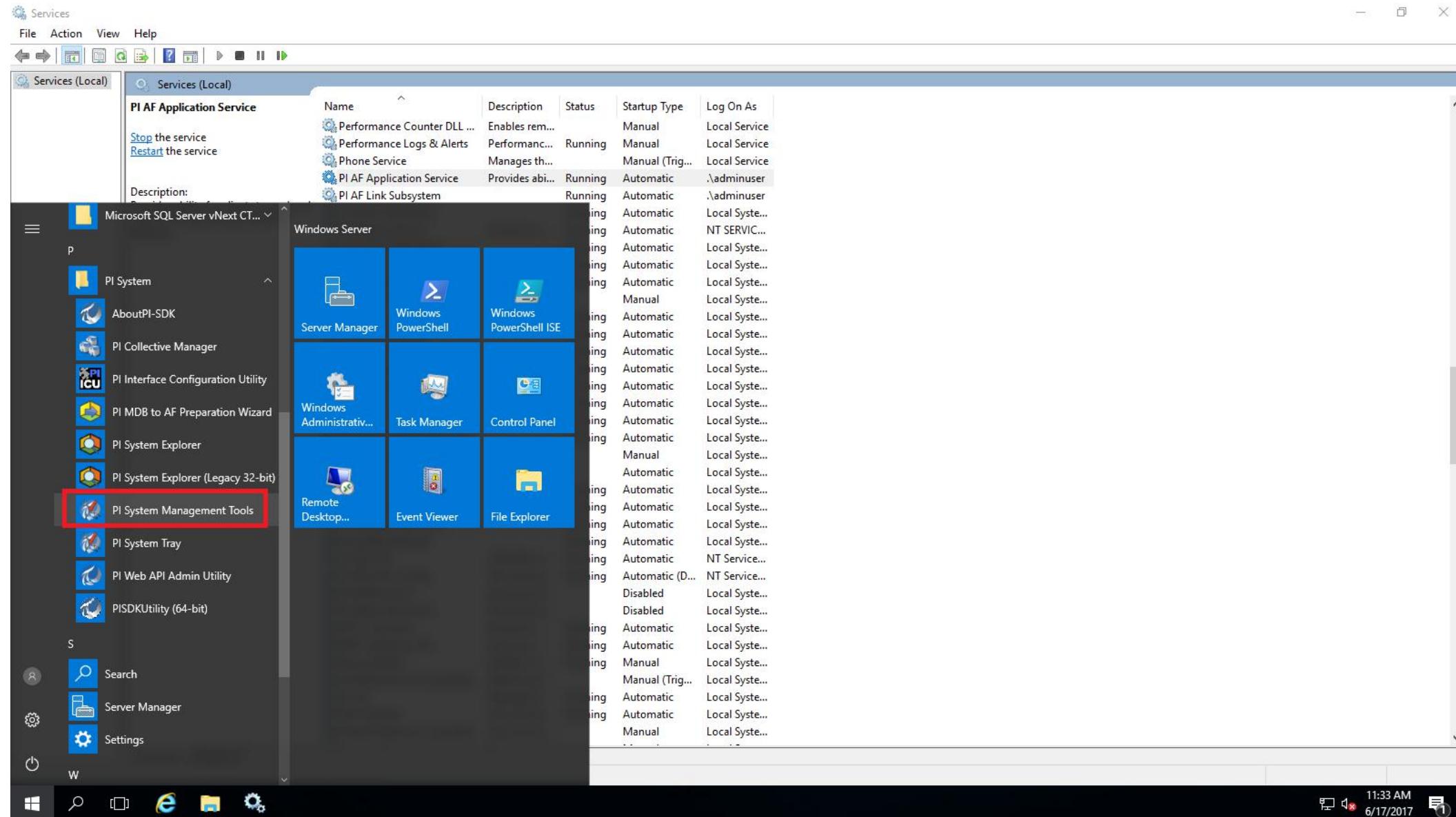
**Check if all the PI services are running**



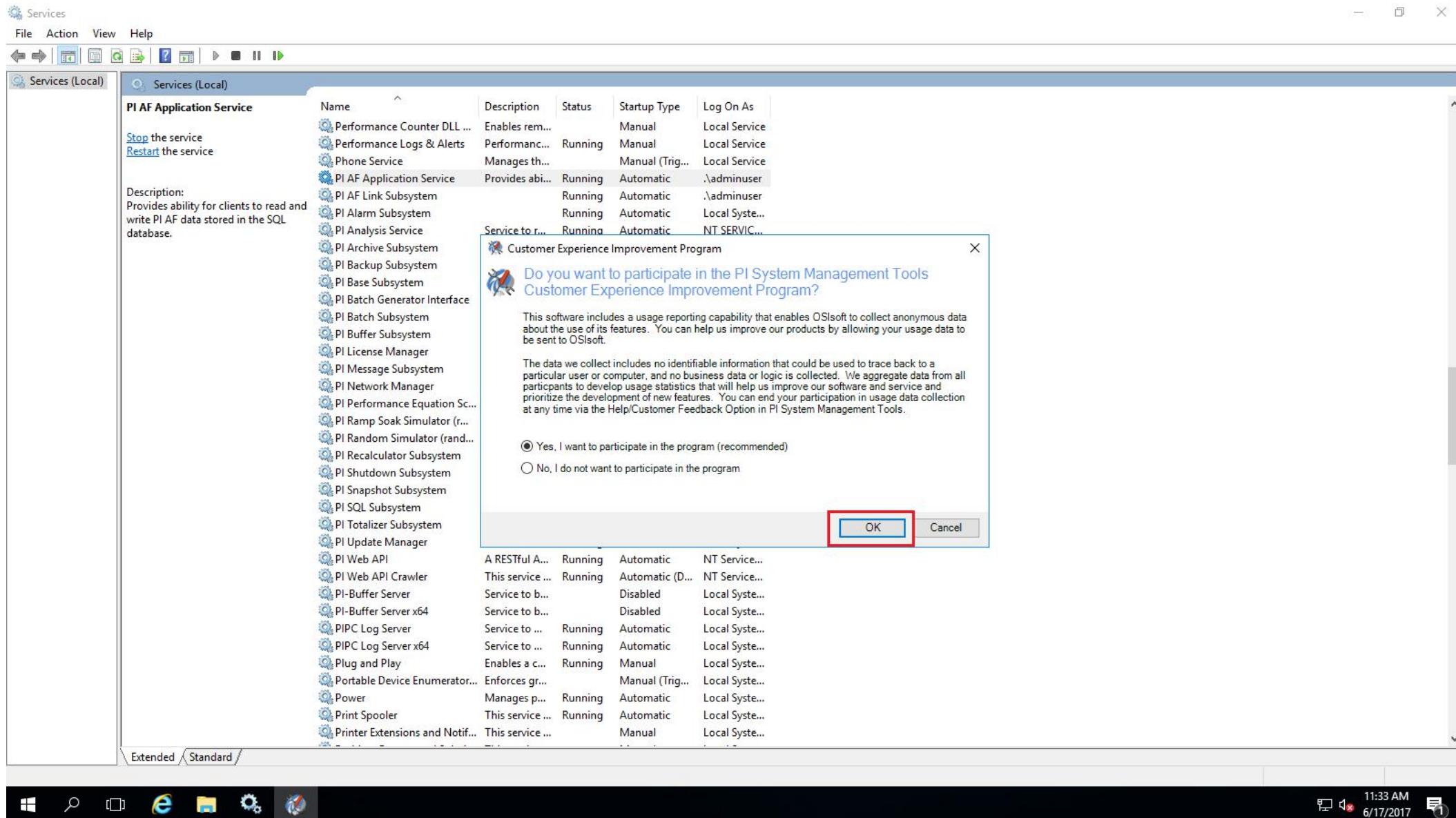
# TEMPSQLSERVERVM - Verifying PI System Explorer Access



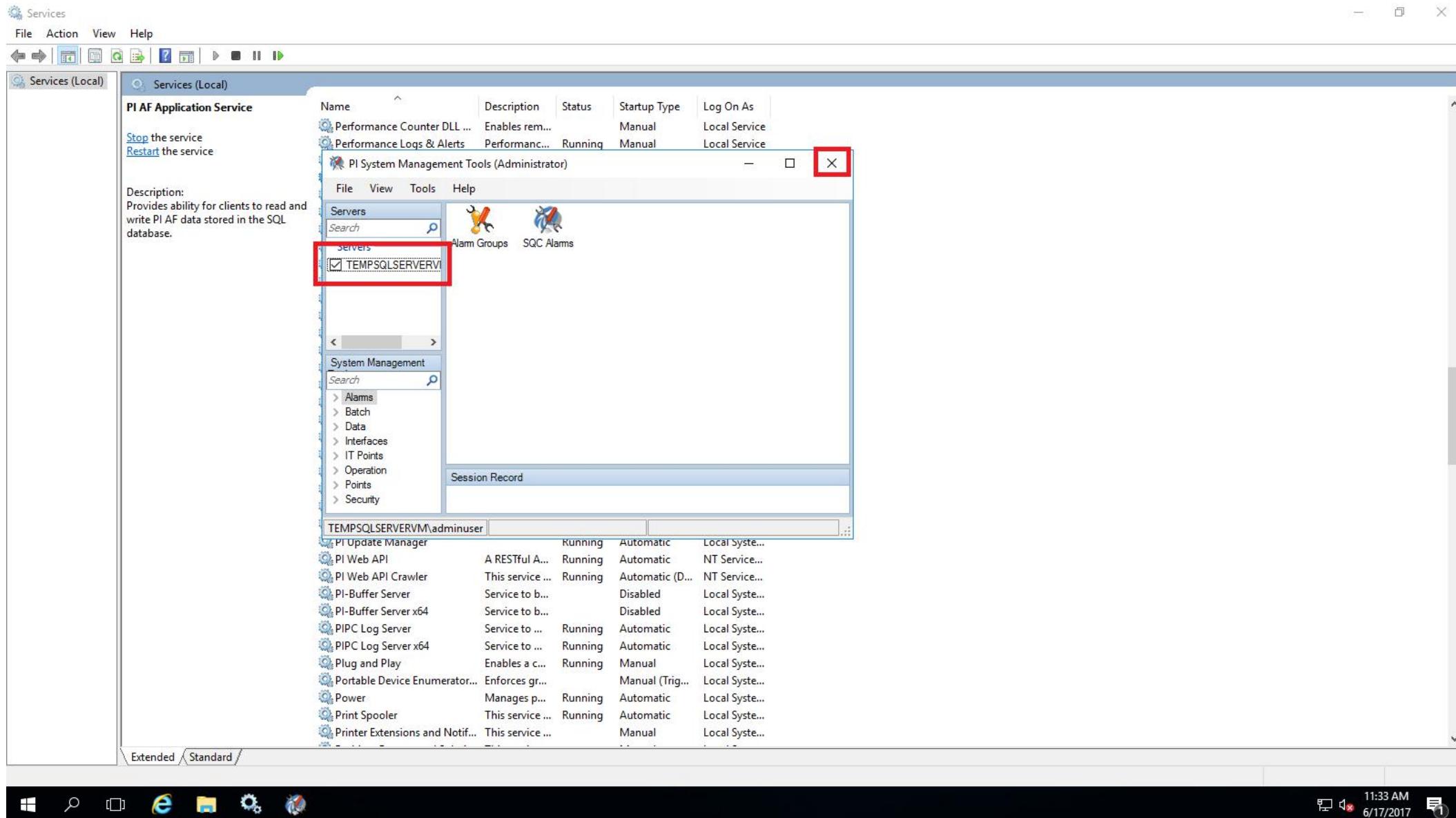
# TEMPSQLSERVERVM - Verifying PI System Management Tools



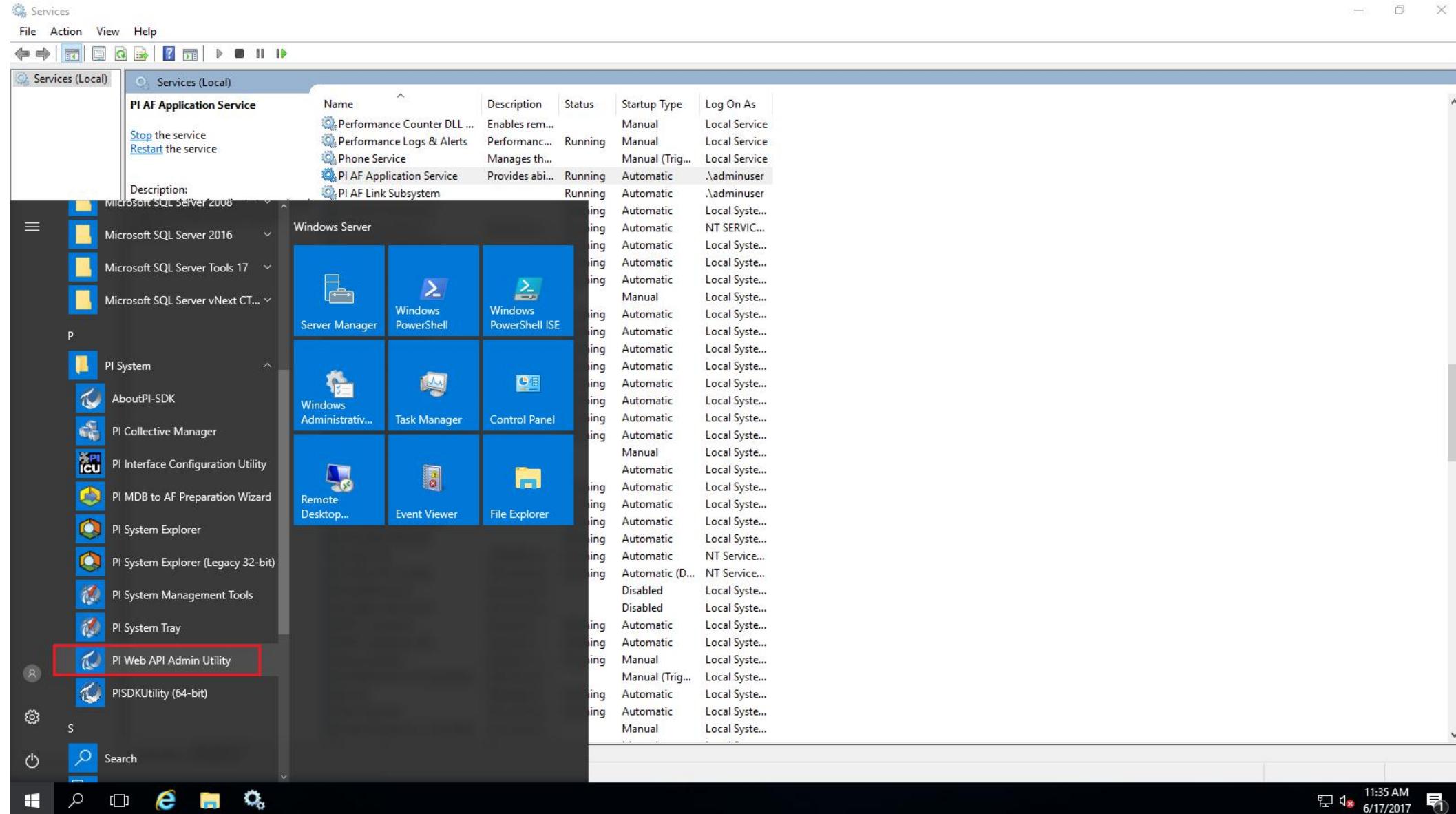
## TEMPSQLSERVERVM - Click Yes and continue.

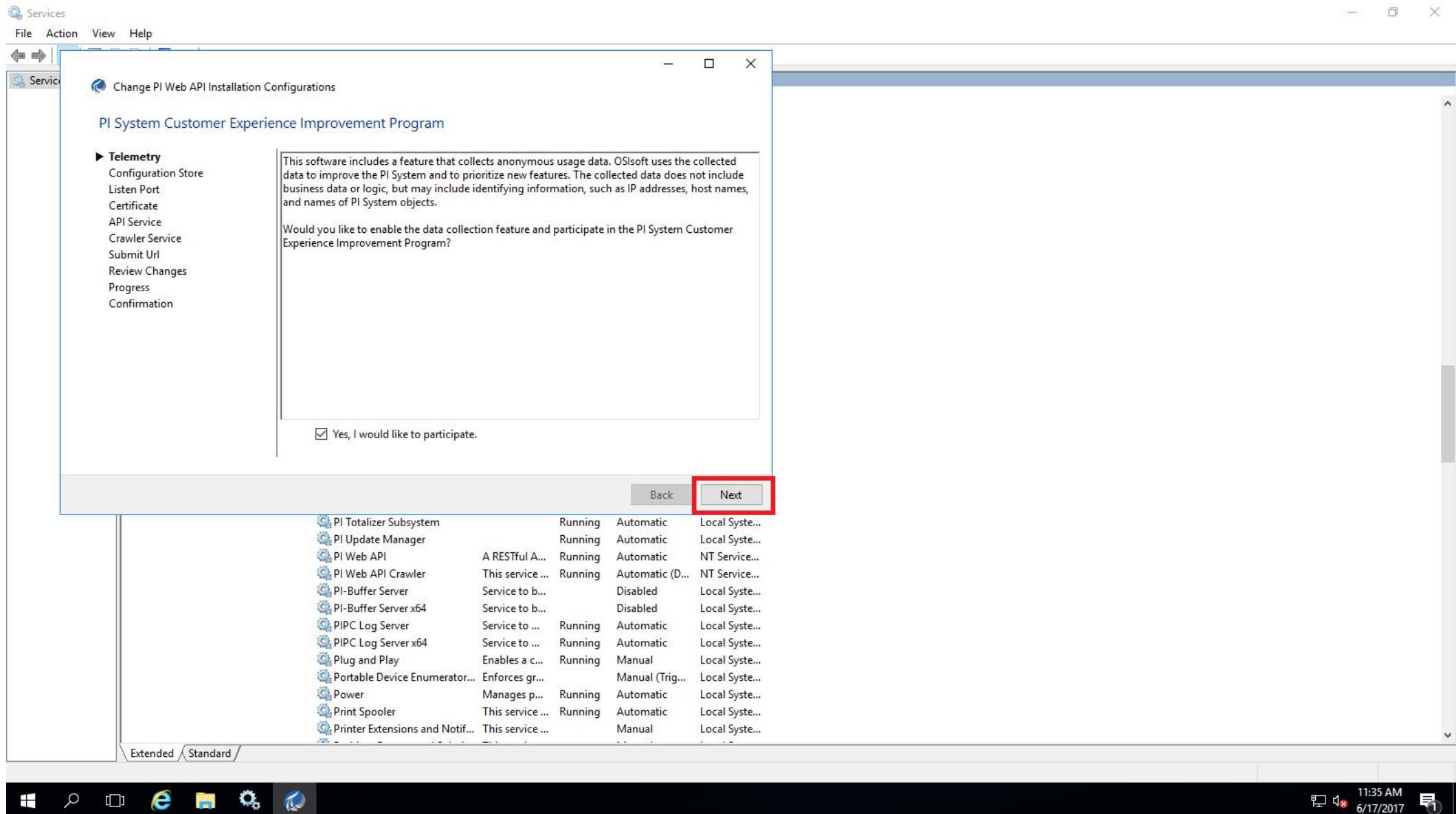


# TEMPSQLSERVERVM - Check Server check box.

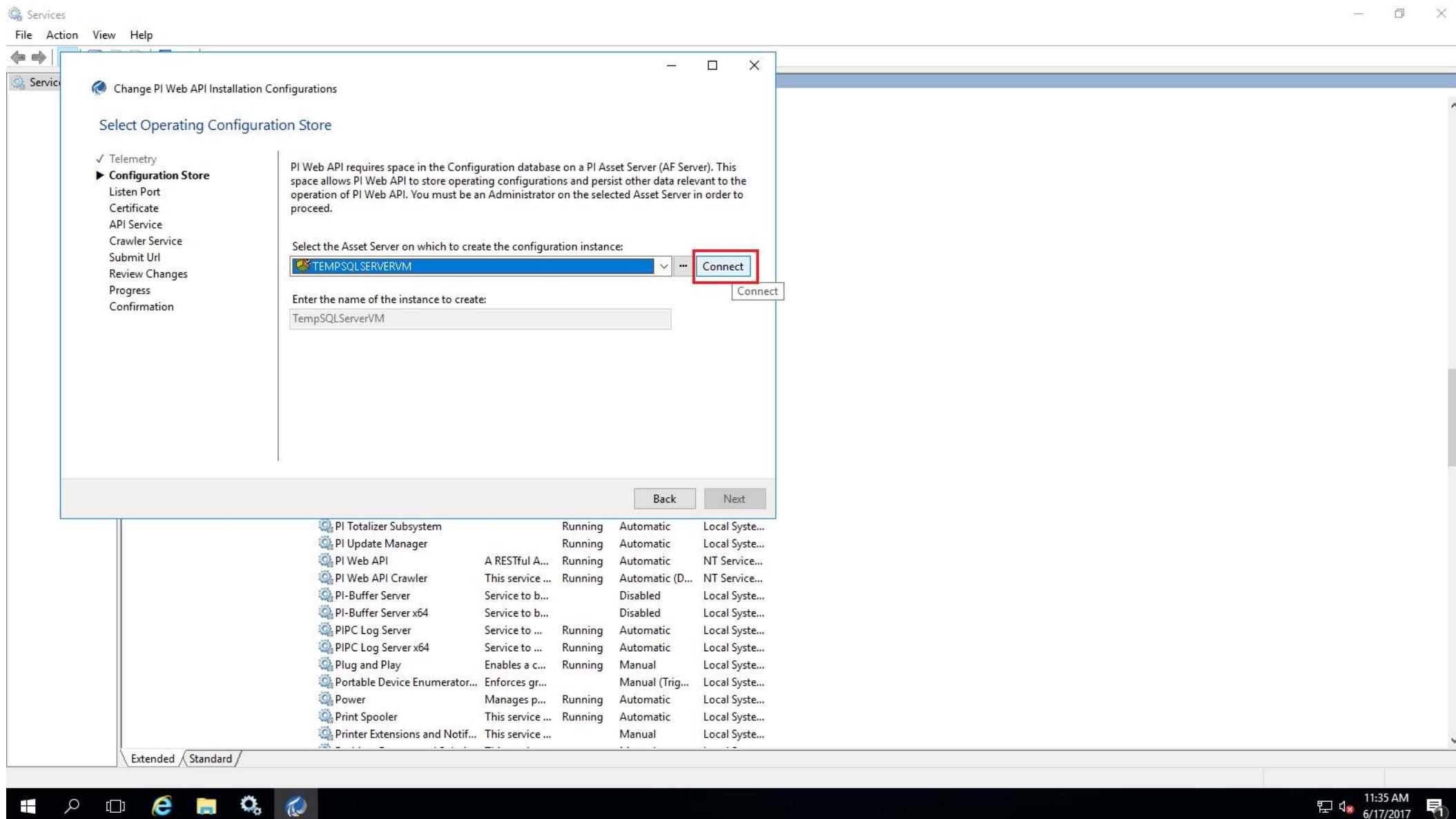


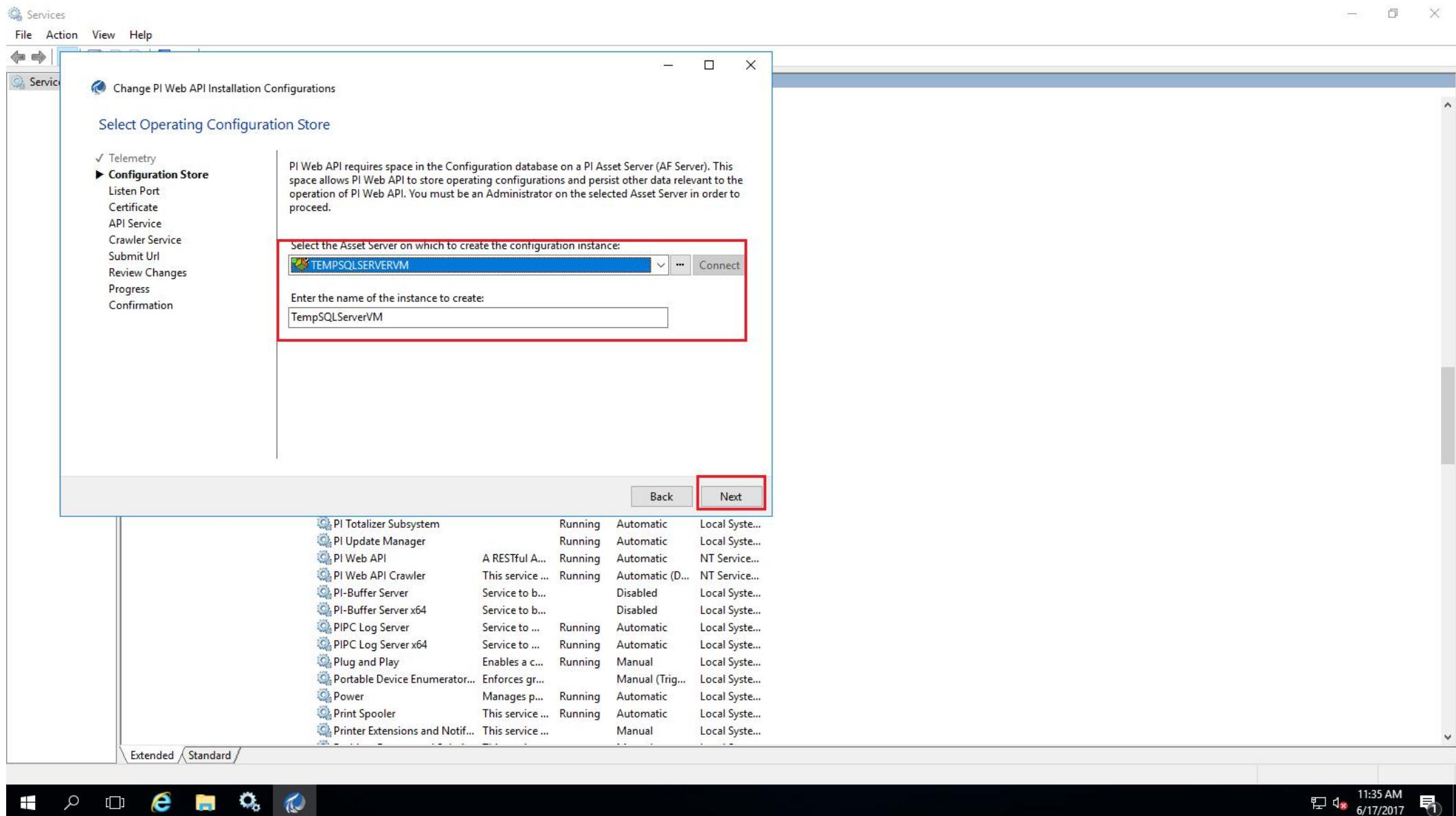
# TEPMYSQLSERVERVM - Configure PI Web API Utility





# TEPMYSQLSERVERVM - Click on connect. Do not change instance name





Services

File Action View Help

Services

Change PI Web API Installation Configurations

Select Communication Port

✓ Telemetry  
✓ Configuration Store  
► Listen Port  
Certificate  
API Service  
Crawler Service  
Submit Url  
Review Changes  
Progress  
Confirmation

PI Web API must listen for HTTPS traffic on a communication port; typically port 443. The valid range is between 1 and 65535.  
Enter a communication port number for PI Web API:

443

PI Web API requires a Windows Firewall exception to allow remote clients to access the service when Windows Firewall is enabled. Do you want to create a Windows Firewall exception for PI Web API?

Yes, please create a Firewall Exception for PI Web API (Recommended).

Back Next

Service Name	Status	Startup Type	Logon Type	
PI Totalizer Subsystem	Running	Automatic	Local System	
PI Update Manager	Running	Automatic	Local System	
PI Web API	A RESTful A...	Running	Automatic	NT Service
PI Web API Crawler	This service ...	Running	Automatic (D...)	NT Service
PI-Buffer Server	Service to b...	Disabled	Local System	
PI-Buffer Server x64	Service to b...	Disabled	Local System	
PIPC Log Server	Service to ...	Running	Automatic	Local System
PIPC Log Server x64	Service to ...	Running	Automatic	Local System
Plug and Play	Enables a c...	Running	Manual	Local System
Portable Device Enumerator...	Enforces gr...		Manual (Trig...	Local System
Power	Manages p...	Running	Automatic	Local System
Print Spooler	This service ...	Running	Automatic	Local System
Printer Extensions and Notif...	This service ...	Manual	Local System	

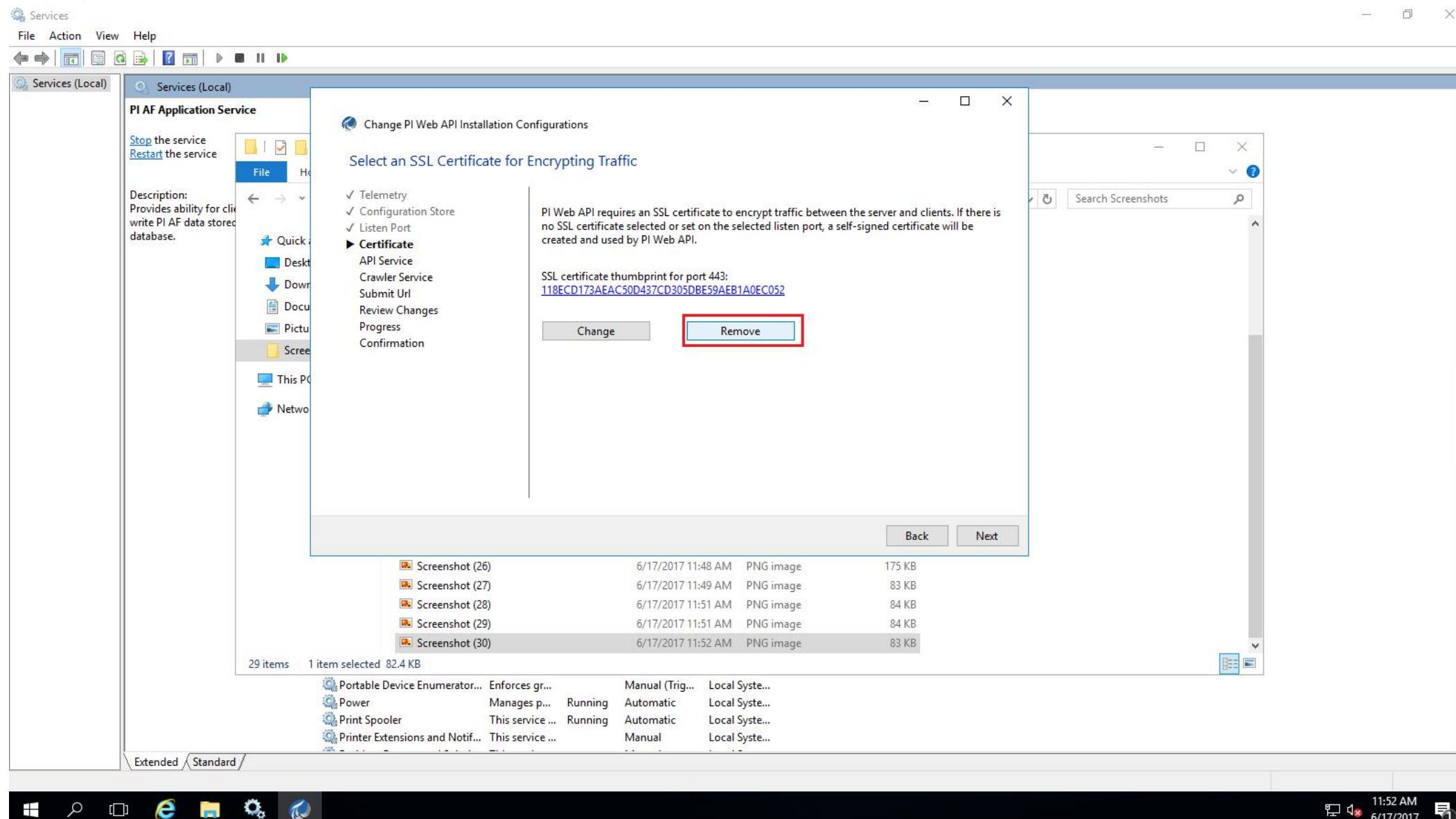
Extended Standard

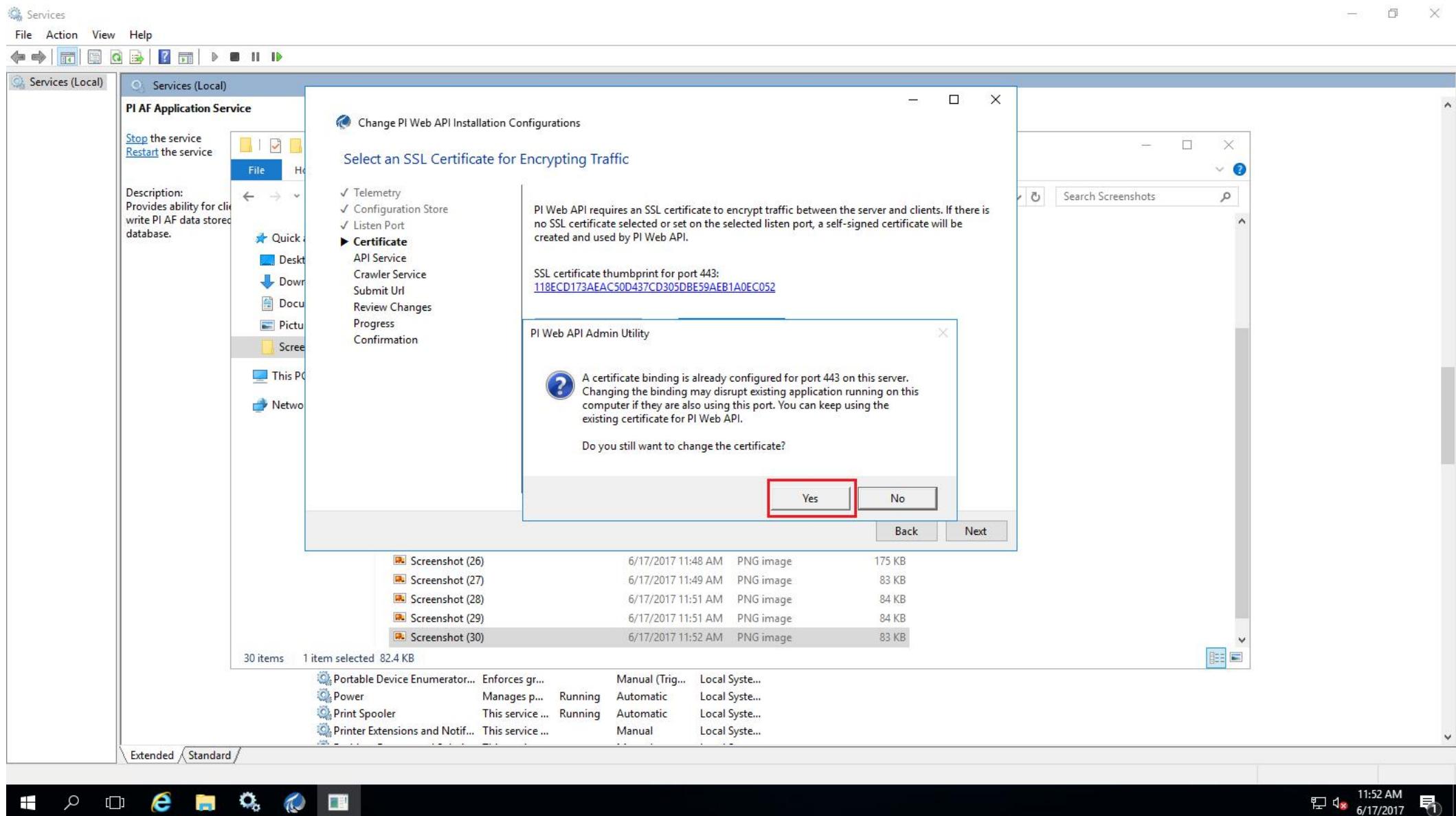
Back Next

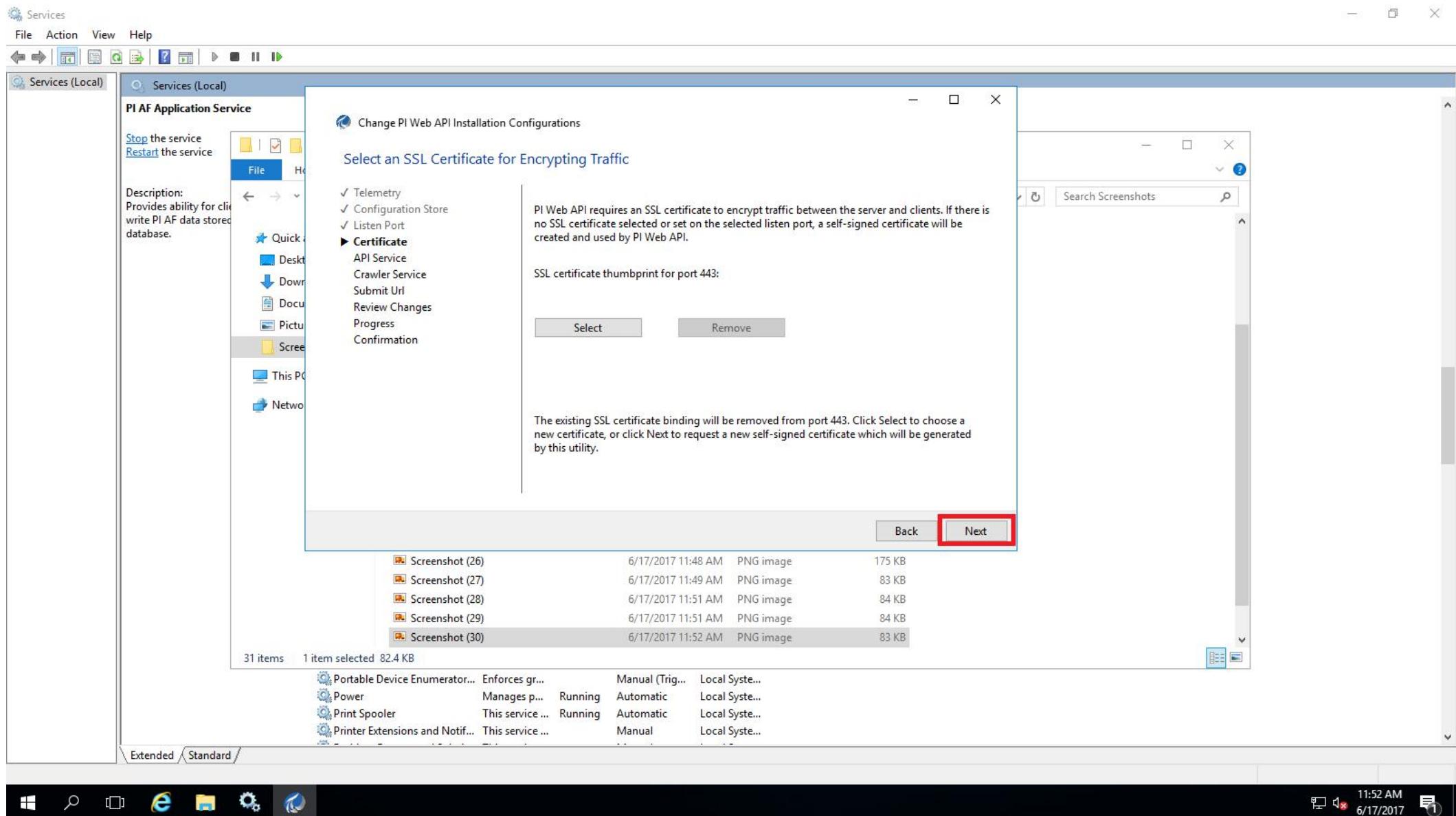
Windows Start Task View Search Internet Explorer File Explorer Settings PI Web API

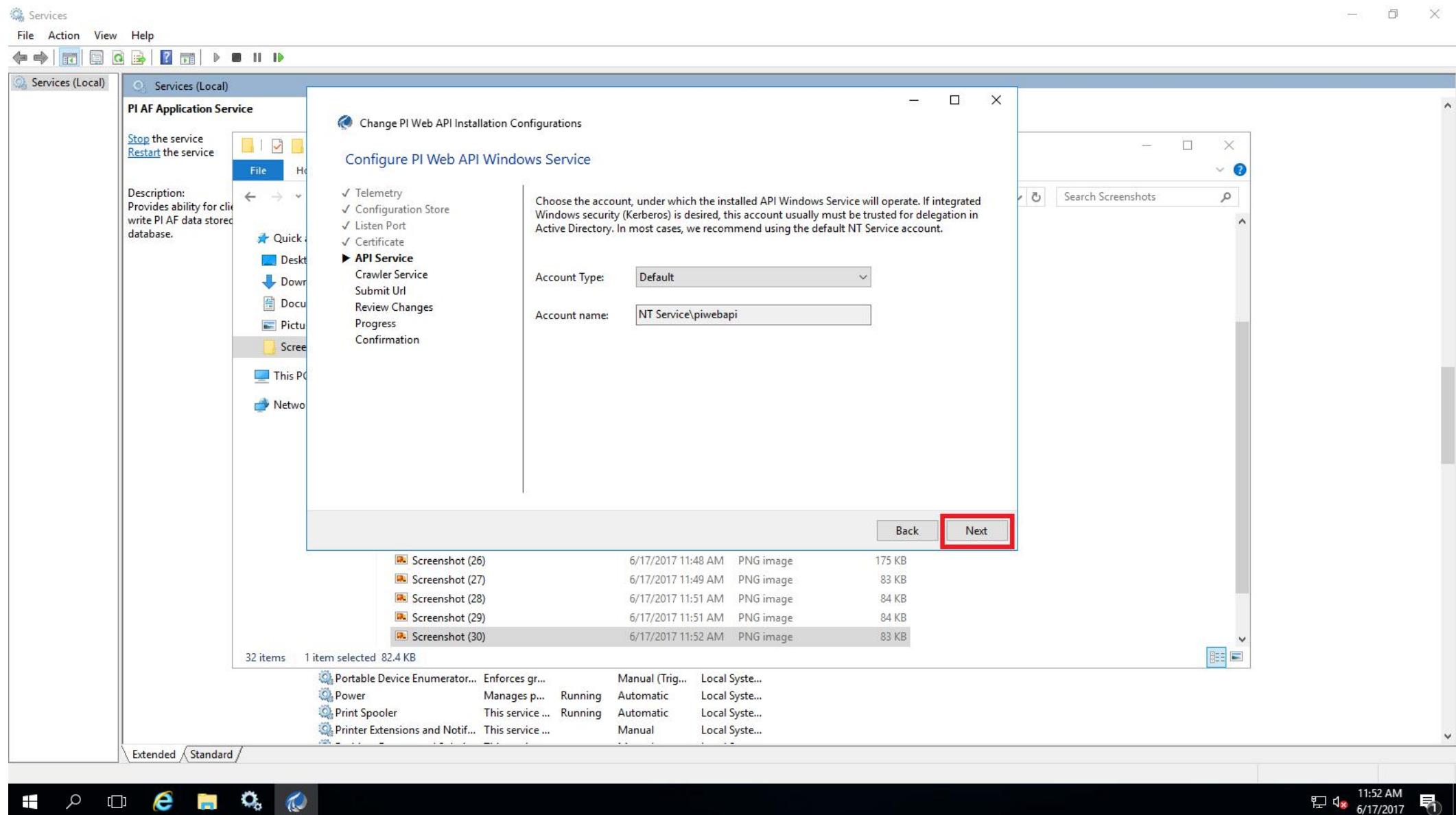
11:35 AM 6/17/2017

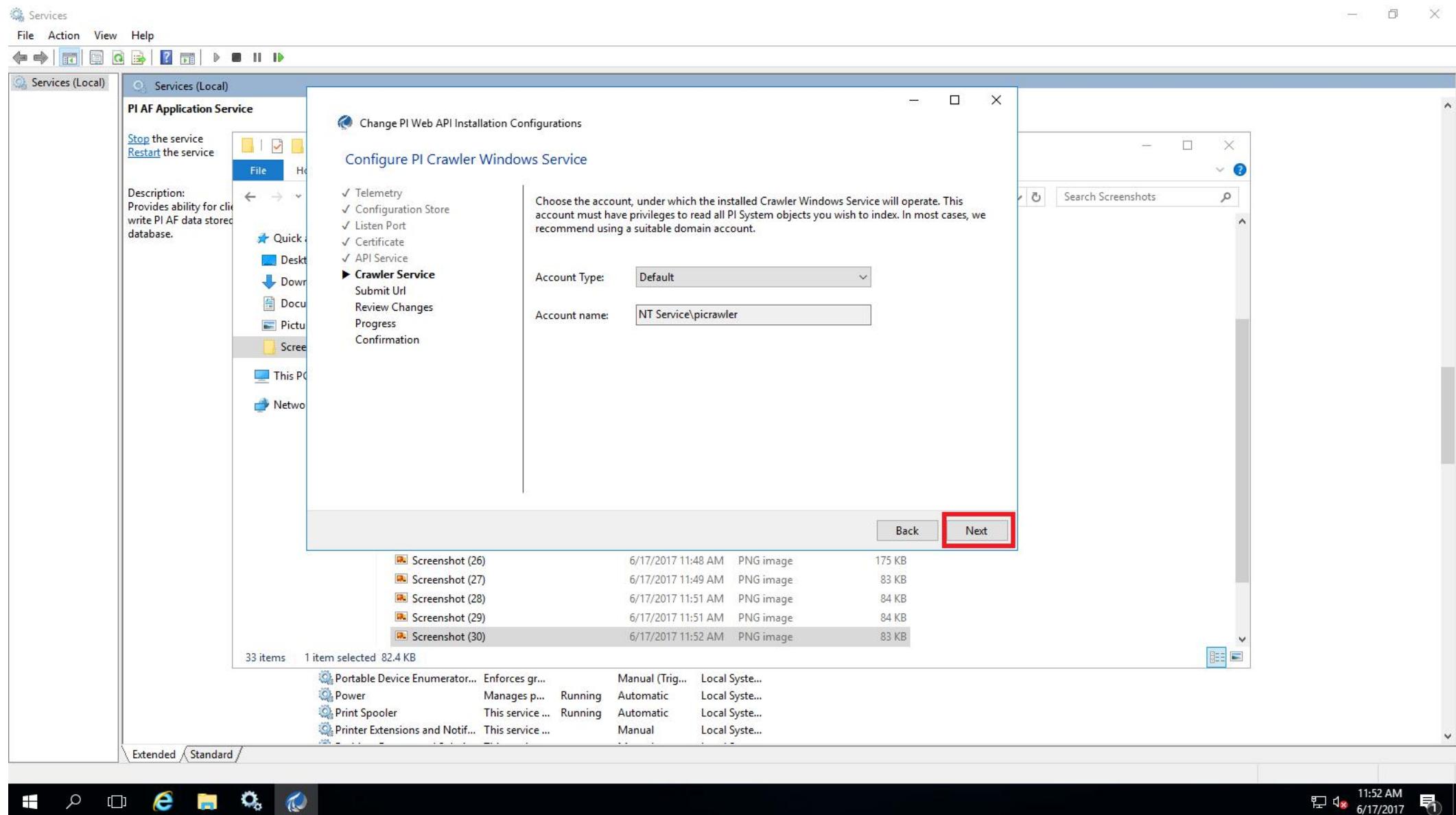
# TEMPSQLSERVERVM - Remove Certificate. Setup will add new self signed Certificate.



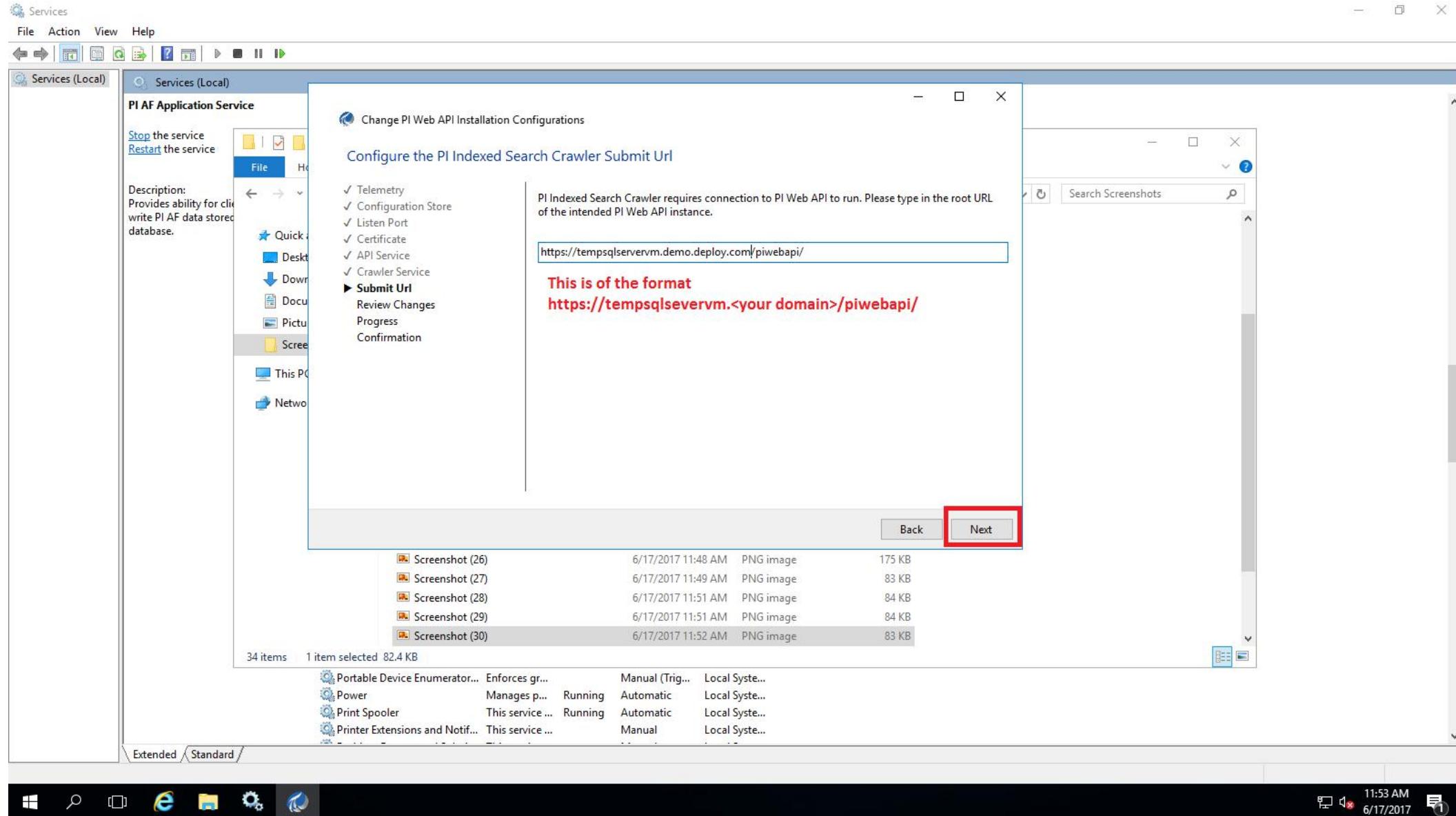


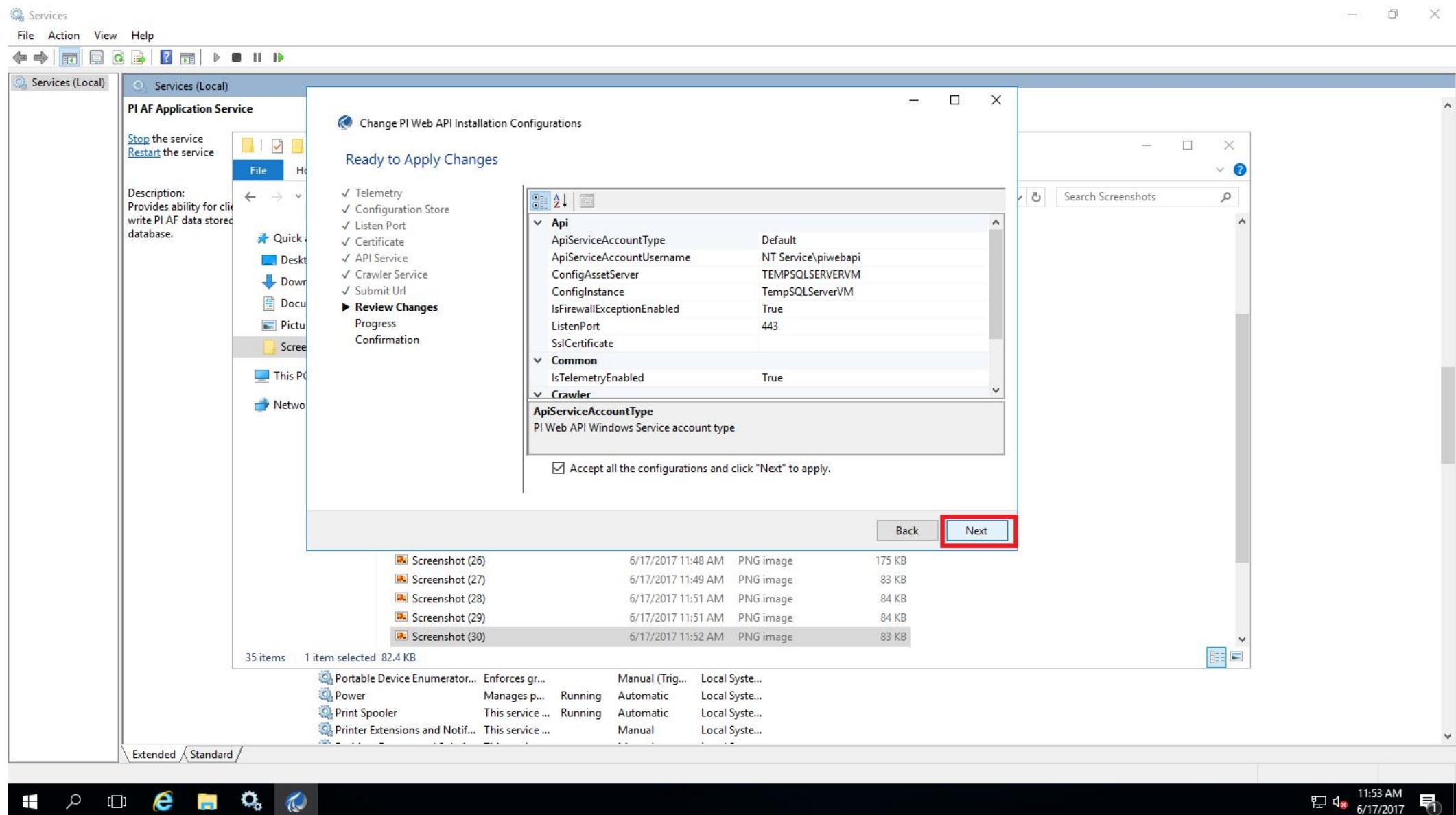


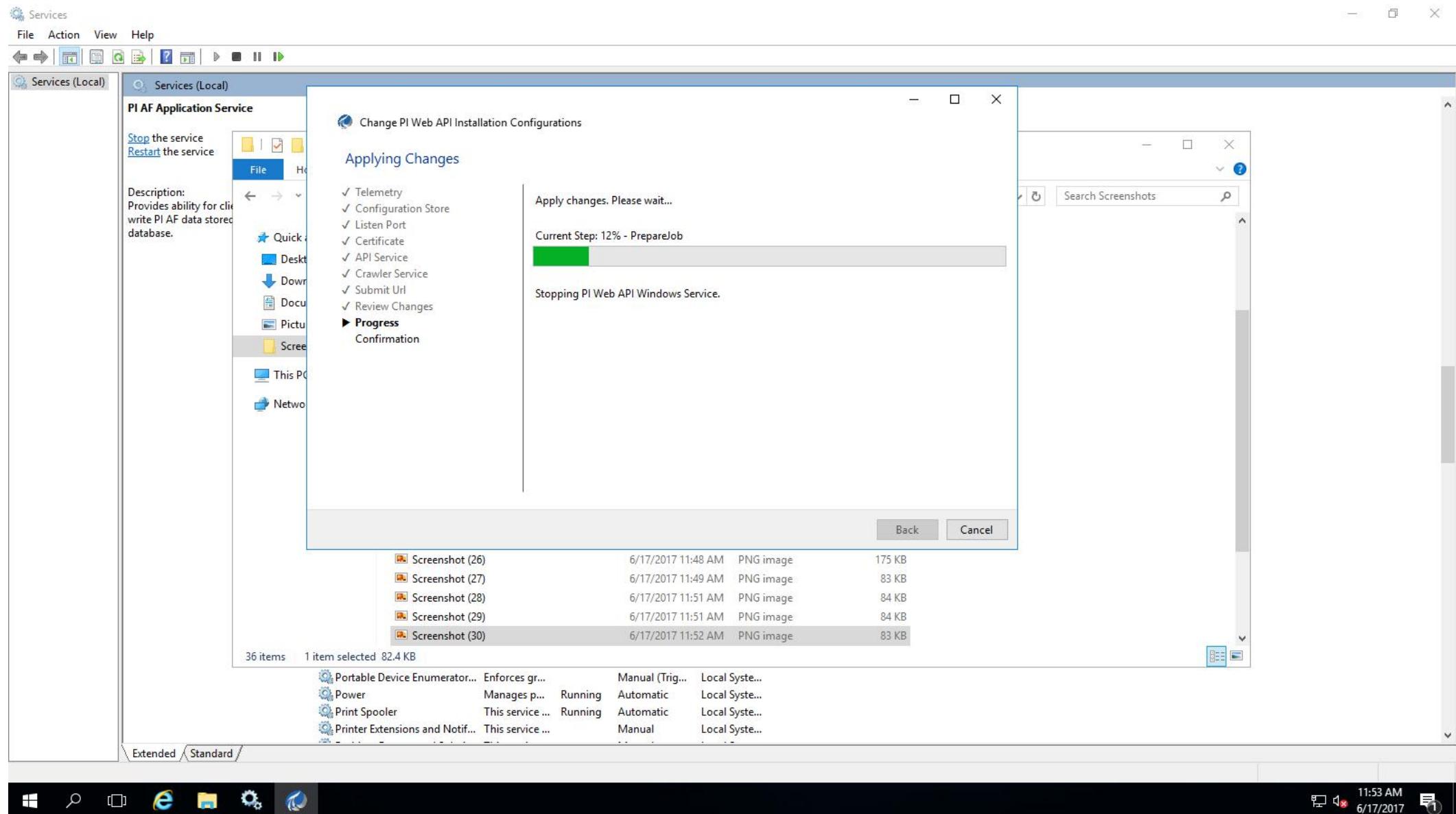


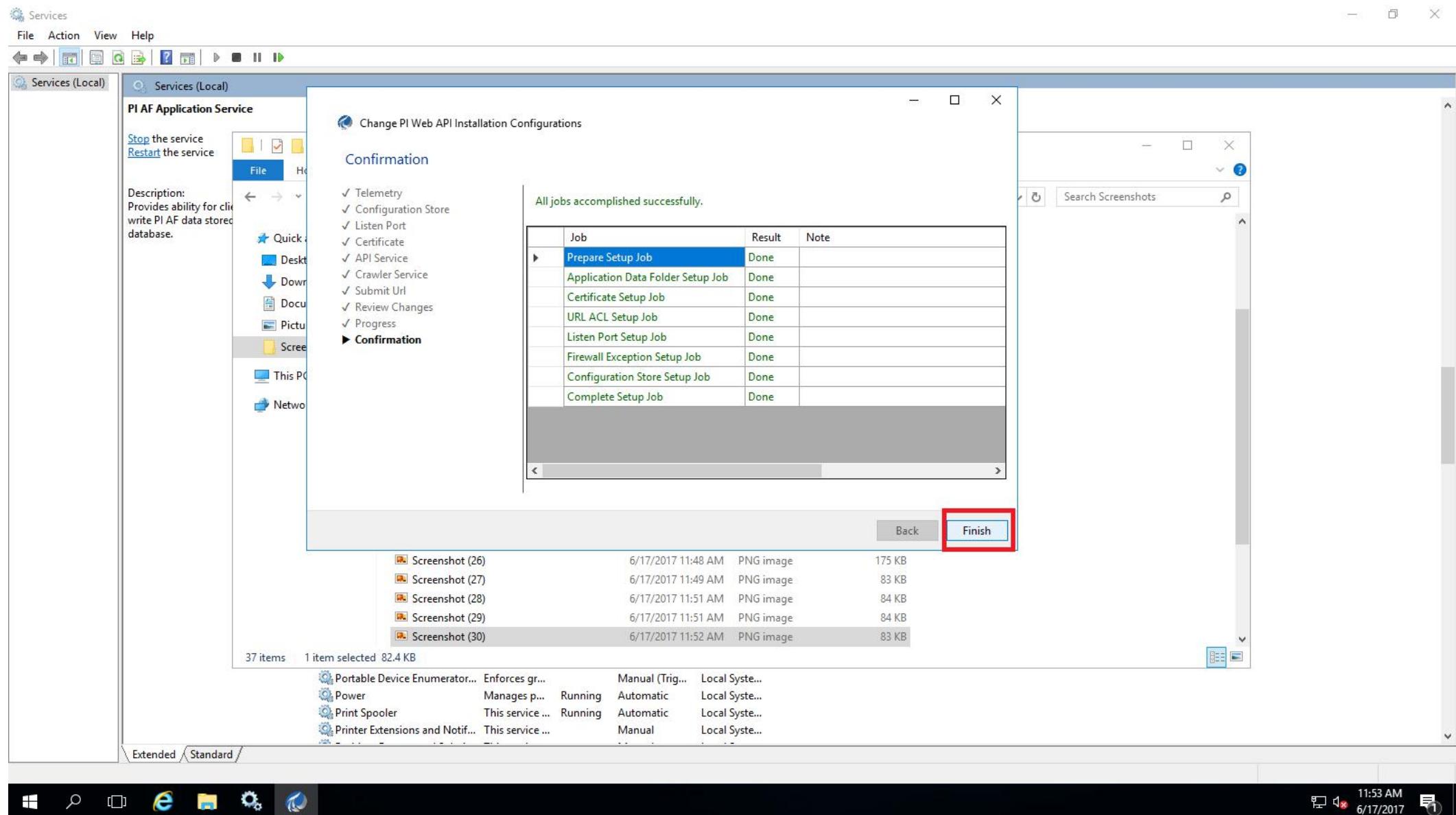


# TEMPSQLSERVERVM - Change domain name and copy url

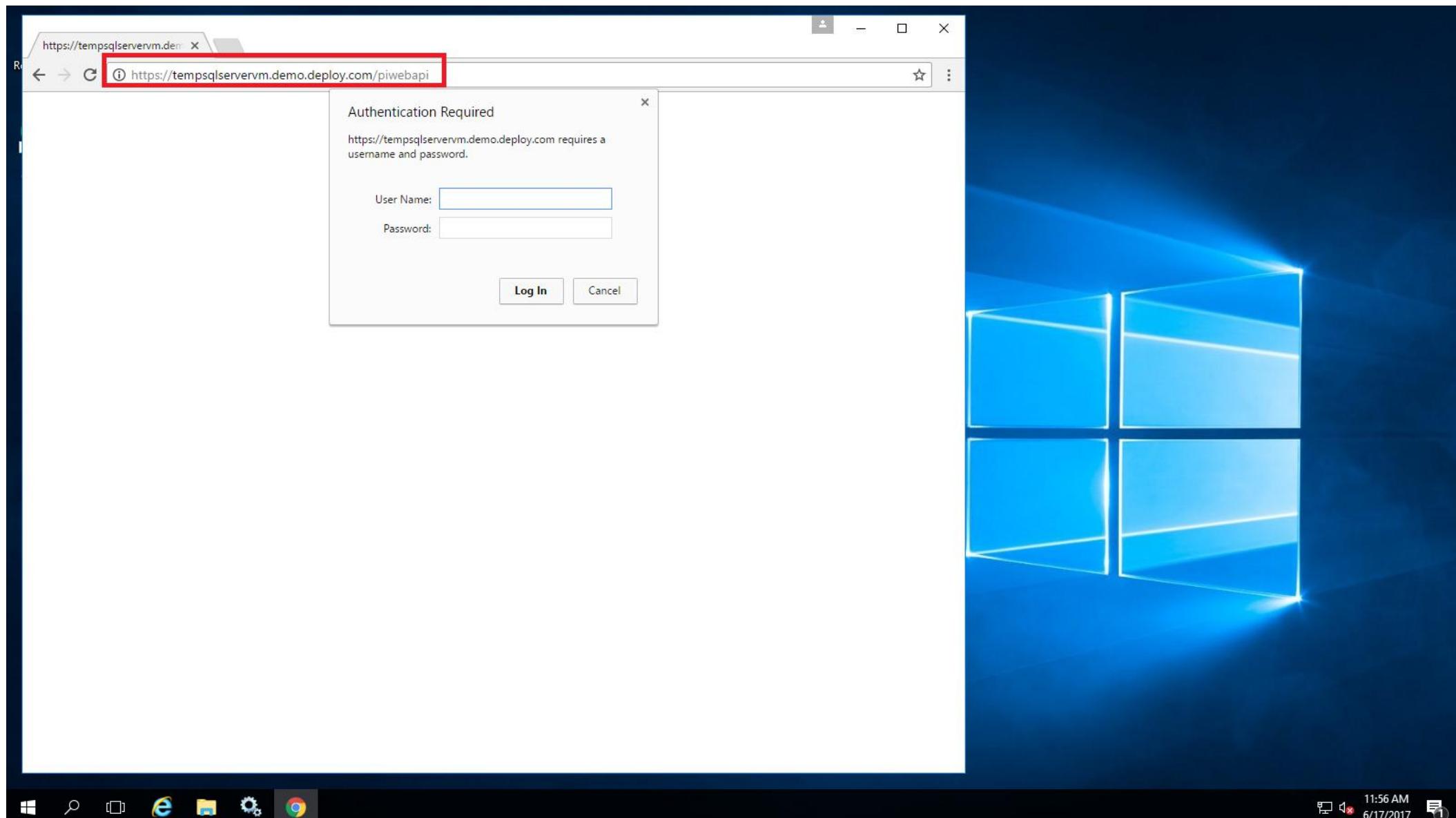


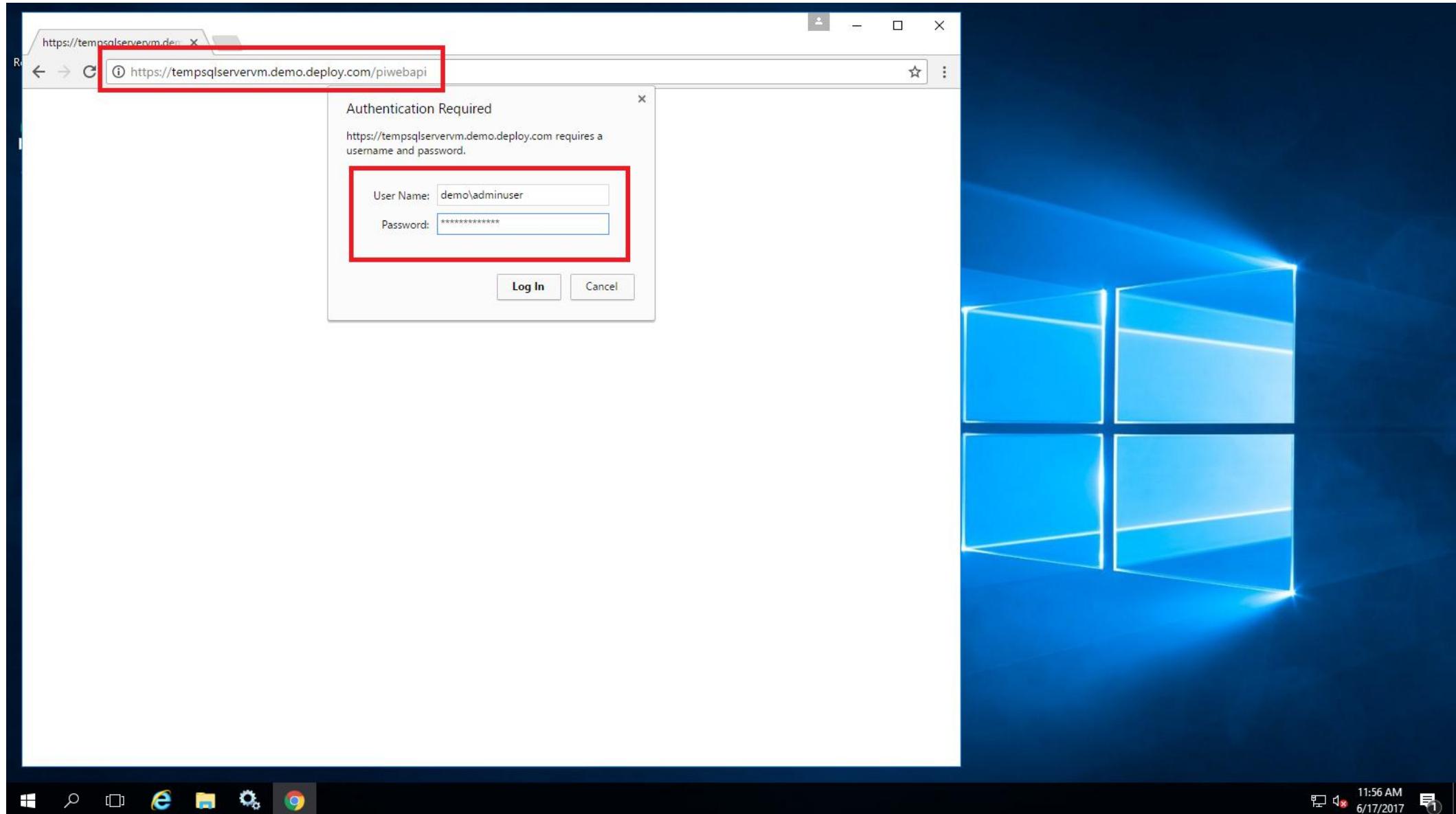


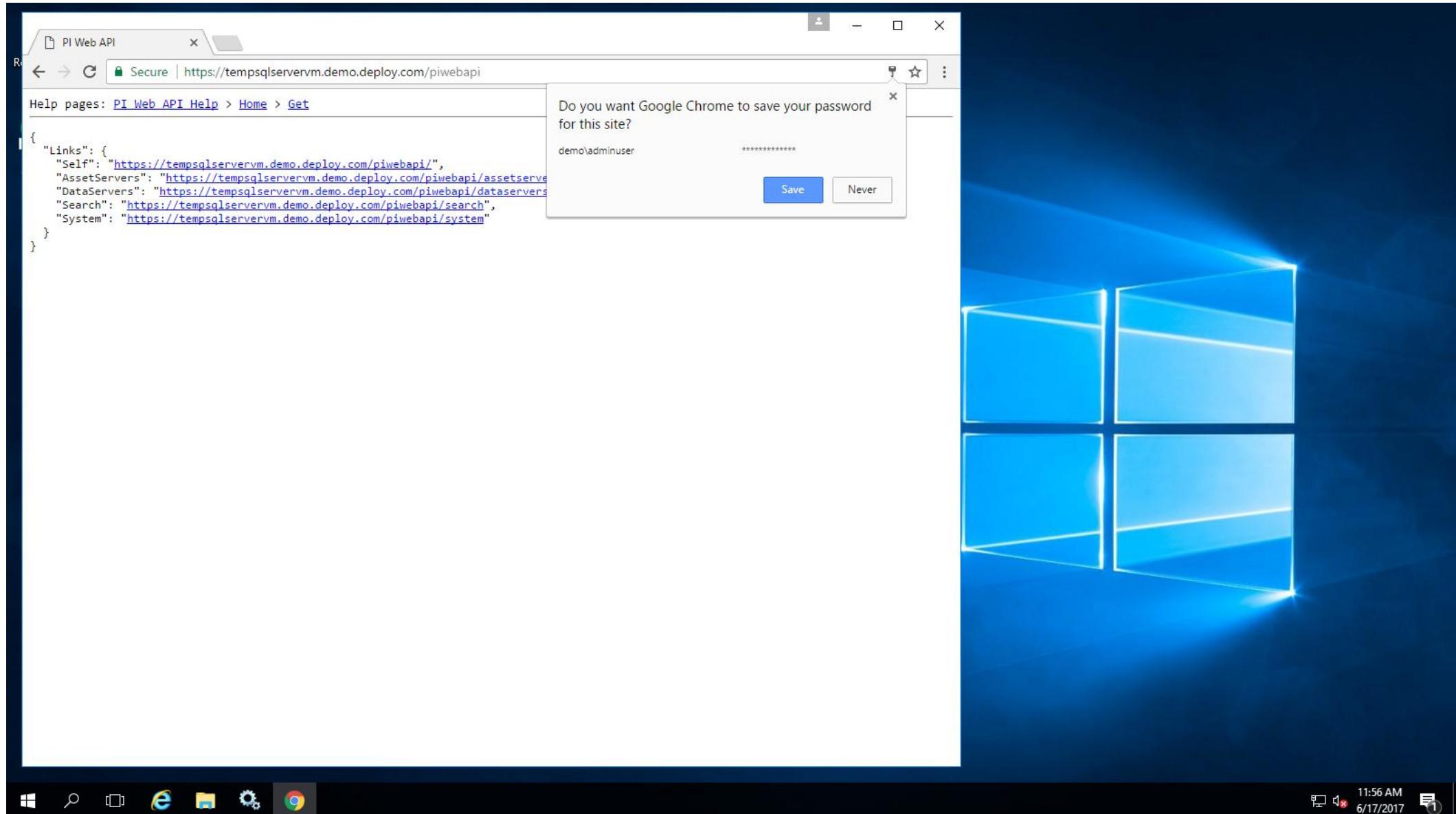




# TEMPSQLSERVERVM - Login using domain account



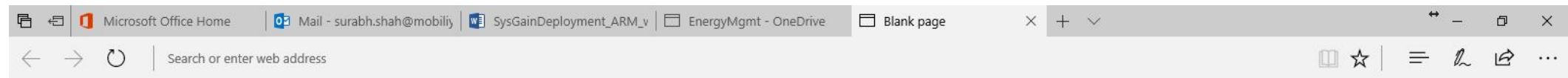




## Prerequisites

- [VHDs for PI Server and PI BA VMs](#)
- Azure B2C tenant with users and application registered
- Power BI account and Power BI desktop app.
- Firebase notification registered application(optional)
- [ARM script](#)
- [Power BI templates](#)
- [Data Processing utility](#)

<https://emdeployment.blob.core.windows.net/releasemtr/DataServiceSetup.msi>



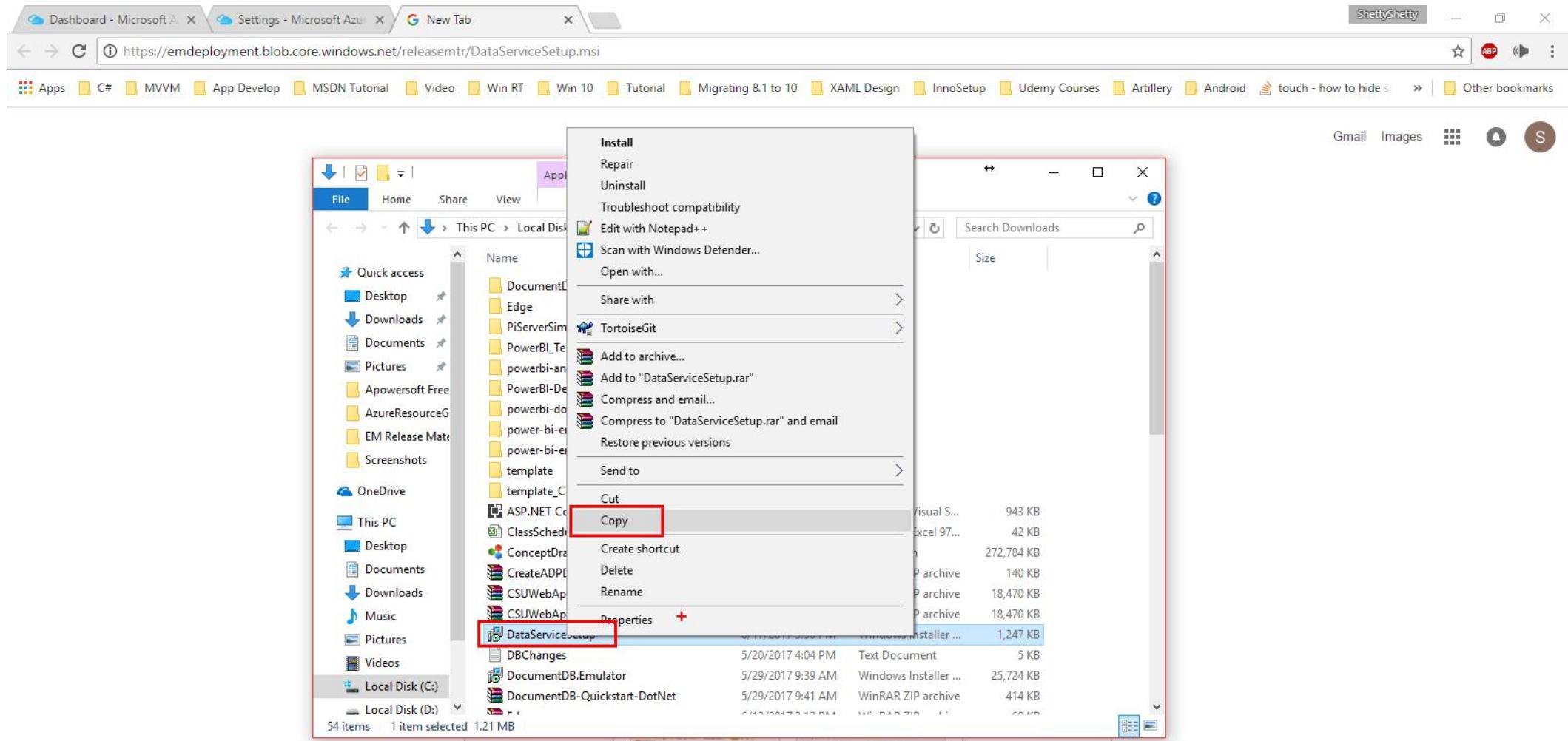
What do you want to do with DataServiceSetup.msi (2.1 MB)?  
From: emdeployment.blob.core.windows.net

Run

Save

Cancel





Dashboard - Microsoft A   Settings - Microsoft Azure   New Tab

ShettyShetty

<https://emdeployment.blob.core.windows.net/releasemtr/DataServiceSetup.msi>

Apps C# MVVM App Develop MSDN Tutorial Video Win RT Win 10 Tutorial Migrating 8.1 to 10 XAML Design InnoSetup Udemy Courses Artillery Android touch - how to hide s... Other bookmarks

Gmail Images

Downloads

This PC > Local Disk (C:) > Users > Surabh > Downloads

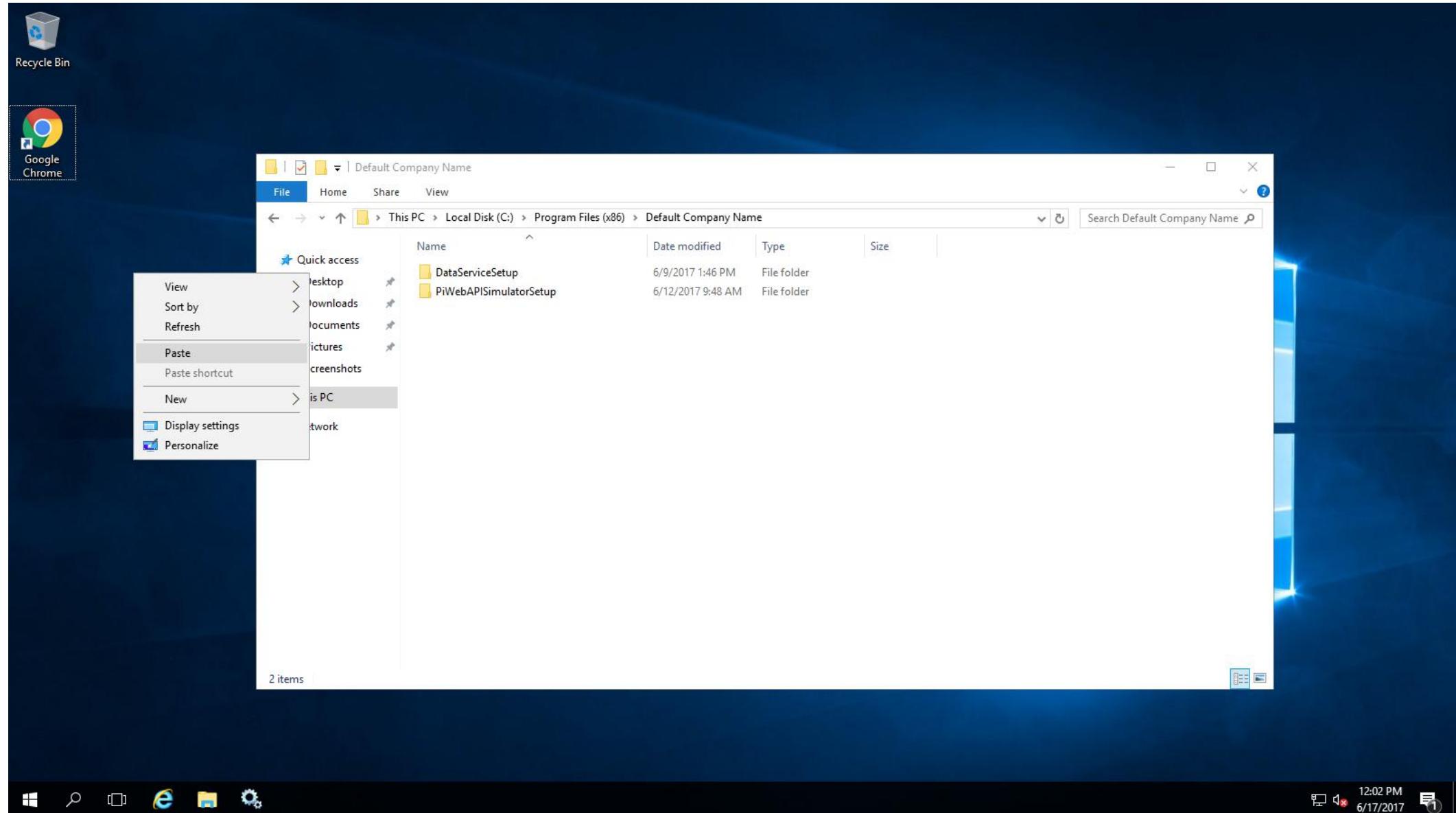
Name	Date modified	Type	Size
DocumentDB-Quickstart-DotNet	5/29/2017 9:43 AM	File folder	
Edge	6/12/2017 3:13 PM	File folder	
PiServerSimulator	6/5/2017 8:06 PM	File folder	
PowerBI_Templates	6/5/2017 10:52 PM	File folder	
powerbi-angular-client-master	6/15/2017 3:07 PM	File folder	
PowerBI-Developer-Samples-master	6/15/2017 1:39 PM	File folder	
powerbi-dotnet-server-aspnet-web-api...	6/15/2017 3:14 PM	File folder	
power-bi-embedded-iframe-master	6/15/2017 3:10 PM	File folder	
power-bi-embedded-integrate-report-in...	6/15/2017 3:27 PM	File folder	
template	5/30/2017 7:23 PM	File folder	
template_Cosmos	5/30/2017 3:13 PM	File folder	
ASP.NET Core Template Pack v1.1.37	5/29/2017 1:08 PM	Microsoft Visual S...	943 KB
ClassSchedule_PiServer1	6/5/2017 11:41 PM	Microsoft Excel 97...	42 KB
ConceptDrawOffice4Install	5/25/2017 3:04 PM	Application	272,784 KB
CreateADPDC	6/6/2017 4:17 PM	WinRAR ZIP archive	140 KB
CSUWebApp (1)	6/16/2017 5:57 PM	WinRAR ZIP archive	18,470 KB
CSUWebApp	6/16/2017 12:03 PM	WinRAR ZIP archive	18,470 KB
<b>DataServiceSetup</b>	<b>6/17/2017 5:30 PM</b>	<b>Windows Installer ...</b>	<b>1,247 KB</b>
DBChanges	5/20/2017 4:04 PM	Text Document	5 KB
DocumentDB.Emulator	5/29/2017 9:39 AM	Windows Installer ...	25,724 KB
DocumentDB-Quickstart-DotNet	5/29/2017 9:41 AM	WinRAR ZIP archive	414 KB

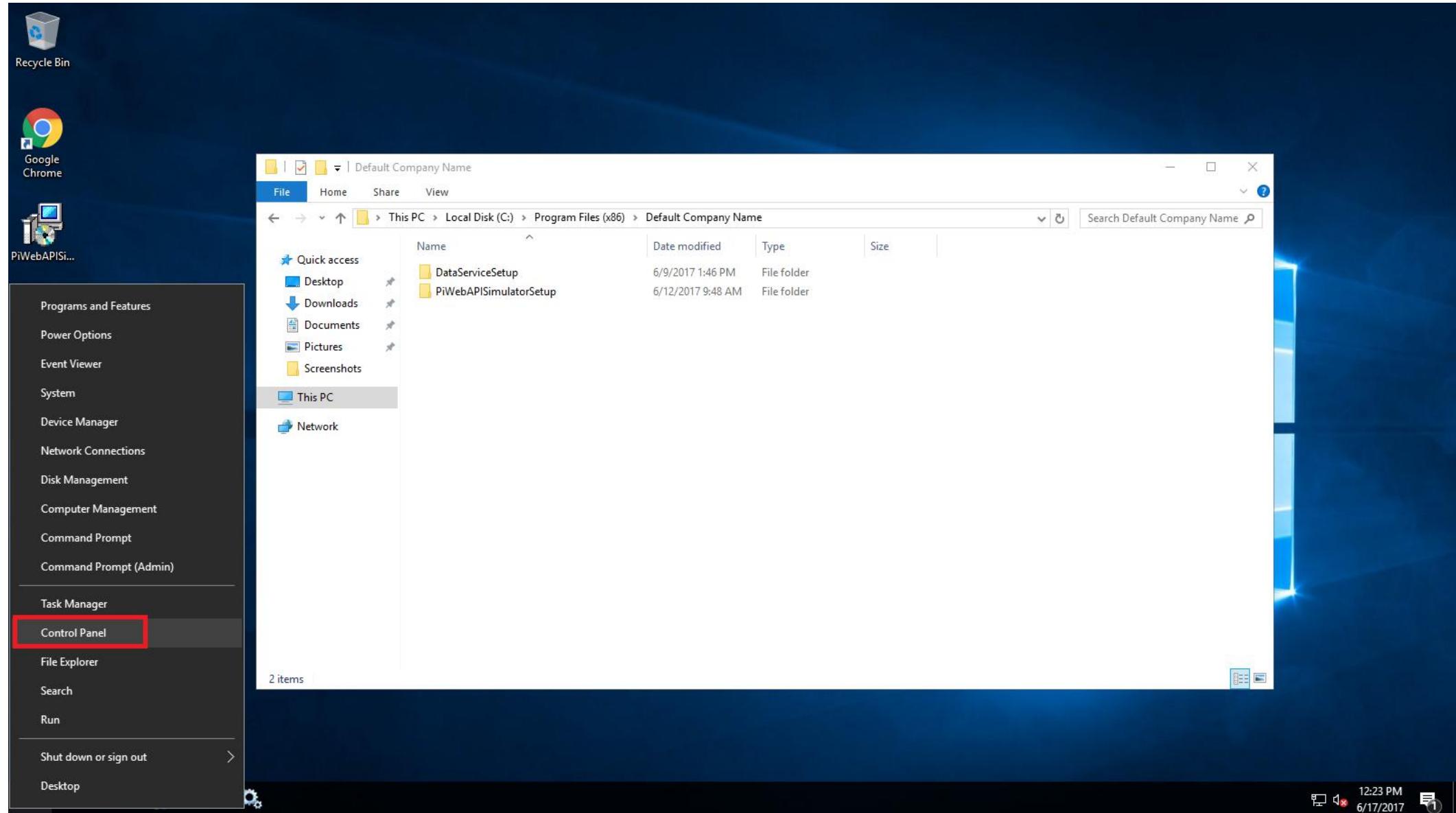
TempWinServerVM - 52.161.9... TempSQLServerVM - 52.161.1...

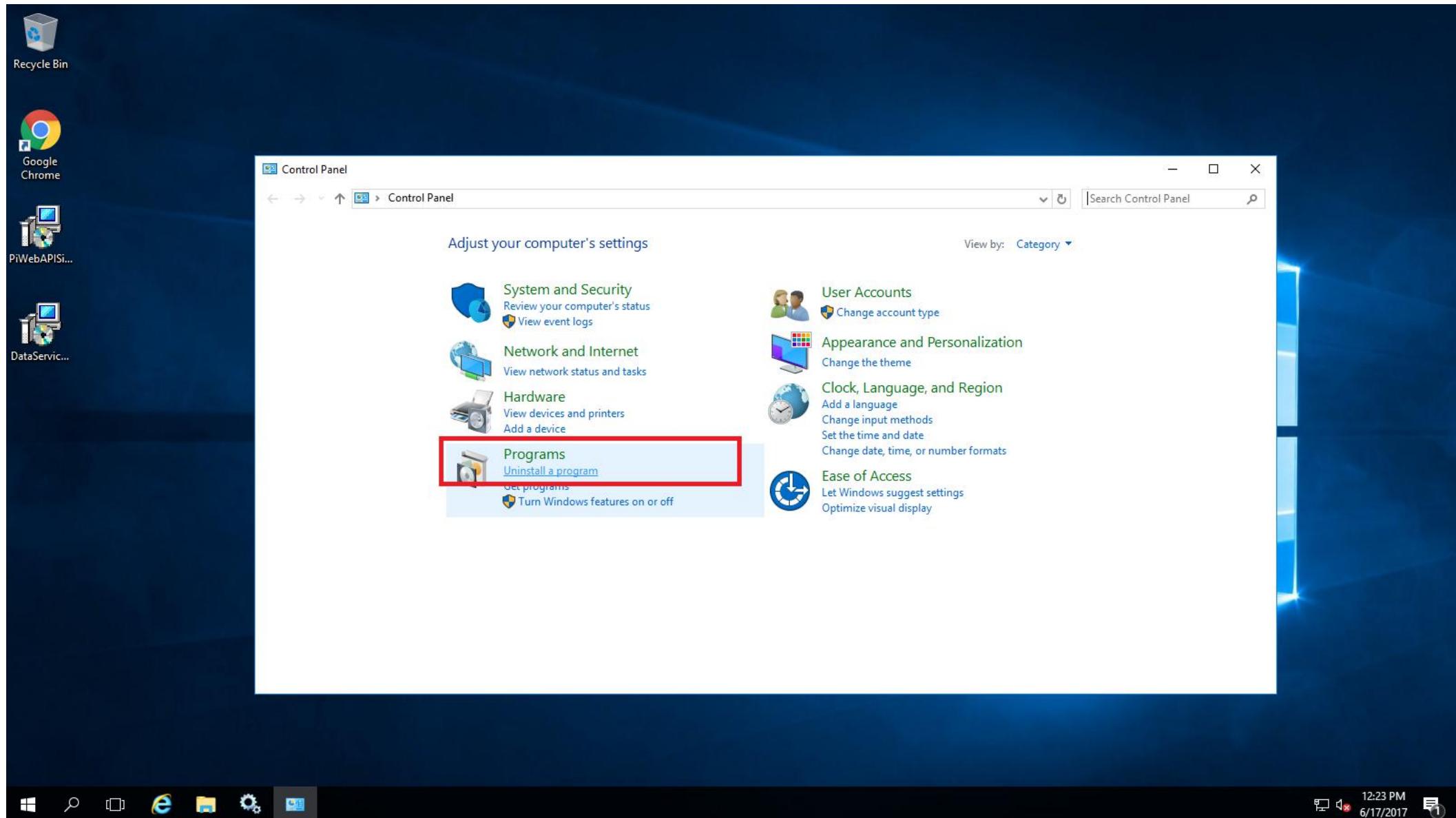
DataServiceSetup.msi

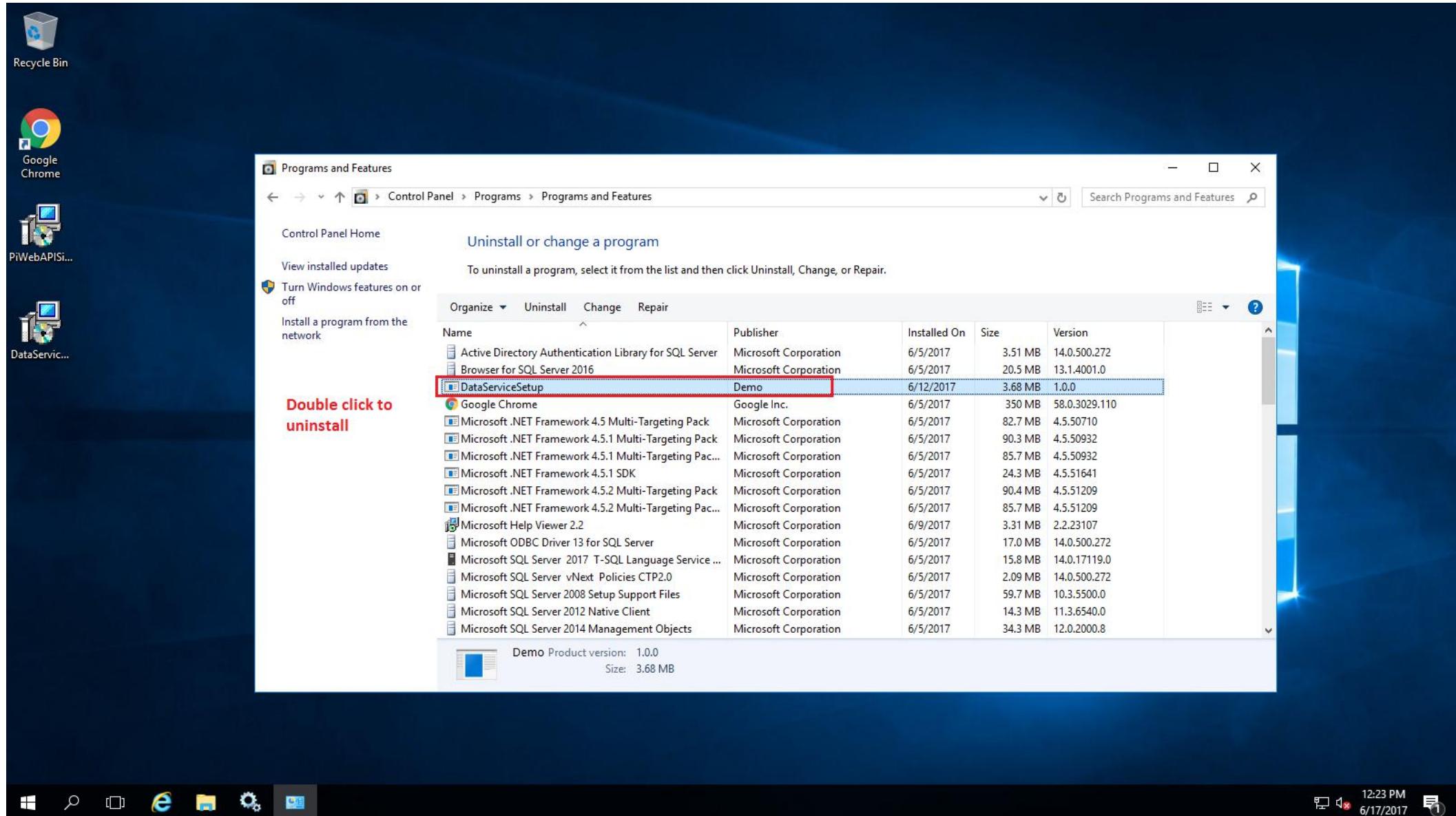
Type here to search

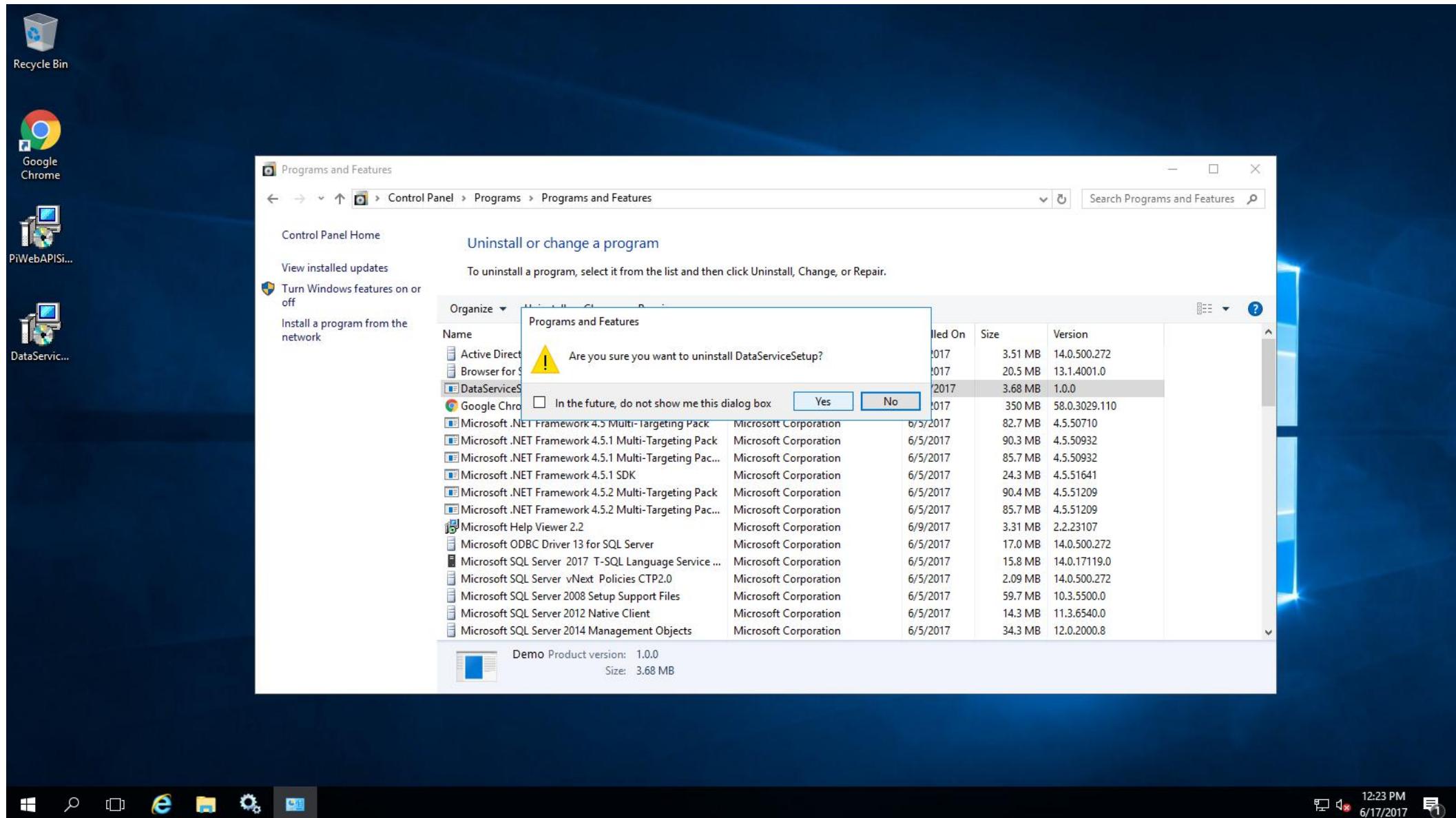
5:31 PM 6/17/2017

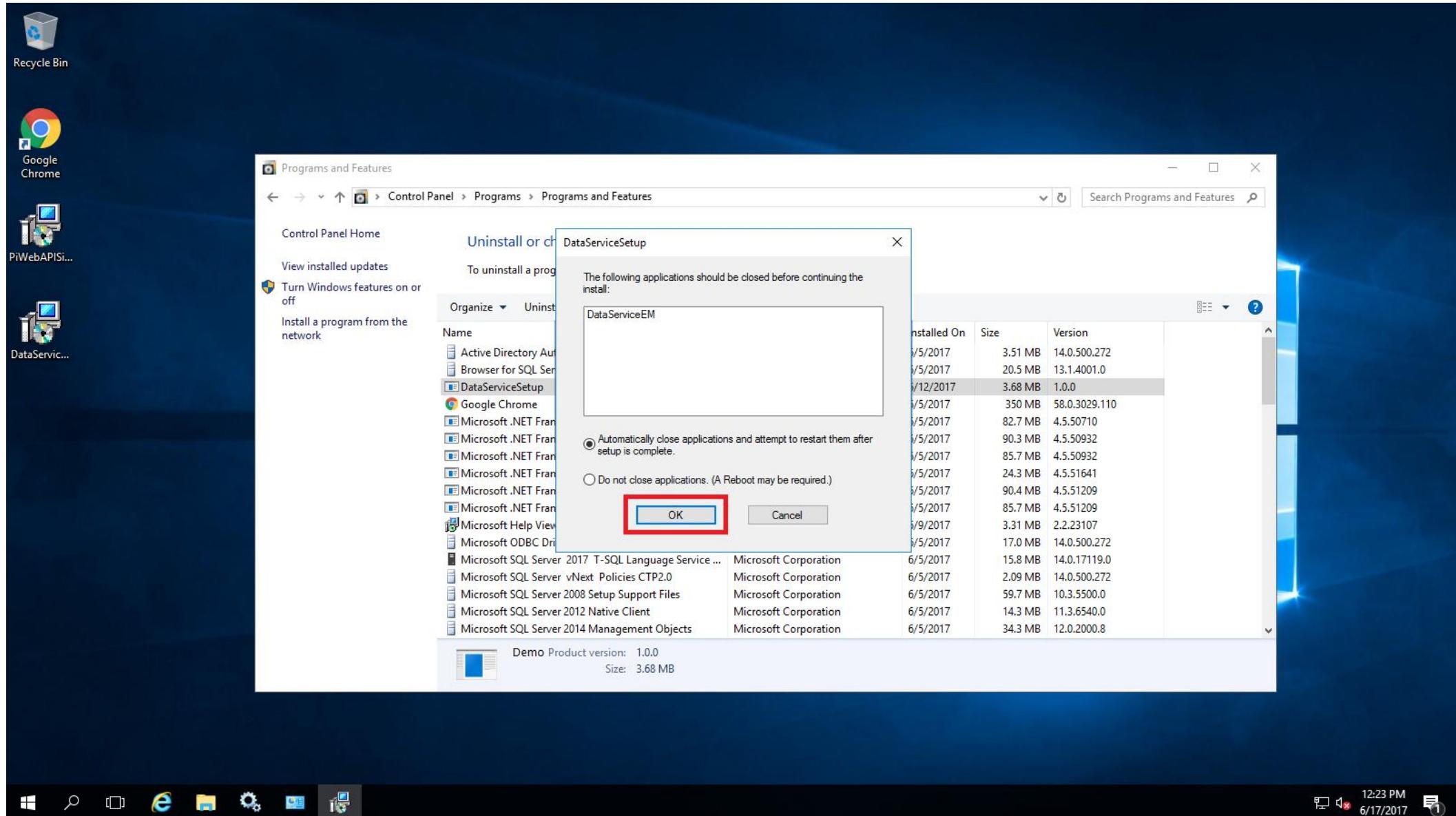


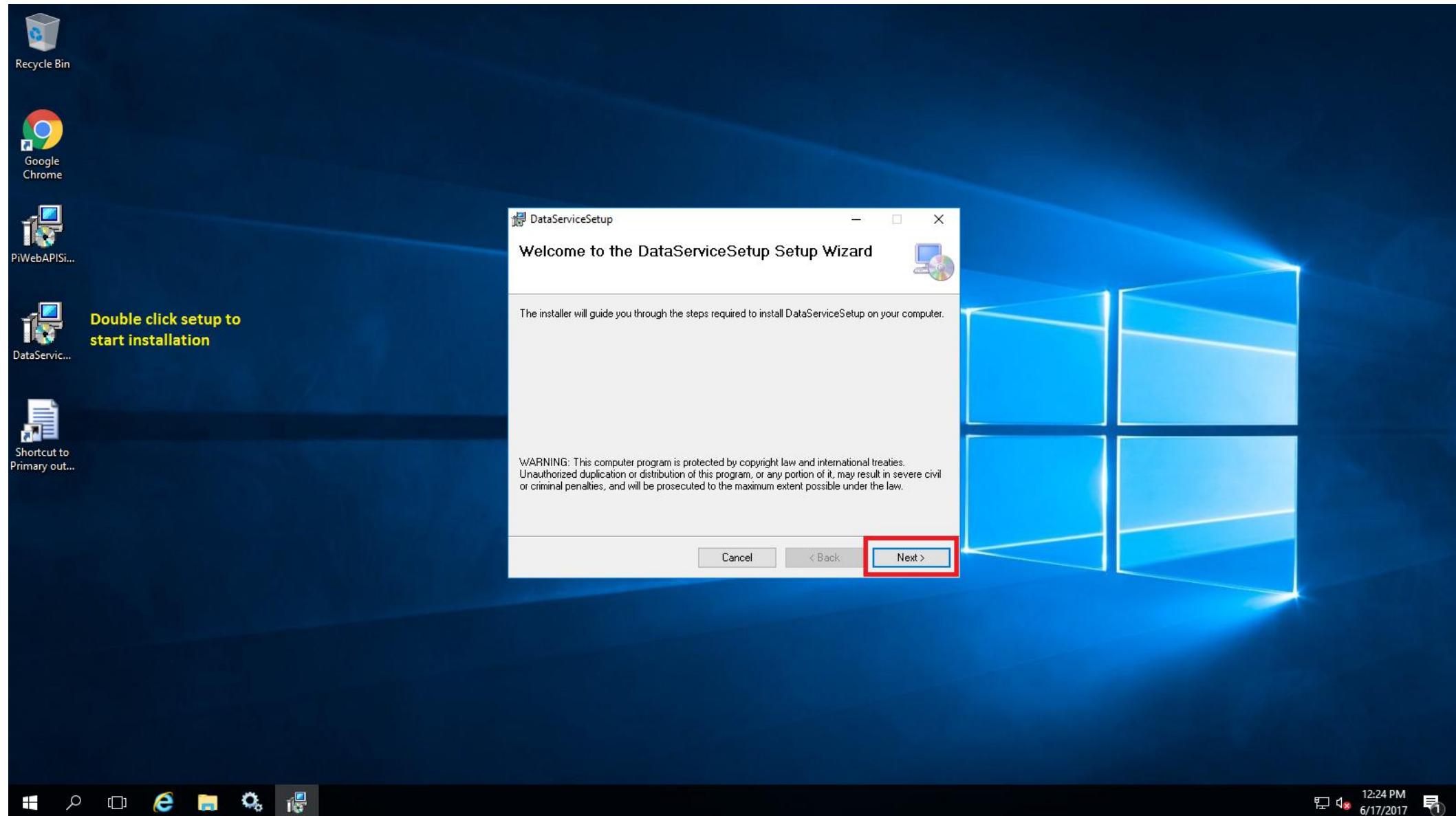


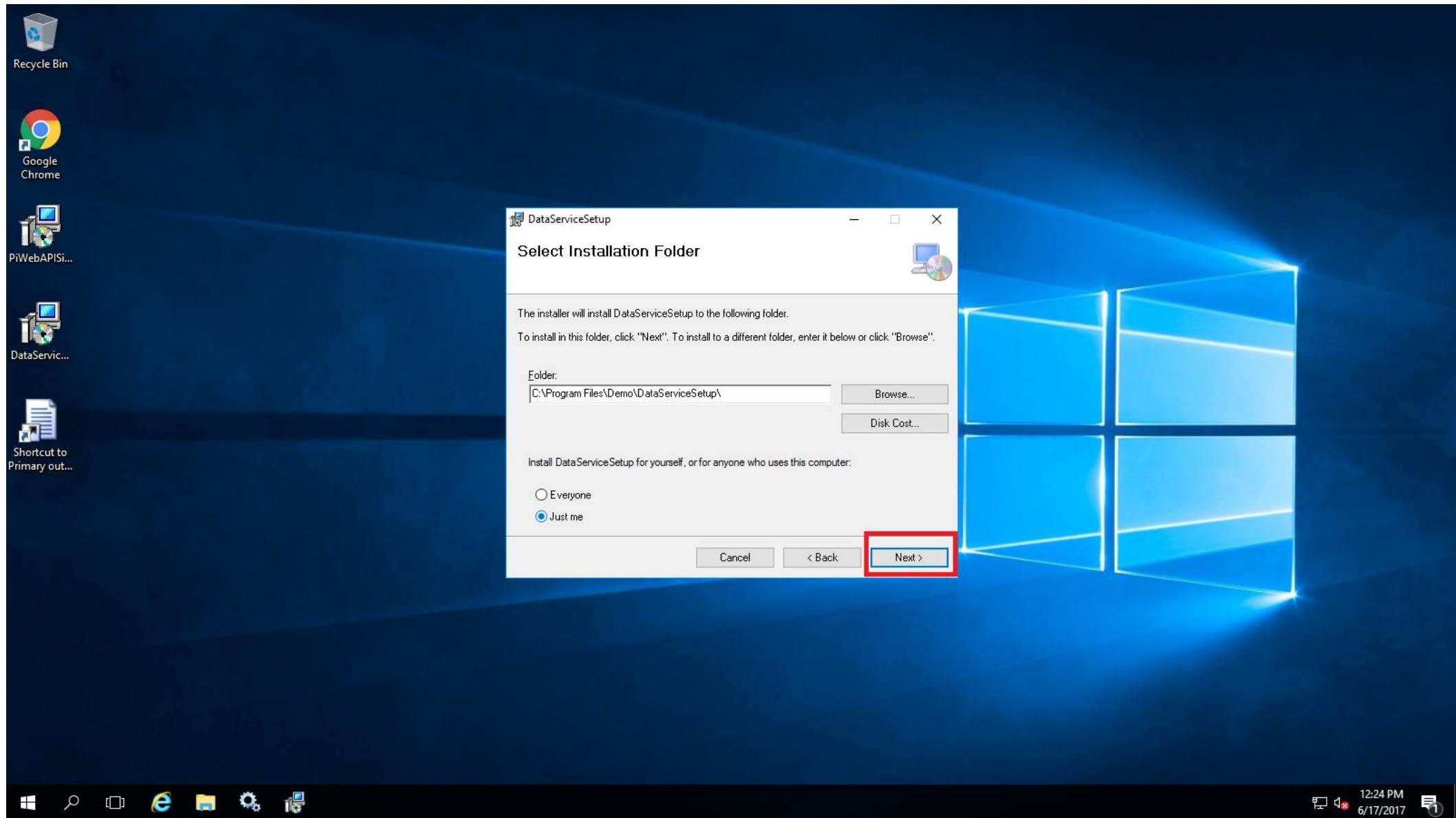


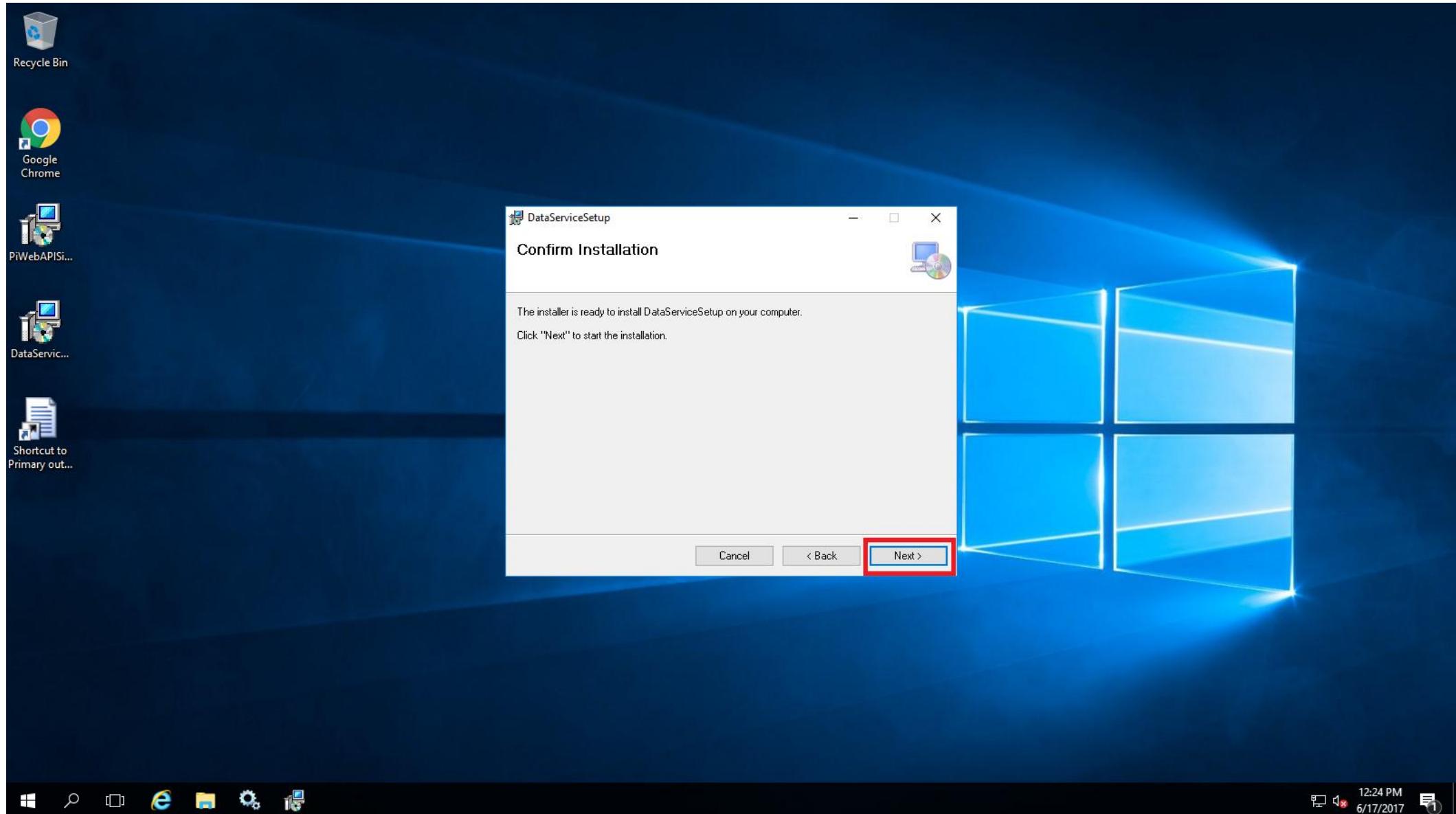


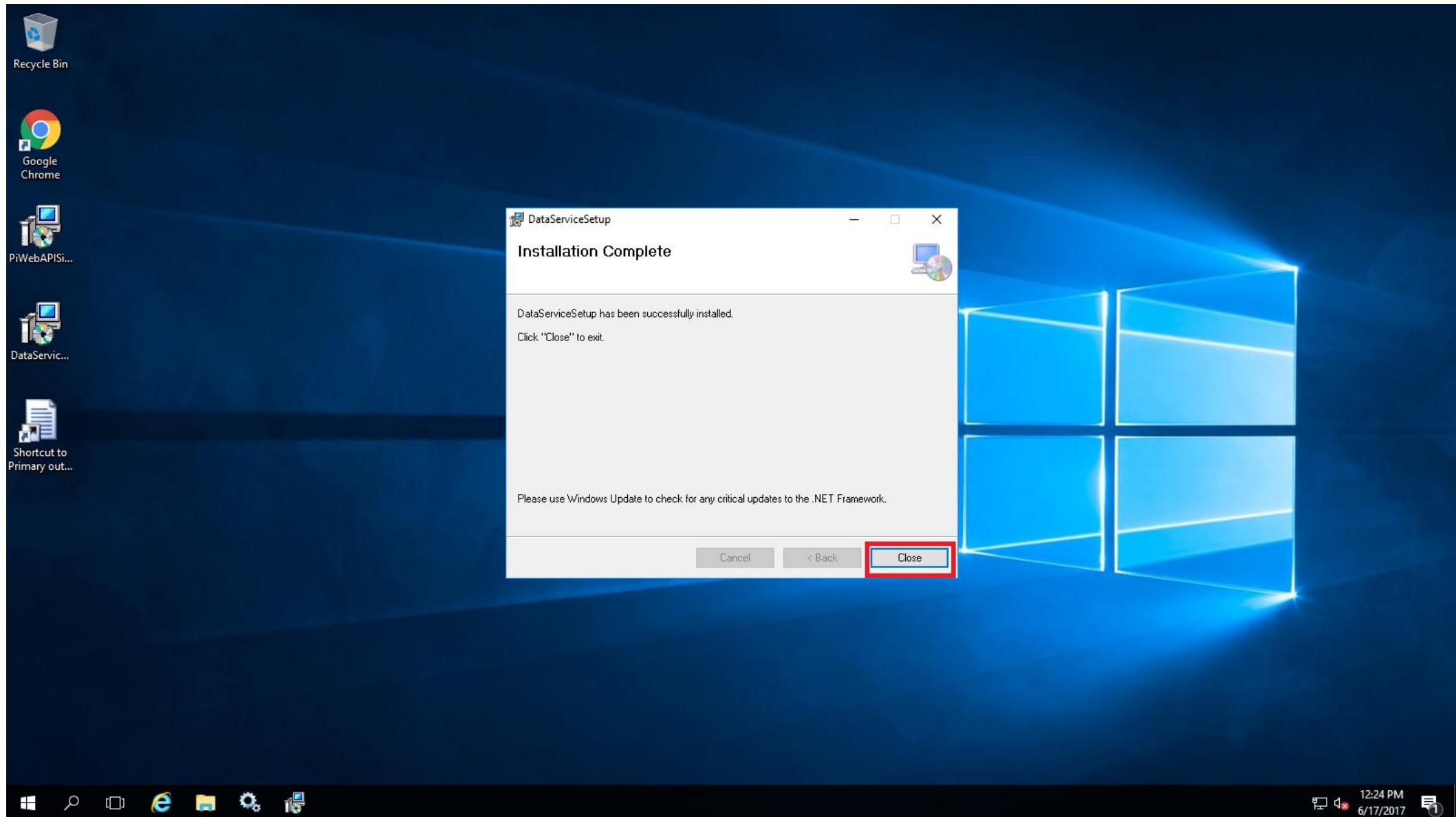


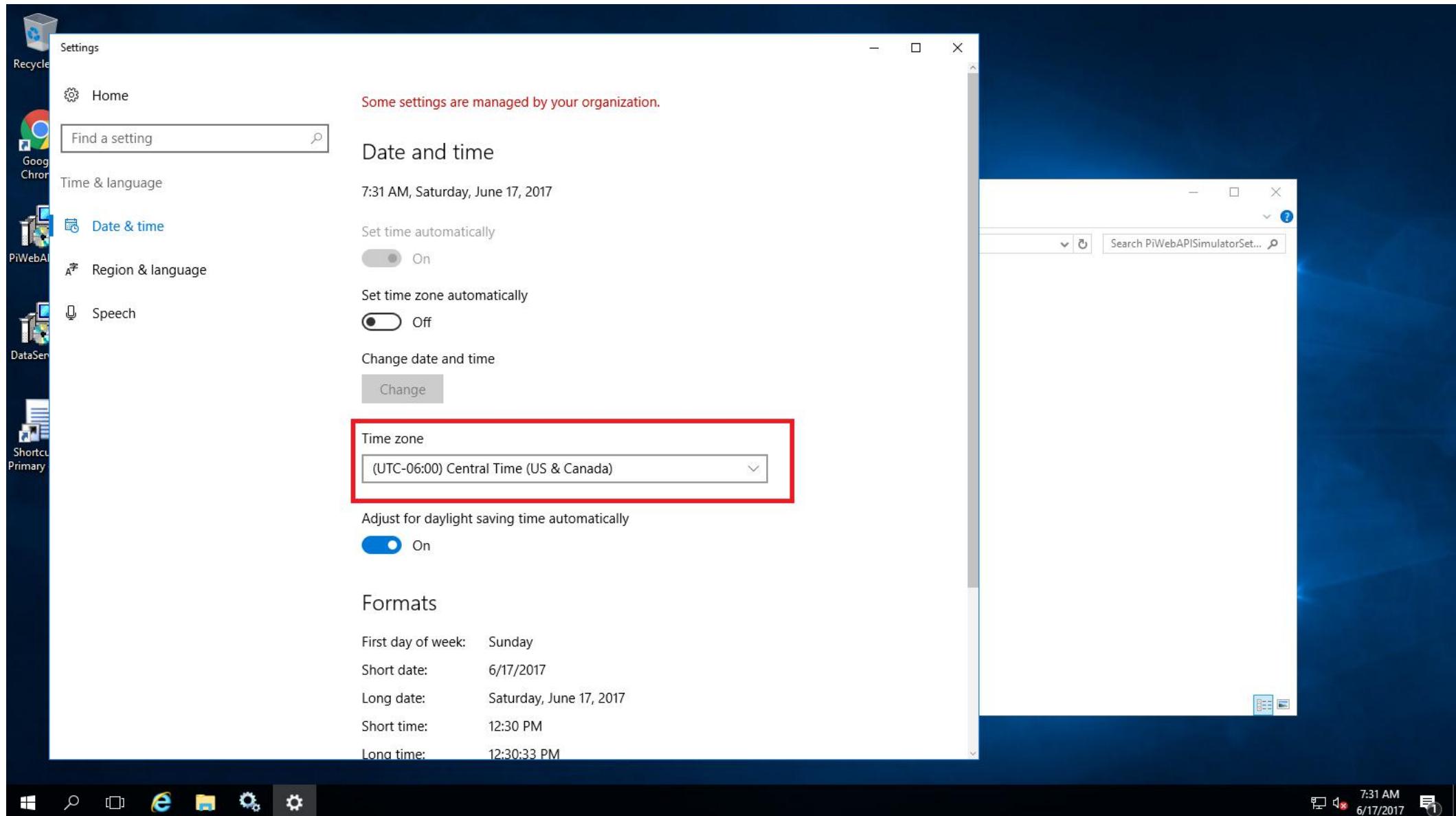




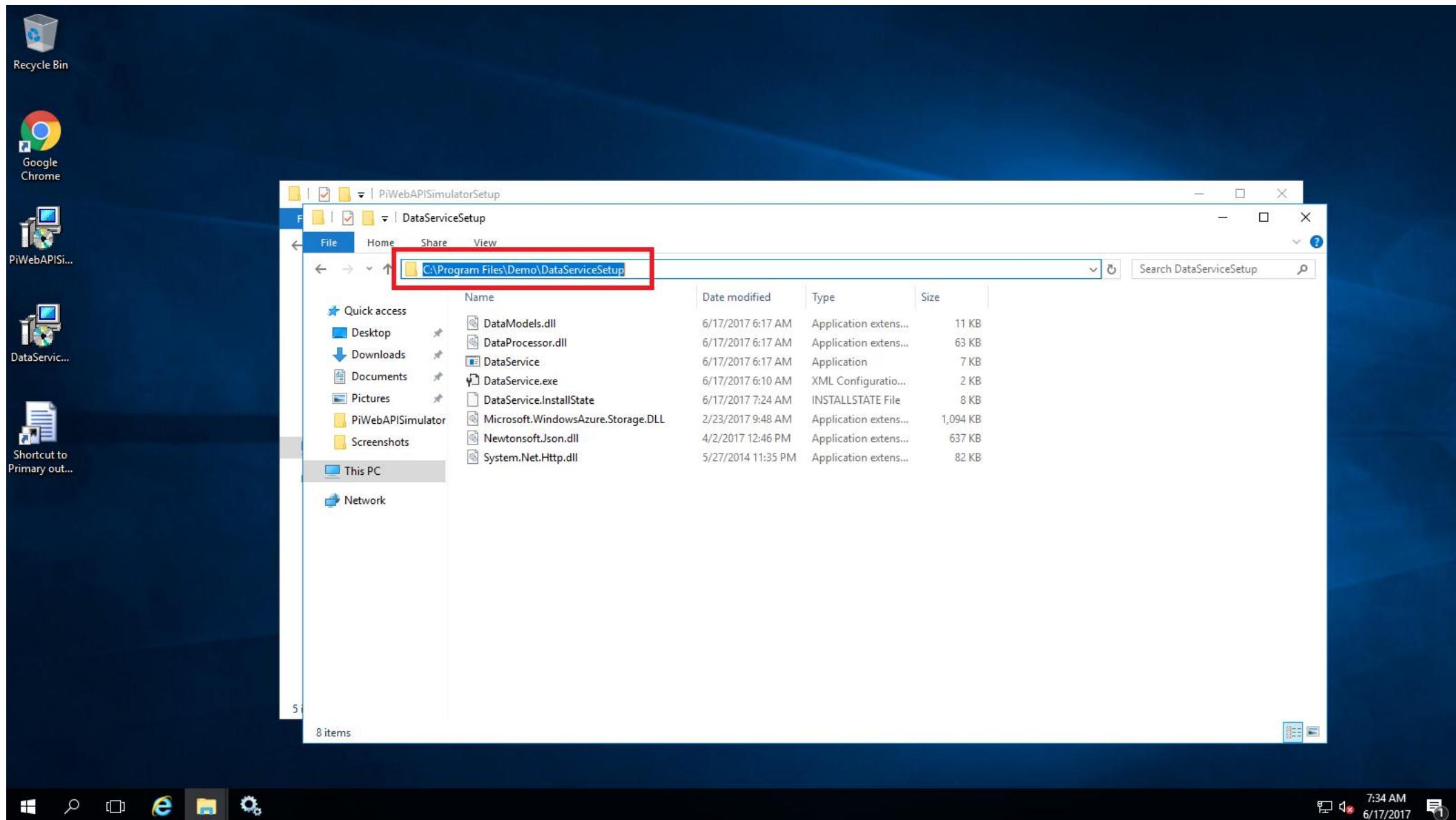


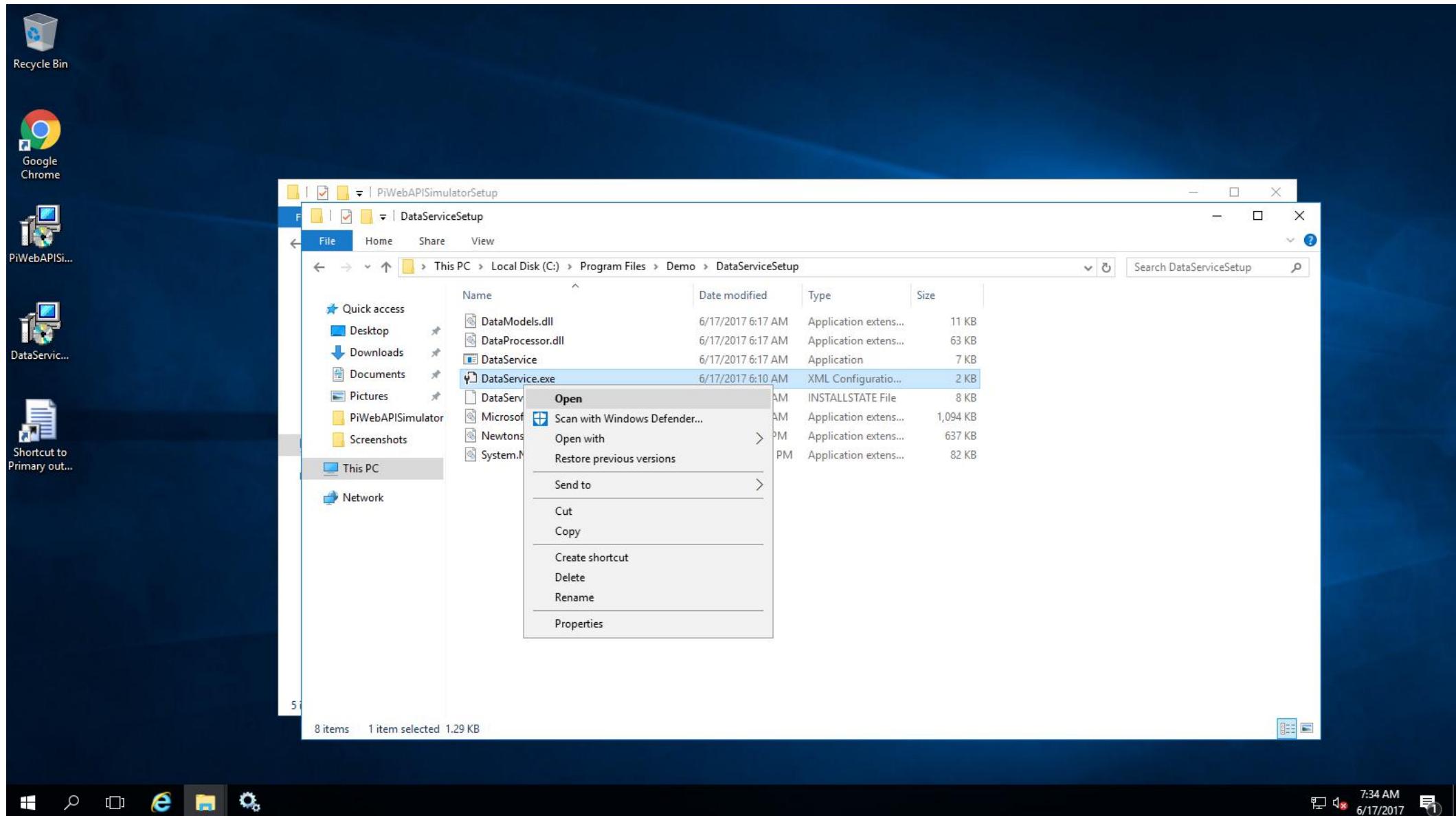


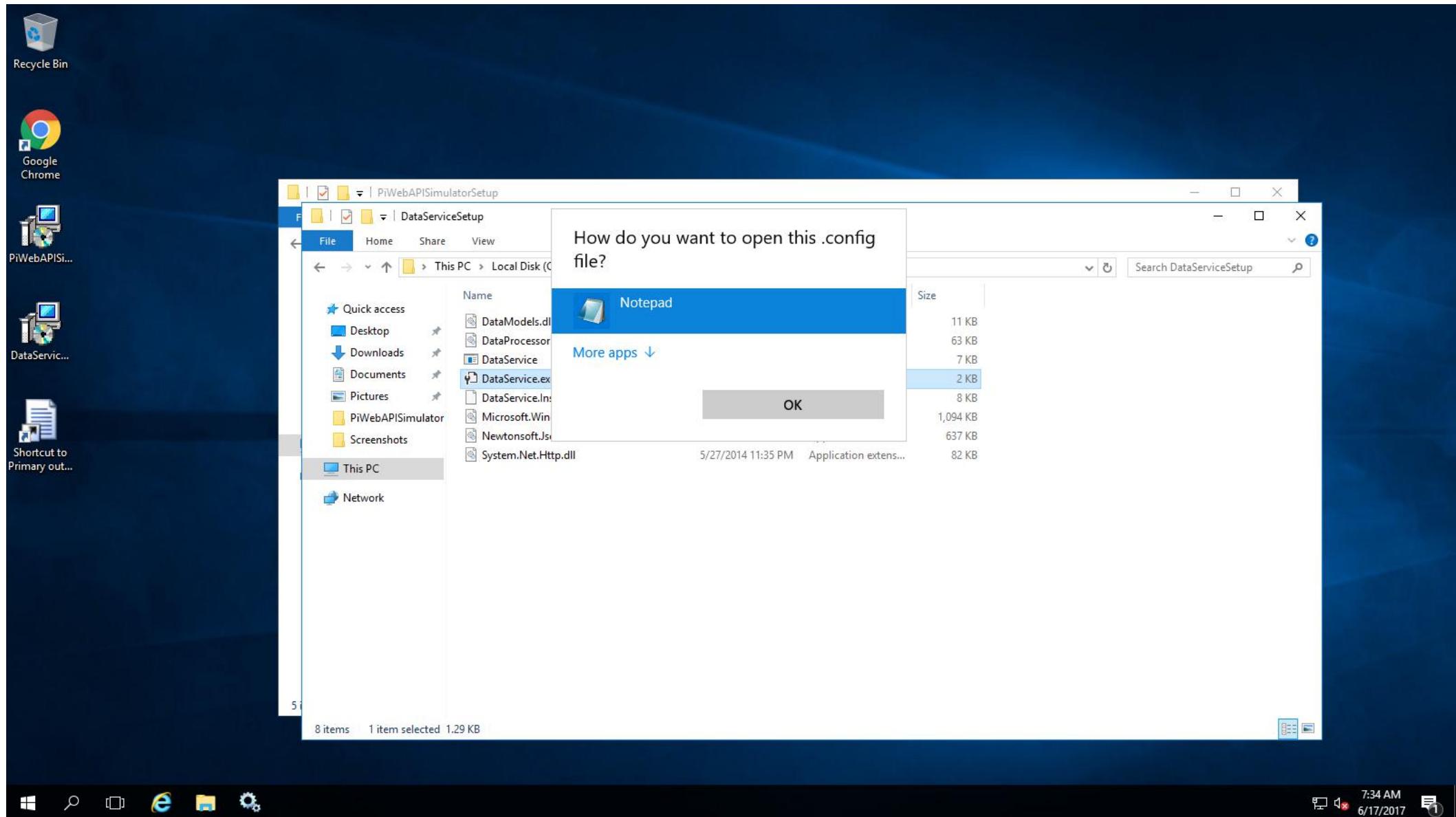




# Configure Data Service Utility







# Data Service Utility - get Database connection string

Dashboard - Microsoft A   Settings - Microsoft Azure   New Tab

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempSQLServerVM/overview

ShettyShetty

**Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM**

Search resources

**DeployDemo Resource group**

New

- Overview
- Activity log
- Access control (IAM)
- Tags

SETTINGS

- Quickstart
- Resource costs
- Deployments
- Policies
- Properties
- Locks
- Automation script

MONITORING

- Metrics
- Alert rules

33 items

NAME	TYPE	LOCATION
PIVMNic	Network interface	West Central US
SQLNSG	Network security group	West Central US
SQLPublicIP	Public IP address	West Central US
sqlserveriz3uhyk7pimrc	SQL server	West Central US
<b>emdata</b>	SQL database	West Central US
SQLVMNic	Network interface	West Central US
TempPICoreVM	Virtual machine	West Central US
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8ea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US

TempSQLServerVM Virtual machine

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

SETTINGS

- Availability set
- Disks
- Extensions
- Network interfaces
- Size
- Backup
- Properties
- Locks
- Automation script

Show

DataServiceSetup.msi

Type here to search

6:05 PM 6/17/2017

ShettyShetty

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Sql/servers/sqlserveriz3uhyk7pimrc/databases/emdata/overview

Microsoft Azure Resource groups > DeployDemo > emdata

Search resources

New

Dashboard

All resources

Resource groups

App Services

SQL databases

SQL data warehouses

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directo...

Monitor

Security Center

Billing

emdata SQL database

Overview

Activity log

Tags

Diagnose and solve problems

SETTINGS

Quick start

Pricing tier (scale DTUs)

Geo-Replication

Auditing & Threat Detection

Dynamic Data Masking

Transparent data encryption

Sync to other databases

Properties

Locks

Automation script

Tools Copy Restore Export Set server firewall Delete

Essentials

Resource group DeployDemo

Status Online

Location West Central US

Subscription name CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Server name **sqlserveriz3uhyk7pimrc.database.windows.net**

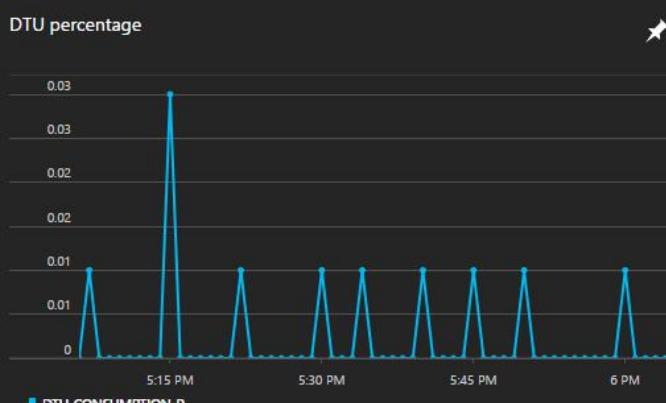
Connection strings Show database connection strings

Pricing tier S2 Standard (50 DTUs)

Geo-Replication role Not configured

Monitoring

DTU percentage



DTU CONSUMPTION P...

0.03  
0.02  
0.01  
0

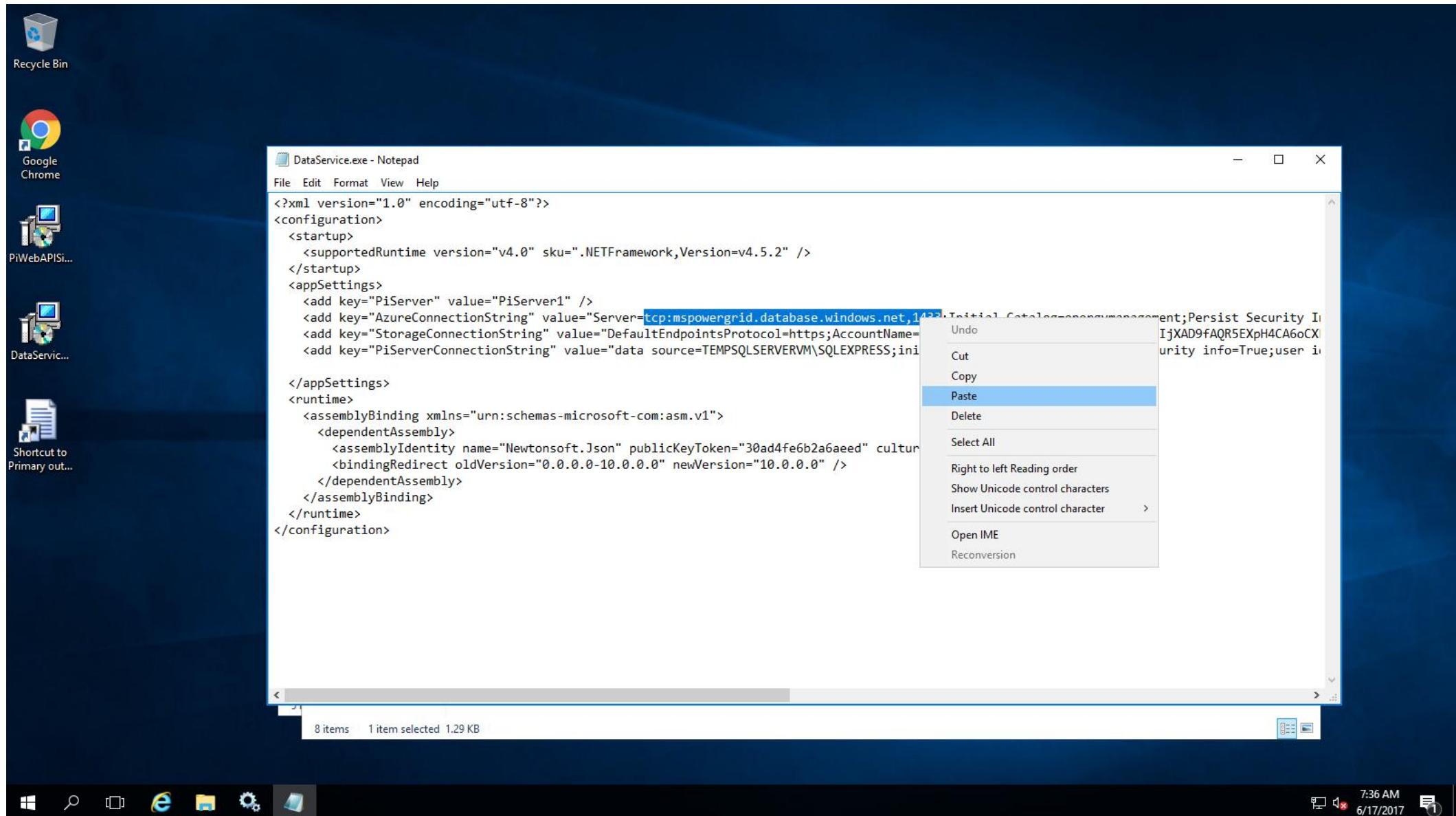
5:15 PM 5:30 PM 5:45 PM 6 PM

Show all

DataServiceSetup.msi

Type here to search

6:05 PM 6/17/2017



Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Sql/servers/sqlserveriz3uhyk7pimrc/databases/emdata/overview

Microsoft Azure Resource groups > DeployDemo > emdata

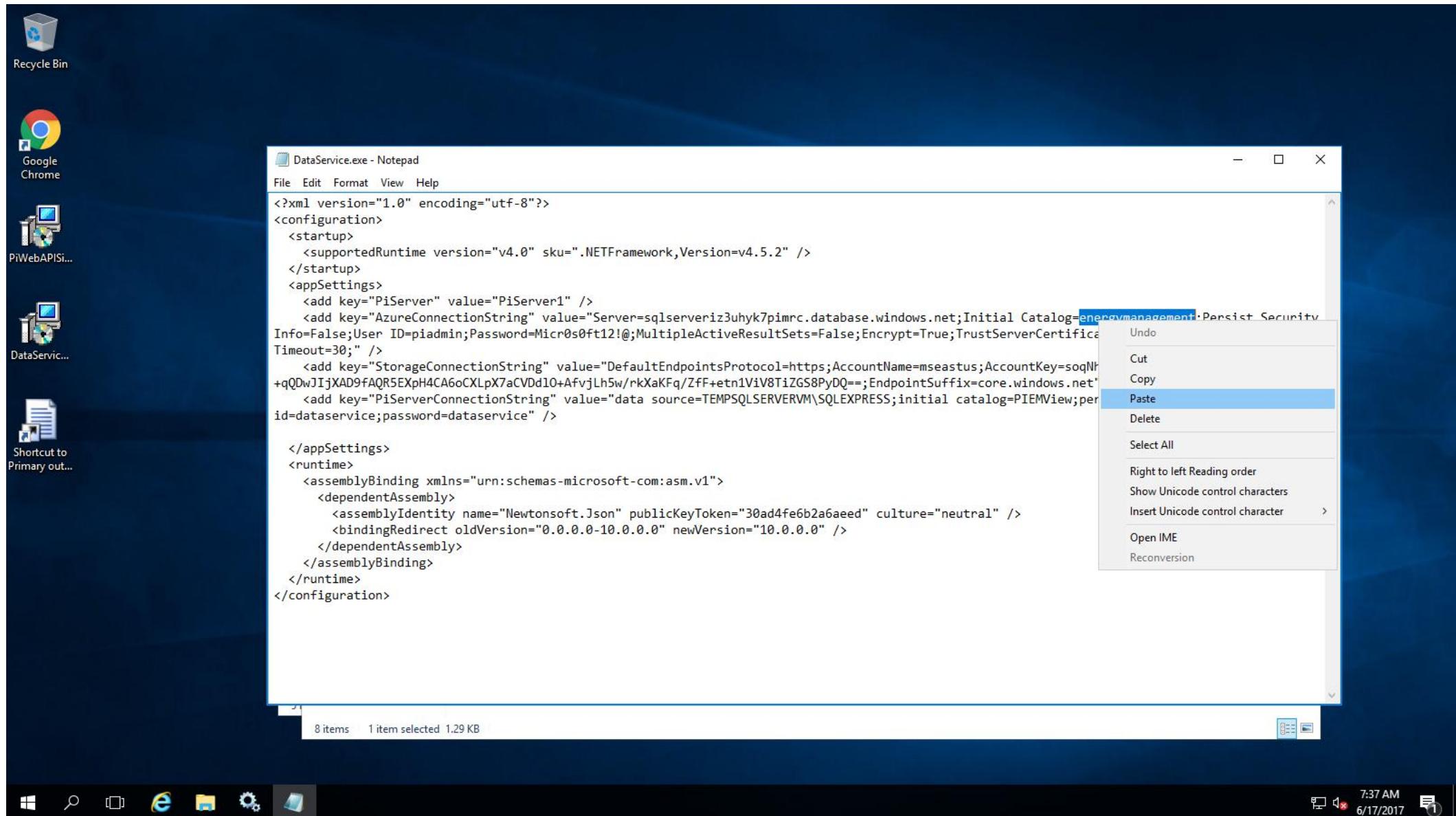
Search resources

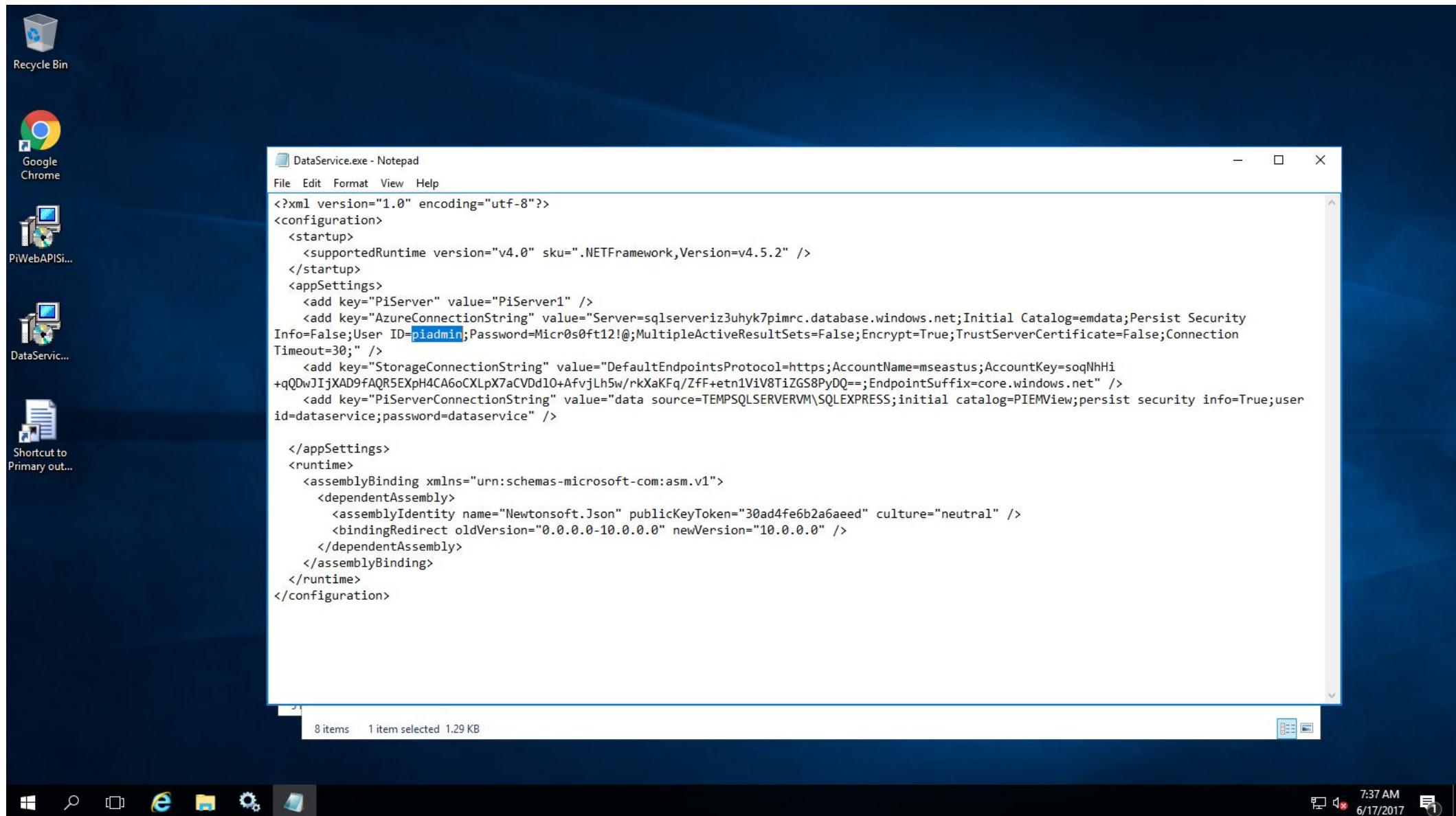
Copy Search Google for "emdata" Ctrl+C  
Print... Ctrl+P  
Copy Restore Export Set server firewall Delete  
SpeakIt! Ctrl+Shift+I  
Inspect Status Online Location West Central US Subscription name CSU Pilot Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a  
Tags Diagnose and solve problems  
SETTINGS Quick start Pricing tier (scale DTUs) Geo-Replication Auditing & Threat Detection Dynamic Data Masking Transparent data encryption Sync to other databases Properties Locks Automation script  
Monitoring DTU percentage  
DTU CONSUMPTION P...  
Show all

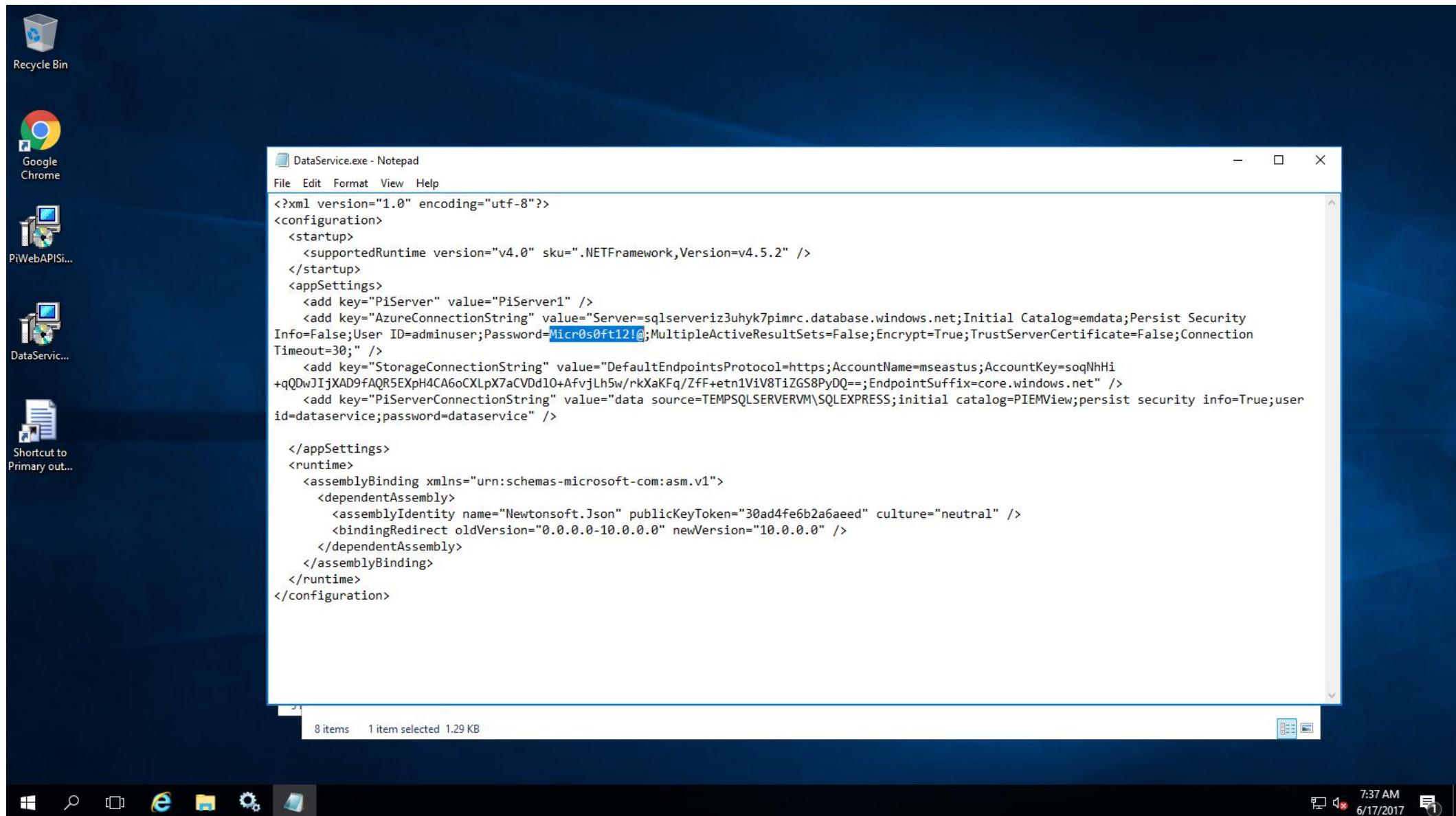
DataServiceSetup.msi

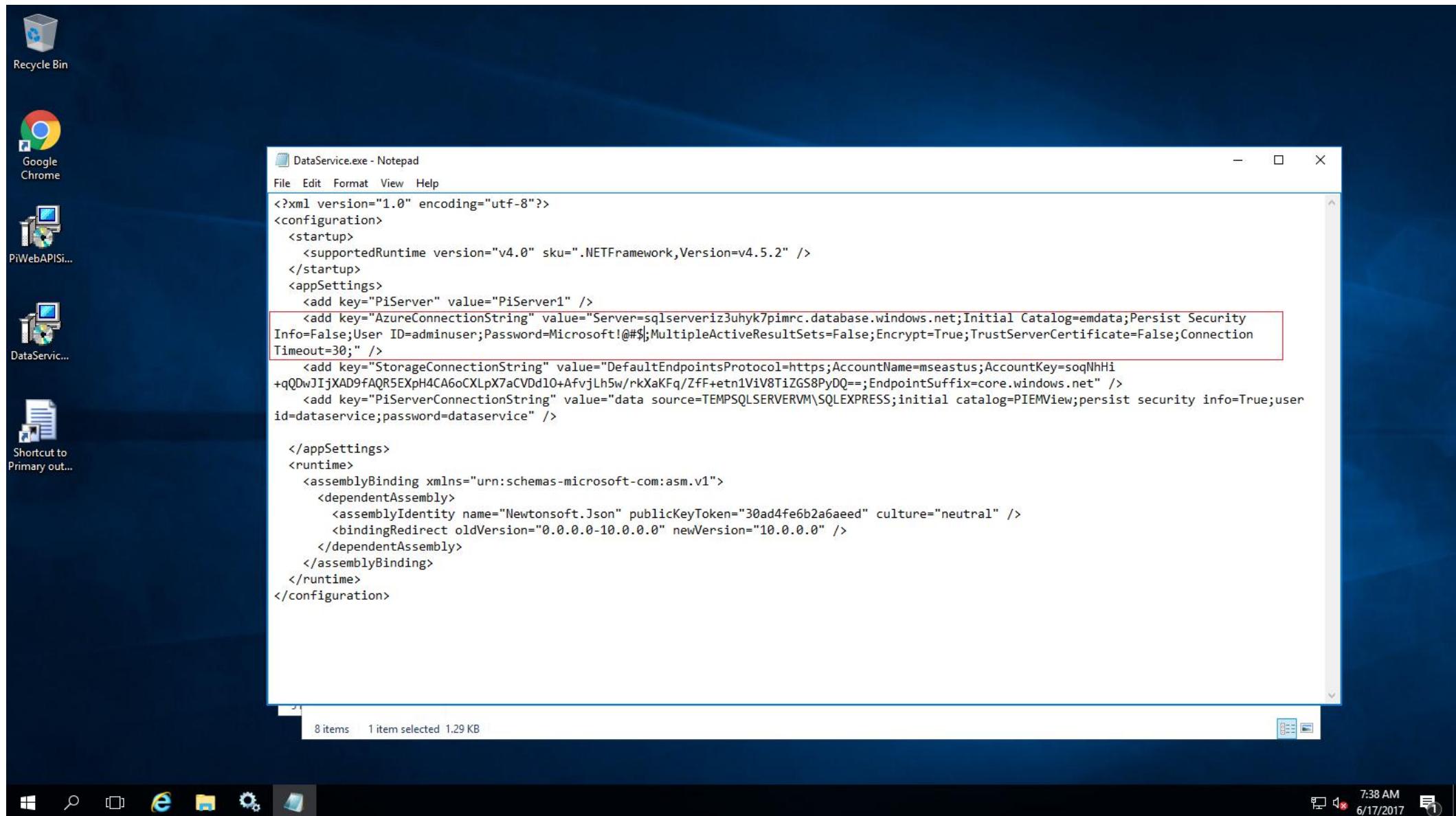
Type here to search

6:07 PM 6/17/2017

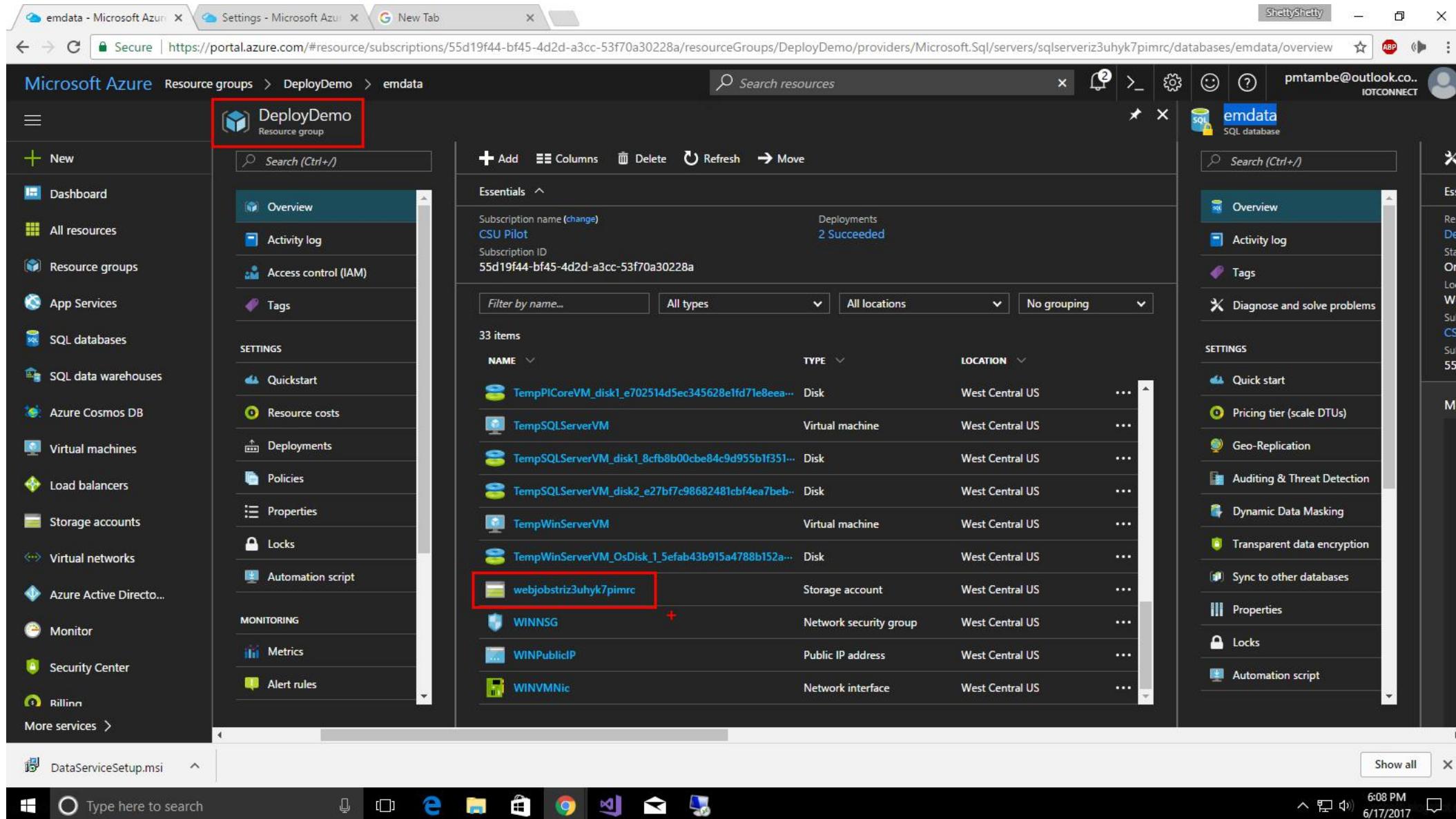








# Data Service Utility - Get Storage Account details



The screenshot shows the Microsoft Azure portal interface. The left sidebar lists various services: New, Dashboard, All resources, Resource groups, App Services, SQL databases, SQL data warehouses, Azure Cosmos DB, Virtual machines, Load balancers, Storage accounts, Virtual networks, Azure Active Directo..., Monitor, Security Center, Billing, and More services >. The main content area shows the 'DeployDemo' resource group under 'Resource groups'. A red box highlights the 'DeployDemo' icon in the top navigation bar. Another red box highlights the 'webjobstrizuhyk7pimrc' storage account in the list of resources.

**Microsoft Azure Resource groups > DeployDemo > emdata**

**Search resources**

**Essentials**

Subscription name (change) CSU Pilot  
Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Deployments 2 Succeeded

Filter by name... All types All locations No grouping

33 items

NAME	TYPE	LOCATION
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8ea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US
TempWinServerVM	Virtual machine	West Central US
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US
<b>webjobstrizuhyk7pimrc</b>	Storage account	West Central US
WINNSG	Network security group	West Central US
WINPublicIP	Public IP address	West Central US
WINVMNic	Network interface	West Central US

Show all

DataServiceSetup.msi

Type here to search

6:08 PM 6/17/2017

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Storage/storageAccounts/webjobstriz3uhyk7pimrc/overview

Microsoft Azure Resource groups > DeployDemo > webjobstriz3uhyk7pimrc

Search resources

Copy Ctrl+C  
Search Google for "webjobstriz3uhyk7pimrc"  
Print... Ctrl+P

SpeakIt!

Inspect Ctrl+Shift+I

Status  
Primary: Available  
Location  
West Central US  
Subscription name (change)  
CSU Pilot  
Subscription ID  
55d19f44-bf45-4d2d-a3cc-53f70a30228a

Performance  
Standard  
Replication  
Locally-redundant storage (LRS)

Services

Blobs Files Tables Queues

Monitoring

Total requests

1.2K  
1K  
0.8K  
0.6K  
0.4K

Total egress

300kB  
200kB  
100kB  
0kB

Average E2E latency

6  
4  
2  
0

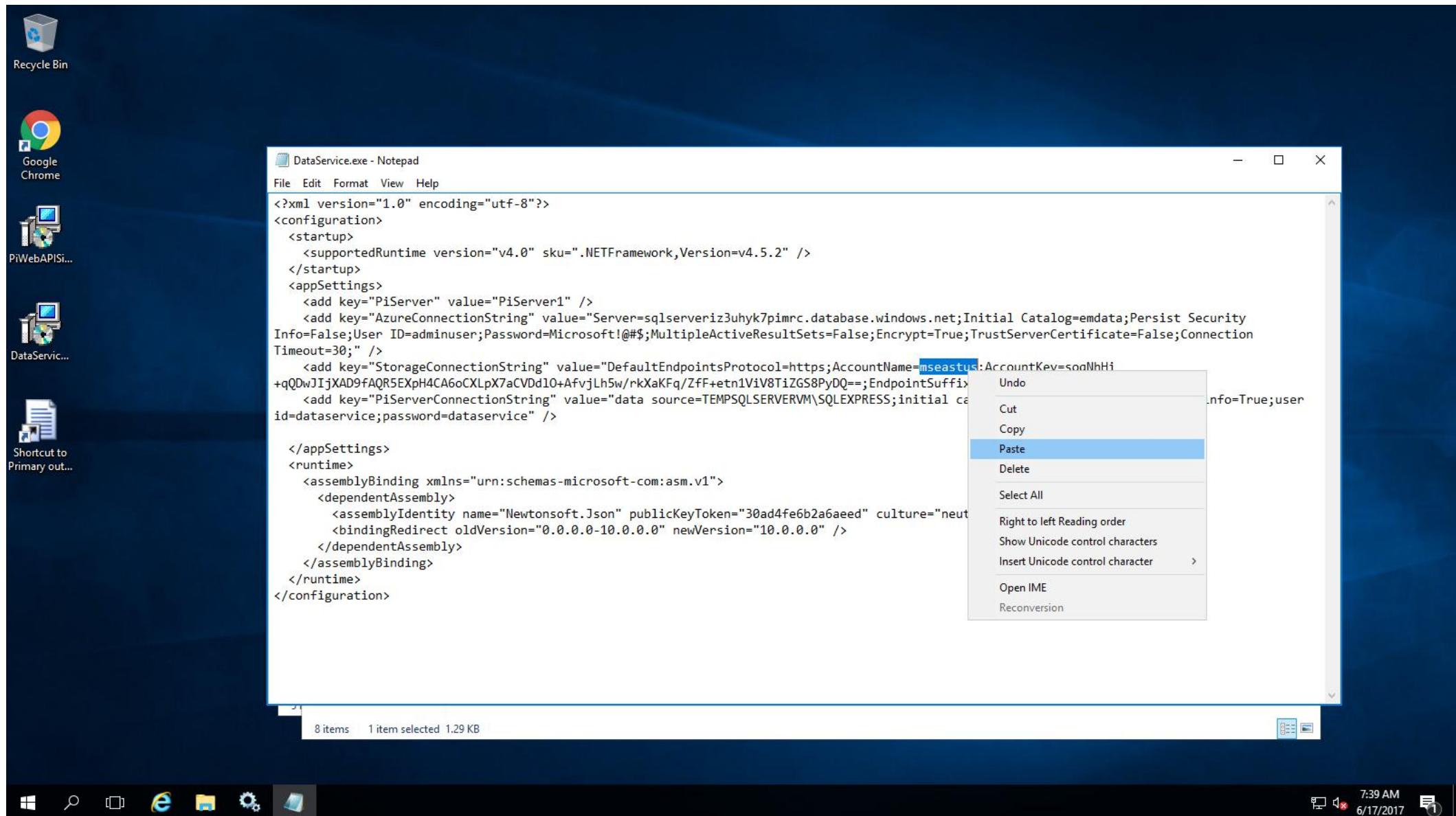
Jun 17 12 PM

Show all

DataServiceSetup.msi

Type here to search

6:08 PM 6/17/2017



Access keys - Microsoft | Settings - Microsoft Azure | New Tab

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Storage/storageAccounts/webjobstriz3uhyk7pimrc/keys

Microsoft Azure Resource groups > DeployDemo > webjobstriz3uhyk7pimrc - Access keys

Search resources

pmtambe@outlook.co... IOTCONNECT

**webjobstriz3uhyk7pimrc - Access keys**

Storage account

Search (Ctrl+ /)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

Access keys (highlighted with red box)

Configuration

Shared access signature

Properties

Locks

Automation script

BLOB SERVICE

Containers

CORS

Use access keys to authenticate your applications when making requests to this Azure storage account. Store your access keys securely - for example, using Azure Key Vault - and don't share them. We recommend regenerating your access keys regularly. You are provided two access keys so that you can maintain connections using one key while regenerating the other.

When you regenerate your access keys, you must update any Azure resources and applications that access this storage account to use the new keys. This action will not interrupt access to disks from your virtual machines. [Learn more](#)

Storage account name: webjobstriz3uhyk7pimrc

NAME	KEY	CONNECTION STRING
key1	rJQZowyZT2uwkM6uxxF/Pf/TaOKbgi3o758FcastNYTf+3iCBKbIX2khEoj...	DefaultEndpointsProtocol=https;AccountName=webjobstriz3uhyk7p... <a href="#">Copy</a> <a href="#">Edit</a> <a href="#">Regenerate</a>
key2	XvYBE/I45kA5BzJlsbeo0a7LCjb8BK9h06RkBLoiMpqx6c6bR0xNeb8Zr...	DefaultEndpointsProtocol=https;AccountName=webjobstriz3uhyk7p... <a href="#">Copy</a> <a href="#">Edit</a> <a href="#">Regenerate</a>

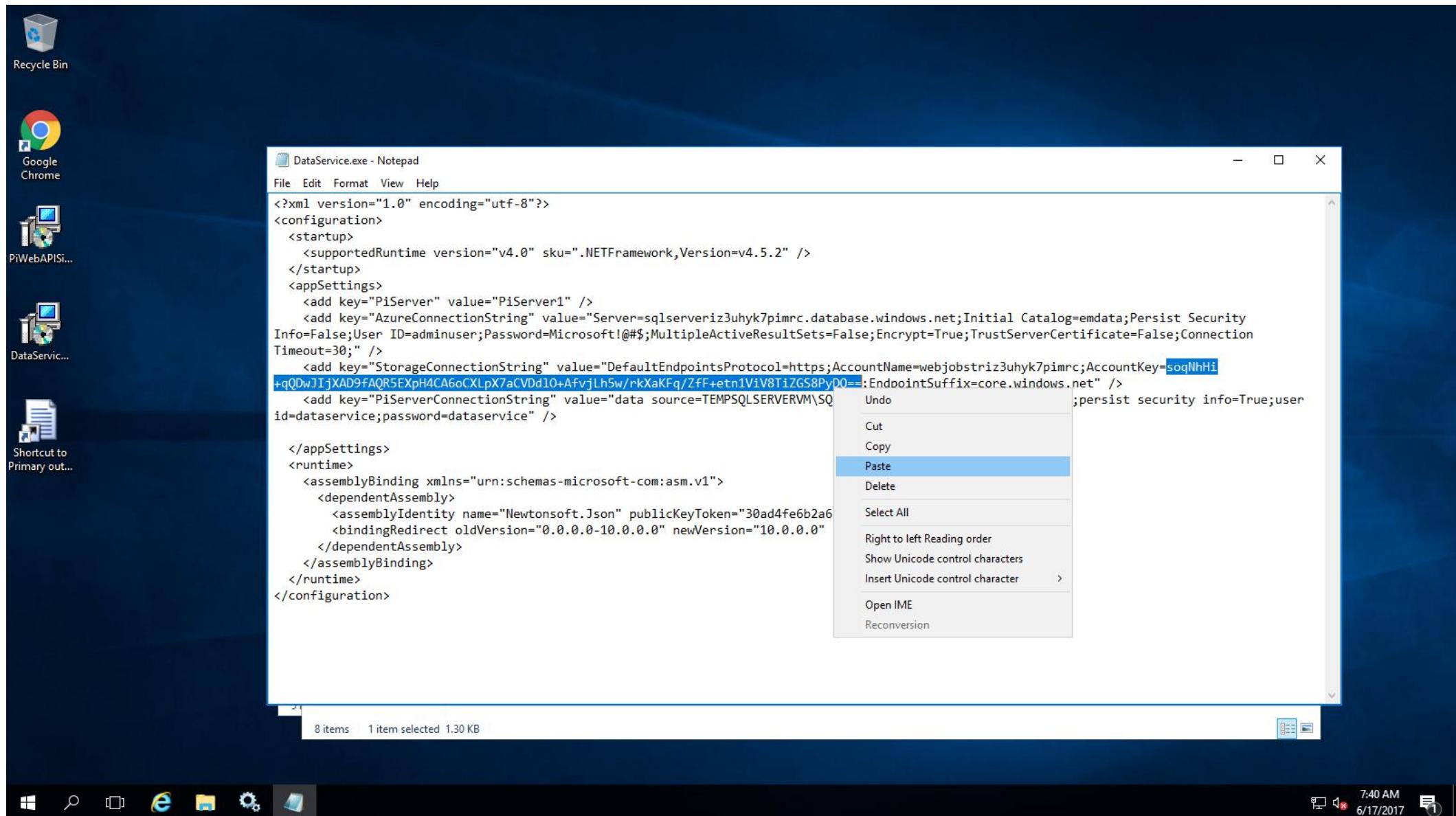
<https://azure.microsoft.com/documentation/articles/storage-create-storage-account/#regenerate-storage-access-keys>

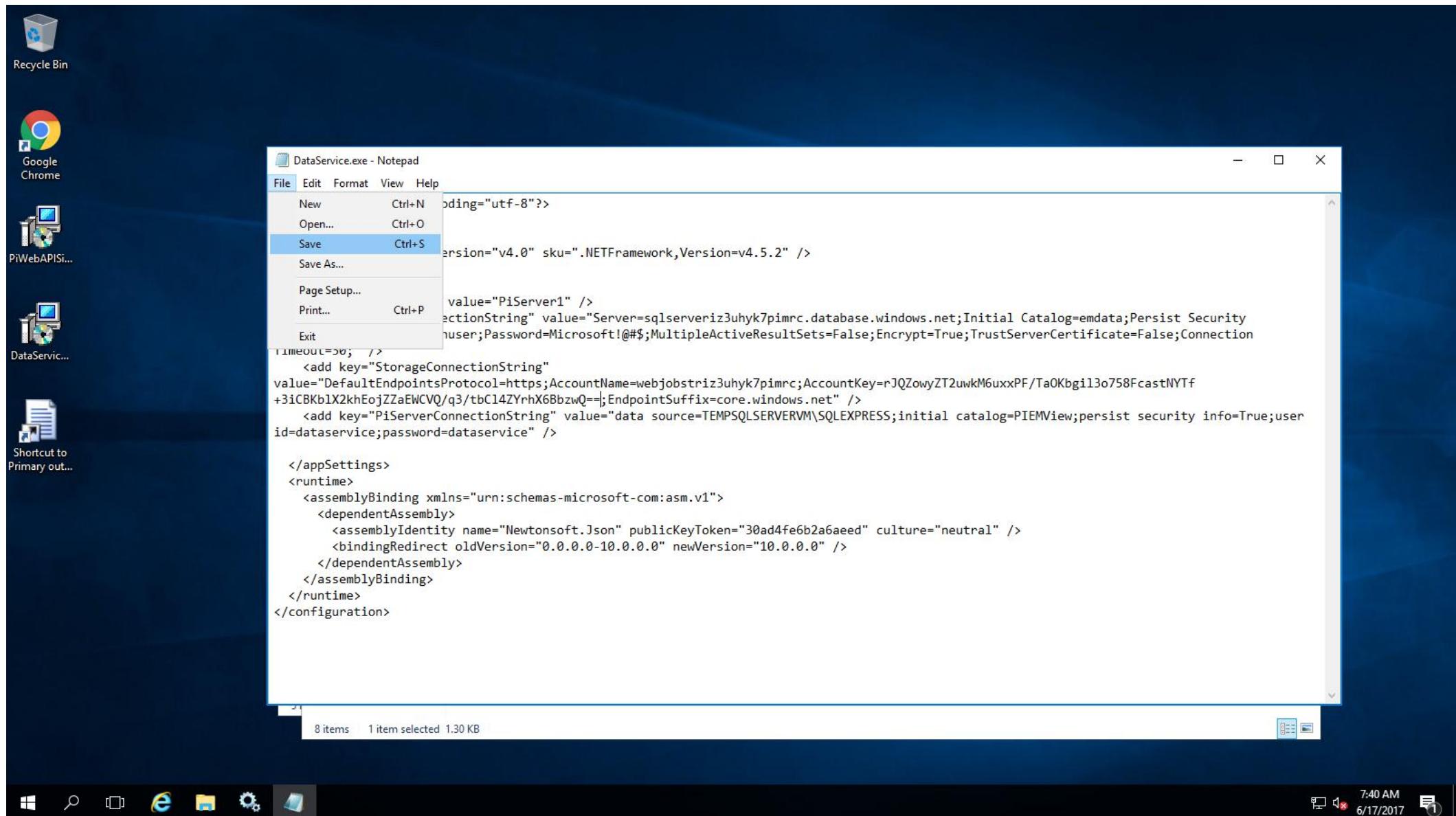
DataServiceSetup.msi

Show all

Type here to search

6:09 PM 6/17/2017





Dashboard - Microsoft A   Settings - Microsoft Azur   ShettyShetty

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempSQLServerVM/overview

Microsoft Azure Resource groups > DeployDemo > TempSQLServerVM

Search resources

DeployDemo Resource group

Add Columns Delete Refresh Move

Essentials

Subscription name (change) CSU Pilot Deployments 2 Succeeded

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Filter by name... All types All locations No grouping

33 items

NAME	TYPE	LOCATION
sqlserveriz3uhyk7pimrc	SQL server	West Central US
emdata	SQL database	West Central US
SQLVMNic	Network interface	West Central US
<b>TempPICoreVM</b>	Virtual machine	West Central US
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8ea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US
TempSQLServerVM_disk1_8cfb8b00cbe84c9d955b1f351...	Disk	West Central US
TempSQLServerVM_disk2_e27bf7c98682481cbf4ea7beb...	Disk	West Central US
TempWinServerVM	Virtual machine	West Central US
TempWinServerVM_OsDisk_1_5efab43b915a4788b152a...	Disk	West Central US
webjobstriz3uhyk7pimrc	Storage account	West Central US

TempSQLServerVM Virtual machine

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

SETTINGS Availability set Disks Extensions Network interfaces Size Backup Properties Locks Automation script

SCHEDULES

Dashboard - Microsoft A   Settings - Microsoft Azur

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempPICoreVM/overview

Microsoft Azure Resource groups > DeployDemo > TempPICoreVM

Search resources

TempPICoreVM Virtual machine

New

Dashboard All resources Resource groups App Services SQL databases SQL data warehouses Azure Cosmos DB Virtual machines Load balancers Storage accounts Virtual networks Azure Active Directo... Monitor Security Center Billing Help + support More services >

Connect Start Restart Stop Capture Move Delete Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Availability set Disks Extensions Network interfaces Size Backup Properties Locks Automation script

SCHEDULES

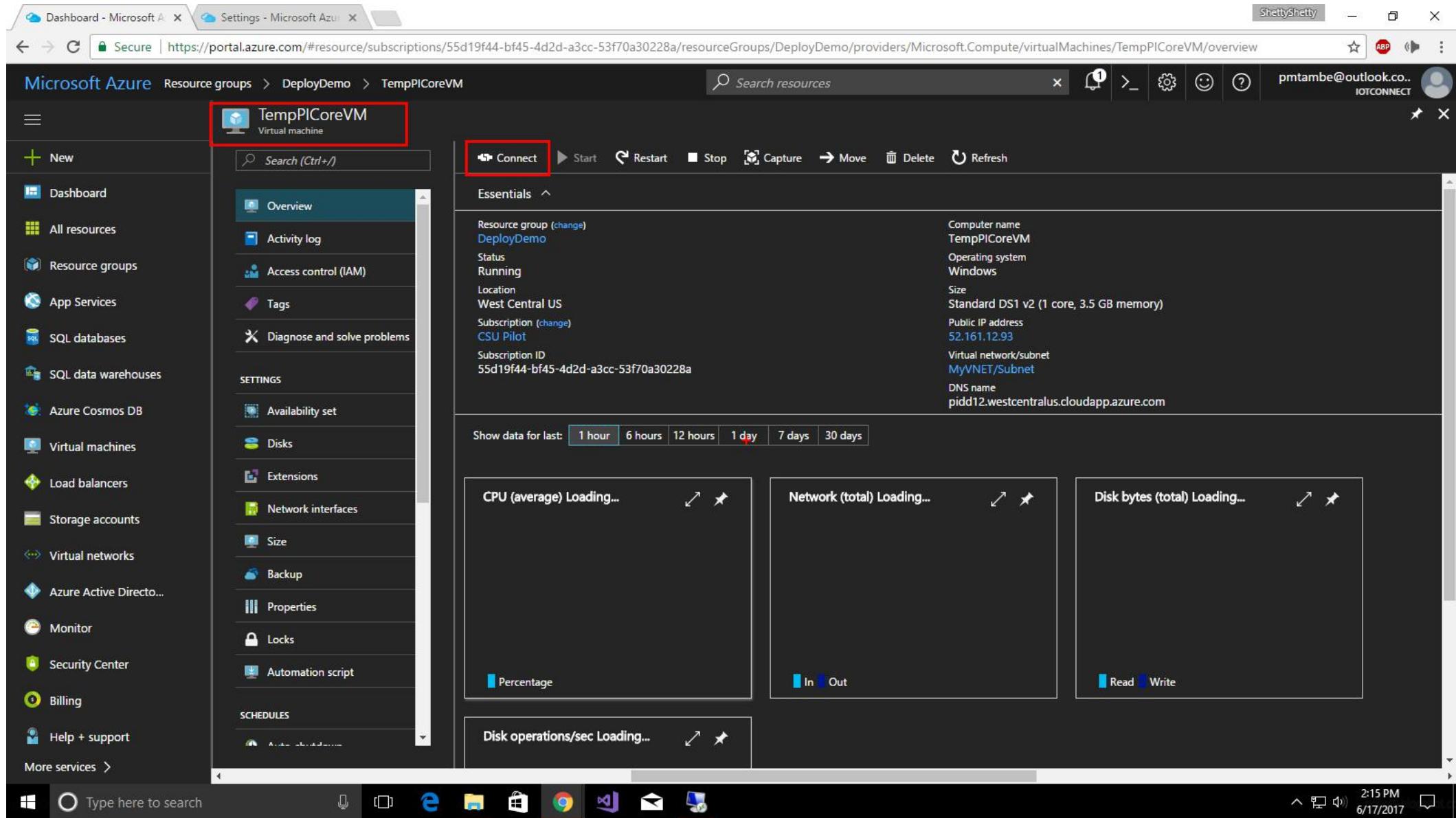
Resource group (change) DeployDemo Status Running Location West Central US Subscription (change) CSU Pilot Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a Computer name TempPICoreVM Operating system Windows Size Standard DS1 v2 (1 core, 3.5 GB memory) Public IP address 52.161.12.93 Virtual network/subnet MyVNET/Subnet DNS name pidd12.westcentralus.cloudapp.azure.com

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average) Loading... Percentage ↗ ⚡ In Out Disk operations/sec Loading... ↗ ⚡ Read Write Network (total) Loading... ↗ ⚡

Disk bytes (total) Loading... ↗ ⚡

Type here to search 2:15 PM 6/17/2017



Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempPICoreVM/overview

ShettyShetty

Microsoft Azure Resource Group DeployDemo

New

File Home Share View Manage

Picture Tools File Explorer

Quick access

Frequent folders (8)

- Desktop This PC
- Downloads This PC
- Documents This PC
- Pictures This PC
- Apowersoft Free Screen R... This PC\Doc...\\Apowersoft
- AzureResourceGroup1 Local Disk (D):\p...\\Projects
- EM Release Material This PC\Desktop
- Screenshots This PC\Pictures

Recent files (20)

- Screenshot (149) This PC\Pictures\Screenshots
- Screenshot (148) This PC\Pictures\Screenshots
- Screenshot (147) This PC\Pictures\Screenshots
- Screenshot (146) This PC\Pictures\Screenshots
- Screenshot (145) This PC\Pictures\Screenshots
- Screenshot (144) This PC\Pictures\Screenshots
- Screenshot (143) This PC\Pictures\Screenshots
- Screenshot (142) This PC\Pictures\Screenshots

28 items 1 item selected 168 KB

Locks

Automation script

Disk bytes (total)

Percentage

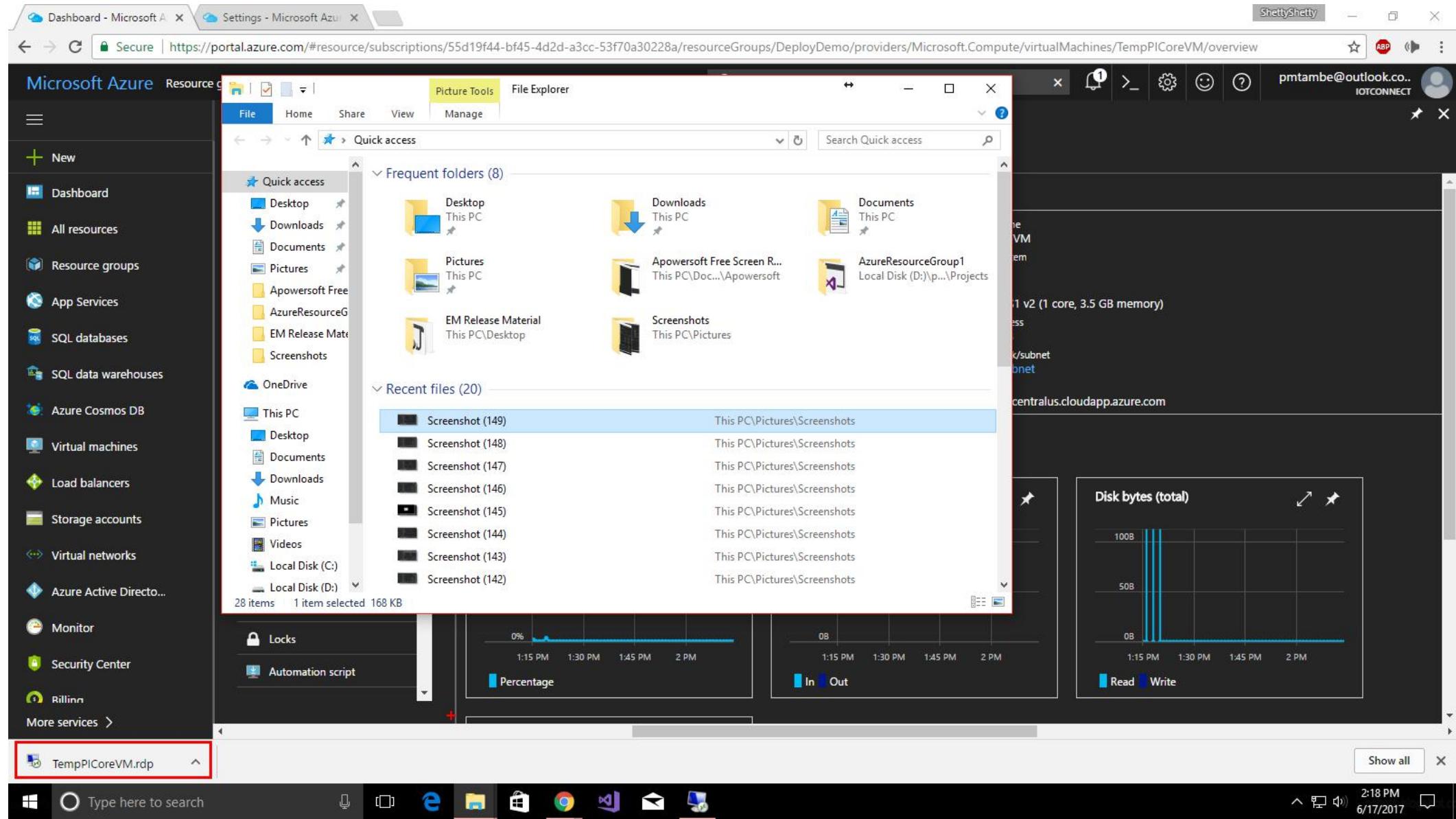
In Out

Read Write

TempPICoreVM.rdp

Type here to search

2:18 PM 6/17/2017



Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempPICoreVM/overview

Microsoft Azure Resource groups > DeployDemo > TempPICoreVM

Search resources

New

- Dashboard
- All resources
- Resource groups
- App Services
- SQL databases
- SQL data warehouses
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directo...
- Monitor
- Security Center
- Billing
- More services >

TempPICoreVM Virtual machine

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

- Availability set
- Disk
- Extensions
- Network interfaces
- Size
- Backup
- Properties
- Locks
- Automation script

Connect Start Restart Stop Capture Move Delete Refresh

Essentials

Resource group (change) DeployDemo

Status Running

Location West US

Subscription CSU F...

Computer name TempPICoreVM

Operating system Windows

Size Standard DS1 v2 (1 core, 3.5 GB memory)

Public IP address 52.161.12.93

Virtual network/subnet MyVNET/Subnet

NS name idd12.westcentralus.cloudapp.azure.com

The publisher of this remote connection can't be identified. Do you want to connect anyway?

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: Unknown publisher

Type: Remote Desktop Connection

Remote computer: 52.161.12.93

Don't ask me again for connections to this computer

+

Connect Cancel

CPU

Disk bytes (total)

Percentage

In Out

Read Write

TempPICoreVM.rdp

Show all

Type here to search

2:18 PM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azure

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempPICoreVM/overview

Microsoft Azure Resource groups > DeployDemo > TempPICoreVM

Search resources

New

Dashboard All resources Resource groups App Services SQL databases SQL data warehouses Azure Cosmos DB Virtual machines Load balancers Storage accounts Virtual networks Azure Active Directo... Monitor Security Center Billing Help + support More services >

TempPICoreVM Virtual machine

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

SETTINGS Availability set Disks Extensions Network interfaces Size Backup Properties Locks Automation script

SCHEDULES

Connect Start Restart Stop Capture Move Delete Refresh

Essentials

Resource group (change)  
DeployDemo

Status  
Running

Location  
West Central US

Subscription  
CSU Pilot

Subscription  
55d19f44

Windows Security

Enter your credentials

These credentials will be used to connect to 52.161.12.93.

adminuser  
\*\*\*\*\*

Remember me

OK Cancel

Computer name  
TempPICoreVM

Operating system  
Windows

Size  
Standard DS1 v2 (1 core, 3.5 GB memory)

Public IP address  
52.161.12.93

Virtual network/subnet  
MyVNET/Subnet

DNS name  
pidd12.westcentralus.cloudapp.azure.com

CPU (avg) Disk bytes (total)

Disk operations/sec

Percentage 100% 50% 0% 1:15 PM 1:30 PM 1:45 PM 2 PM OK Cancel

In Out 100B 50B 0B 1:15 PM 1:30 PM 1:45 PM 2 PM Read Write

Type here to search

2:18 PM 6/17/2017

Server Manager

Server Manager › Dashboard

Dashboard Local Server All Servers

WELCOME TO SERVER MANAGER

QUICK START

1 Configure this local server

2 Add roles and features

3 Add other servers to manage

4 Create a server group

5 Connect this server to cloud services

WHAT'S NEW

LEARN MORE

Hide

ROLES AND SERVER GROUPS

Roles: 0 | Server groups: 1 | Servers total: 1

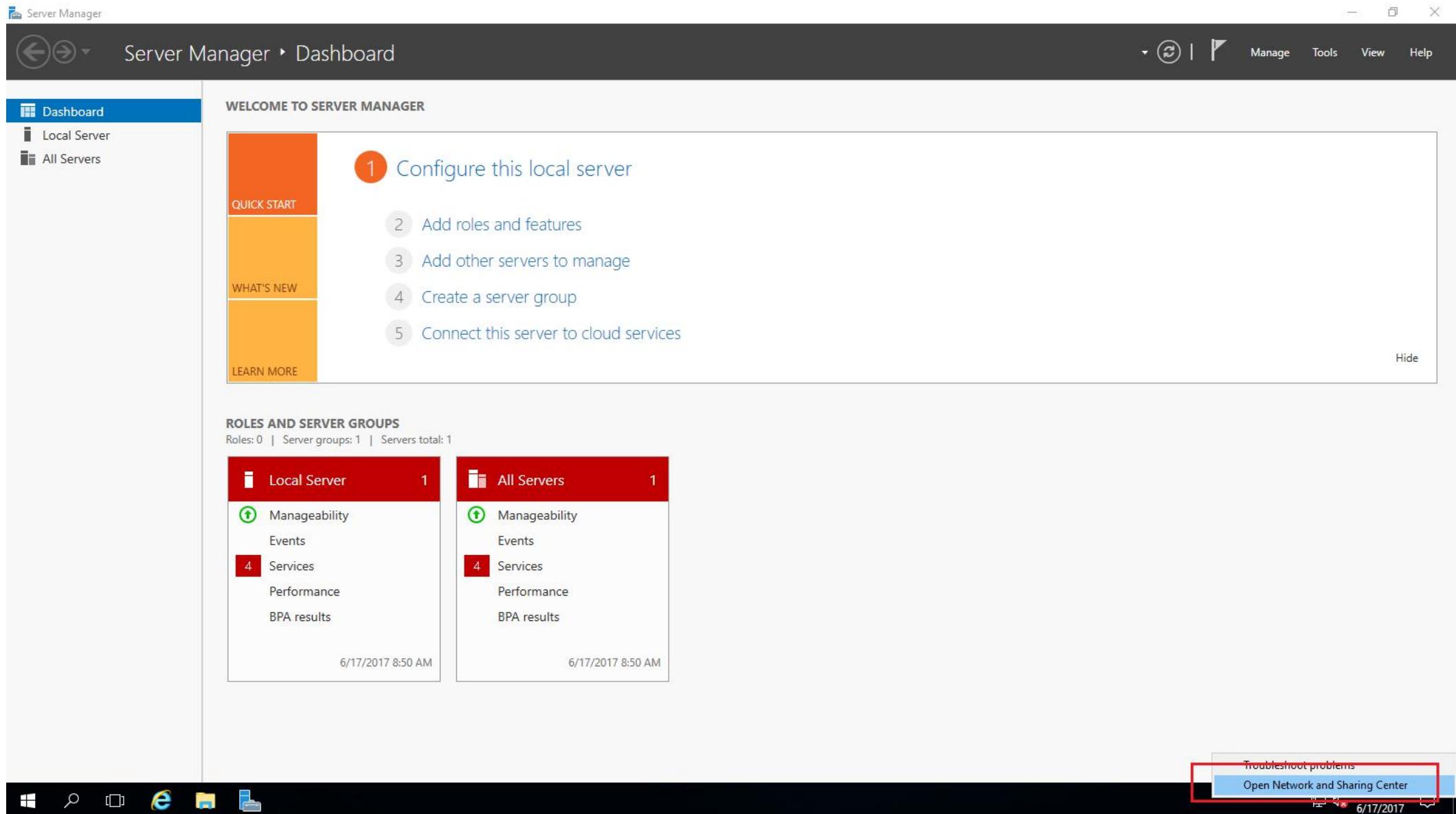
Local Server	All Servers
1	1
Manageability	Manageability
Events	Events
4 Services	4 Services
Performance	Performance
BPA results	BPA results

6/17/2017 8:50 AM 6/17/2017 8:50 AM

Troubleshoot problems

Open Network and Sharing Center

6/17/2017



Server Manager

Server Manager › Dashboard

Dashboard Local Server All Servers

WELCOME TO SERVER MANAGER

Network and Sharing Center

Control Panel Home Change adapter settings Change advanced sharing settings

Network Private network

Access type: Internet  
Connections: [Ethernet 2](#)

View your basic network information and set up connections

View your active networks

Change your networking settings

[Set up a new connection or network](#)  
Set up a broadband, dial-up, or VPN connection; or set up a router or access point.

[Troubleshoot problems](#)  
Diagnose and repair network problems, or get troubleshooting information.

See also

Internet Options Windows Firewall

8:50 AM 6/17/2017

Server Manager

Server Manager › Dashboard

WELCOME TO SERVER MANAGER

Network and Sharing Center

Control Panel Home

Change adapter settings

Change advanced sharing settings

View your active networks

Network

Private network

Ethernet 2 Status

General

Connection

IPv4 Connectivity:	Internet
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	04:07:30
Speed:	10.0 Gbps

Activity

Sent —  — Received

Bytes: 15,725,472 | 36,712,714

Properties (button highlighted with red box)

Disable

Diagnose

Close

See also

Internet Options

Windows Firewall

Control Panel Home

Change adapter settings

Change advanced sharing settings

View your active networks

Network

Private network

Ethernet 2 Status

General

Connection

IPv4 Connectivity:	Internet
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	04:07:30
Speed:	10.0 Gbps

Activity

Sent —  — Received

Bytes: 15,725,472 | 36,712,714

Properties (button highlighted with red box)

Disable

Diagnose

Close

Hide

8:50 AM  
6/17/2017

Server Manager

Server Manager > Dashboard

WELCOME TO SERVER MANAGER

Control Panel Home

Change adapter settings

Change advanced sharing settings

Double click to open

View your active networks

Network

Private network

Set up a new connection

Set up a broadband connection

Troubleshoot problems

Diagnose and repair

Ethernet 2 Properties

Networking

Connect using:

Microsoft Hyper-V Network Adapter #2

Configure...

This connection uses the following items:

- Client for Microsoft Networks
- File and Printer Sharing for Microsoft Networks
- OnS. Packet Scheduler
- Internet Protocol Version 4 (TCP/IPv4)
- Microsoft Network Adapter Multiplexor Protocol
- Microsoft LLDP Protocol Driver
- Internet Protocol Version 6 (TCP/IPv6)

Install... Uninstall Properties

Description

Allows your computer to access resources on a Microsoft network.

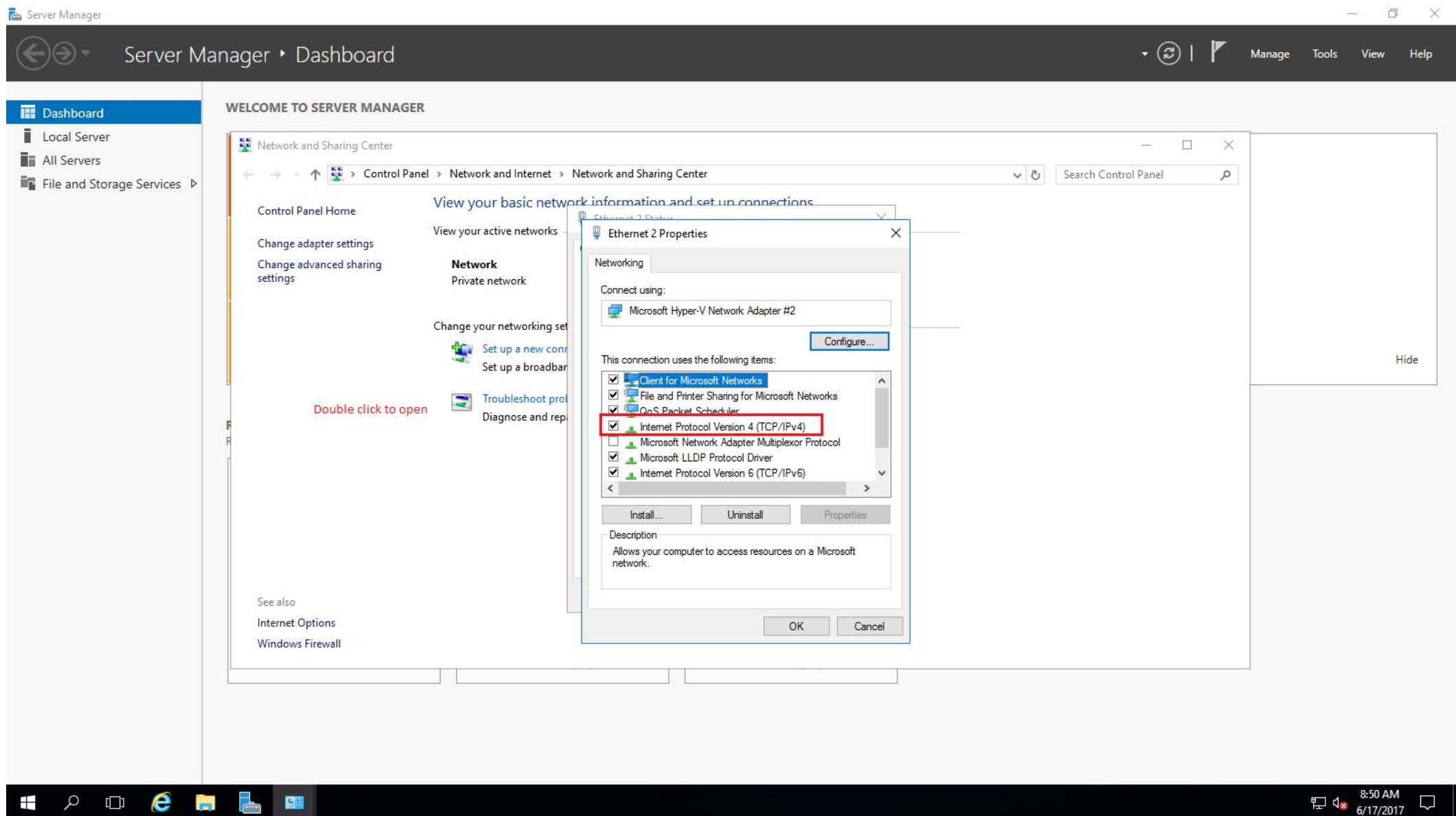
OK Cancel

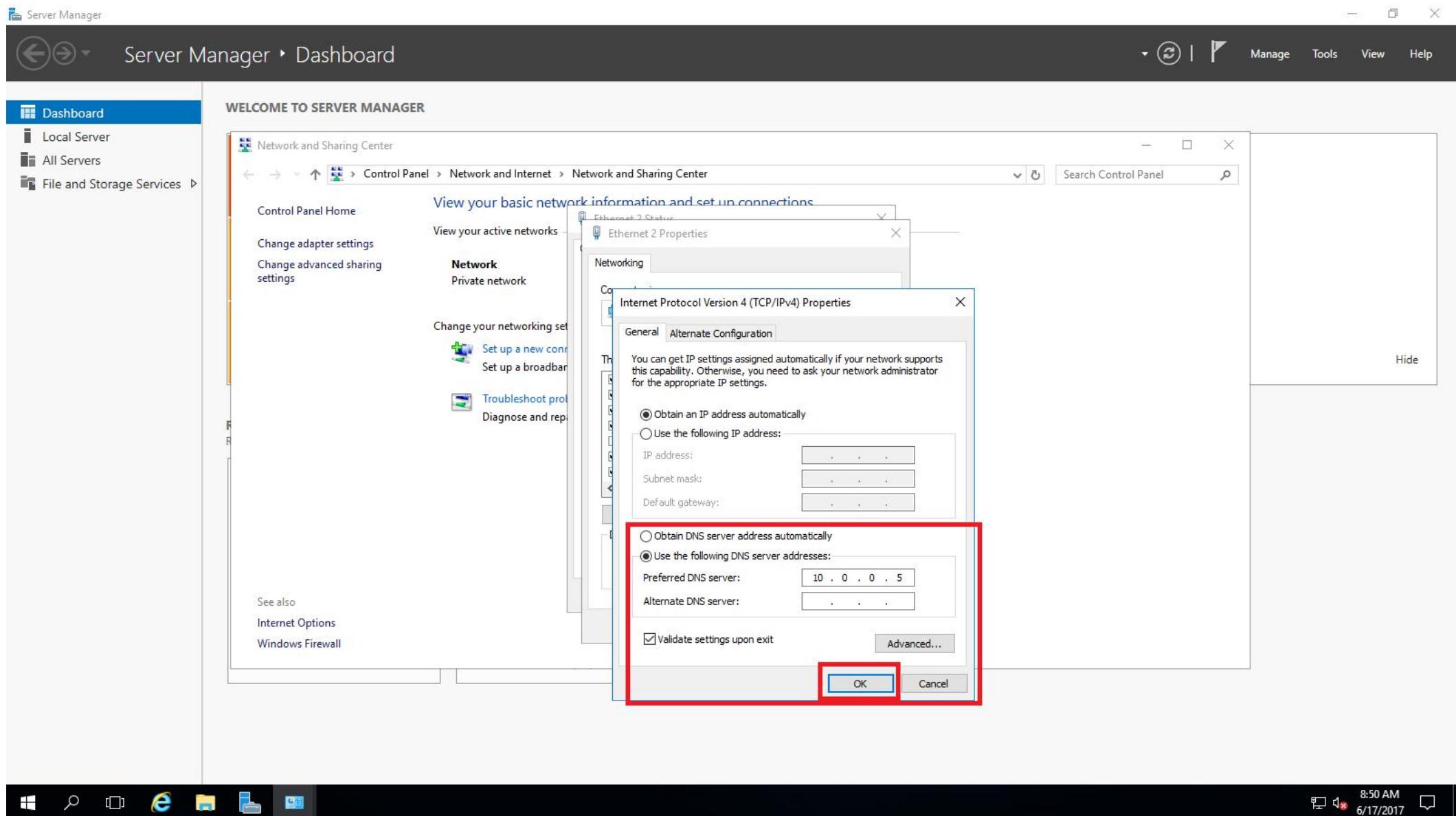
See also

Internet Options

Windows Firewall

8:50 AM 6/17/2017





Server Manager

Server Manager › Dashboard

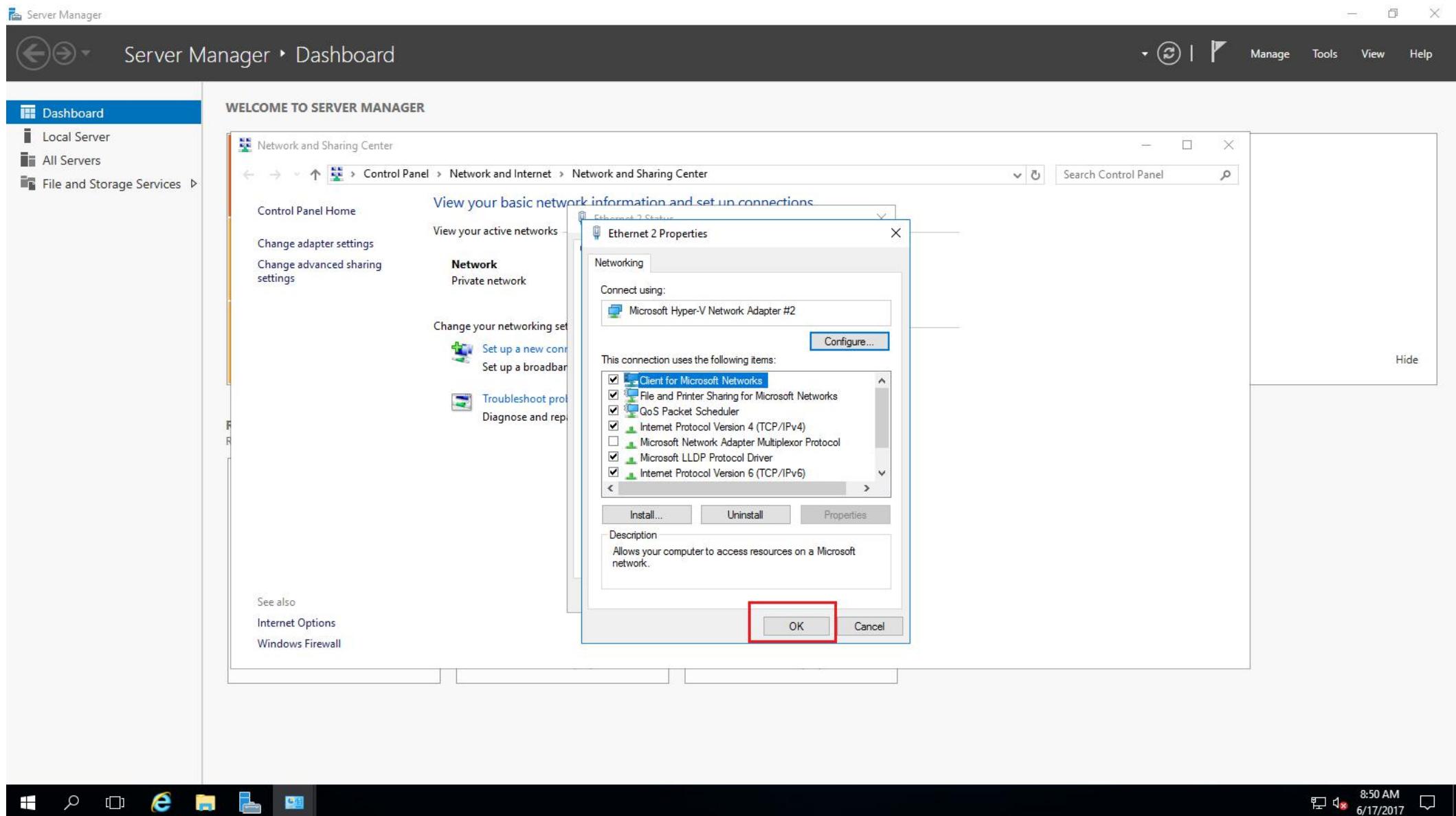
Dashboard Local Server All Servers File and Storage Services

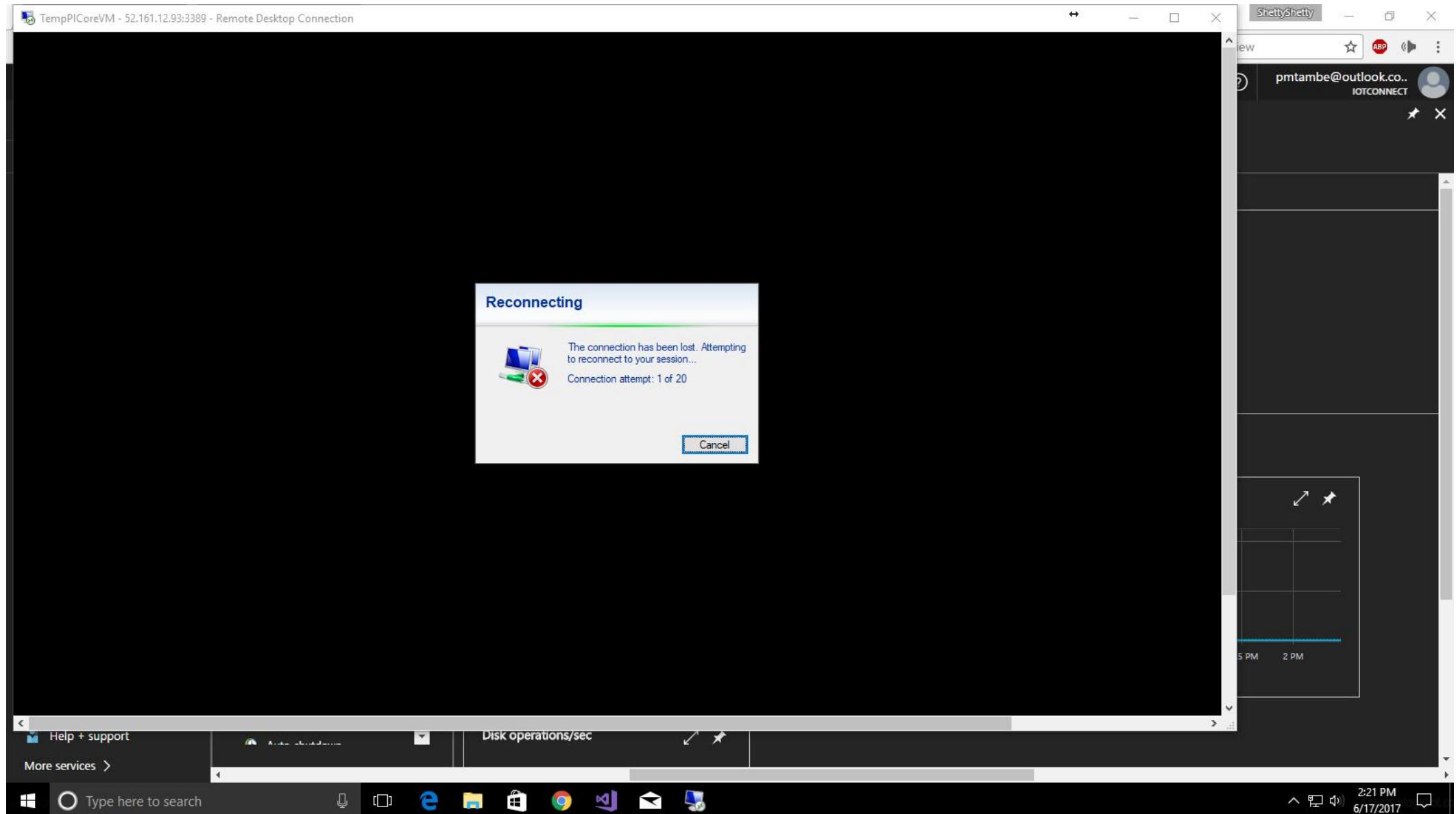
WELCOME TO SERVER MANAGER

Network and Sharing Center Control Panel Home Change adapter settings Change advanced sharing settings View your active networks Network Private network Set up a new connection Set up a broadband connection Troubleshoot problems Diagnose and repair See also Internet Options Windows Firewall

Ethernet 2 Properties Networking Connect using: Microsoft Hyper-V Network Adapter #2 Configure... This connection uses the following items: Client for Microsoft Networks File and Printer Sharing for Microsoft Networks QoS Packet Scheduler Internet Protocol Version 4 (TCP/IPv4) Microsoft Network Adapter Multiplexor Protocol Microsoft LLDP Protocol Driver Internet Protocol Version 6 (TCP/IPv6) Install... Uninstall Properties Description Allows your computer to access resources on a Microsoft network. OK Cancel

8:50 AM 6/17/2017





Dashboard - Microsoft A   Settings - Microsoft Azur

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Compute/virtualMachines/TempPICoreVM/overview

Microsoft Azure Resource groups > DeployDemo > TempPICoreVM

Search resources

TempPICoreVM Virtual machine

New Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

SETTINGS Availability set Disks Extensions Network interfaces Size Backup Properties Locks Automation script

SCHEDULES

Restart Start Stop Capture Move Delete Refresh

Essentials

Resource group (change) DeployDemo

Status Running

Location West Central US

Subscription (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Computer name TempPICoreVM

Operating system Windows

Size Standard DS1 v2 (1 core, 3.5 GB memory)

Public IP address 52.161.12.93

Virtual network/subnet MyVNET/Subnet

DNS name pidd12.westcentralus.cloudapp.azure.com

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

Network (total)

Disk bytes (total)

Disk operations/sec

Type here to search

2:21 PM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azur   Downloads   ShettyShetty

← → C   Chrome | chrome://downloads

Downloads   Search downloads

Today

-  TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462  
[Show in folder](#)
-  TempSQLServerVM.rdp  
blob:https://portal.azure.com/e50d8939-1951-415c-926b-fbe8c391773a  
[Show in folder](#)
-  TempWinServerVM.rdp  
blob:https://portal.azure.com/874e7abb-6b08-499c-8159-dd00c79e8277  
[Show in folder](#)

Yesterday

-  CSUWebApp (1).zip  
<https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...>  
[Show in folder](#)
-  PowerGrid.bacpac  
<https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...>  
[Show in folder](#)

blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462

Windows Type here to search   Microphone   Task View   Edge   File Explorer   Windows Store   Google Chrome   File Manager   Mail   Computer

4:58 PM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azur   Downloads   ShettyShetty

← → C   Chrome | chrome://downloads

Downloads   Search downloads

Today

-  TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462  
[Show in folder](#)
-  Remote Desktop Connection  
**The publisher of this remote connection can't be identified. Do you want to connect anyway?**

This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.

Publisher: Unknown publisher   Type: Remote Desktop Connection  
Remote computer: 52.161.12.93

Don't ask me again for connections to this computer

[Show Details](#)   [Connect](#)   [Cancel](#)

Yesterday

-  CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...  
[Show in folder](#)
-  PowerGrid.bacpac  
https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...  
[Show in folder](#)

Type here to search   4:58 PM   6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azur   Downloads   ShettyShetty

← → C   Chrome | chrome://downloads

Downloads   Search downloads

Today

TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462

Windows Security

Enter your credentials

These credentials will be used to connect to 52.161.12.93.

adminuser  
[REDACTED]

Remember me

More choices

OK   Cancel

Yesterday

CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...

Show in folder

PowerGrid.bacpac  
https://emreleasemtr.blob.core.windows.net/releasemtr/PowerGrid.bacpac?sv=20...

Show in folder

Type here to search   4:58 PM 6/17/2017

Server Manager

Server Manager › Dashboard

Dashboard Local Server All Servers

WELCOME TO SERVER MANAGER

QUICK START AT'S NEW TURN MORE

1 Configure this local server

- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group
- 5 Connect this server to cloud services

Hide

SERVICES AND SERVER GROUPS

Local Server 1 | Server groups: 1 | Servers total: 1

Local Server	1
Manageability	
Events	
Services	
Performance	
BPA results	

All Servers 1

All Servers	1
Manageability	
Events	
Services	
Performance	
BPA results	

System

Device Manager

Network Connections

Disk Management

Computer Management

Command Prompt

Command Prompt (Admin)

Task Manager

Control Panel

File Explorer

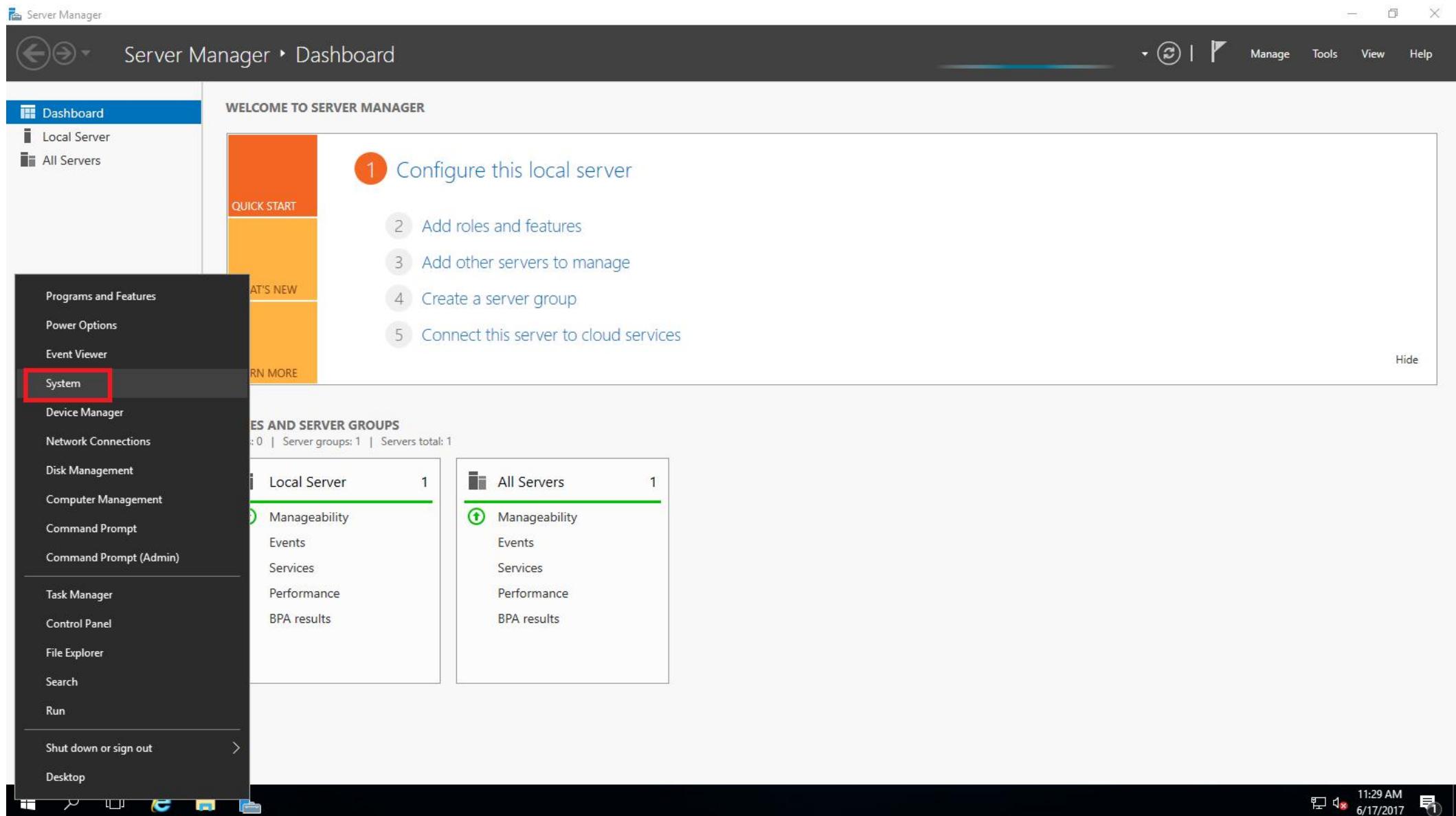
Search

Run

Shut down or sign out

Desktop

11:29 AM 6/17/2017



Server Manager

Server Manager > Dashboard

WELCOME TO SERVER MANAGER

System

Control Panel Home

View basic information about your computer

Windows edition

Windows Server 2016 Datacenter

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Windows Server 2016

Advanced system settings

System

Processor: Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40GHz 2.40 GHz

Installed memory (RAM): 3.50 GB

System type: 64-bit Operating System, x64-based processor

Pen and Touch: No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name: TempPICoreVM

Full computer name: TempPICoreVM

Computer description:

Workgroup: MS

Change settings

Windows activation

Windows is activated [Read the Microsoft Software License Terms](#)

Product ID: 00376-40000-00000-AA947

Change product key

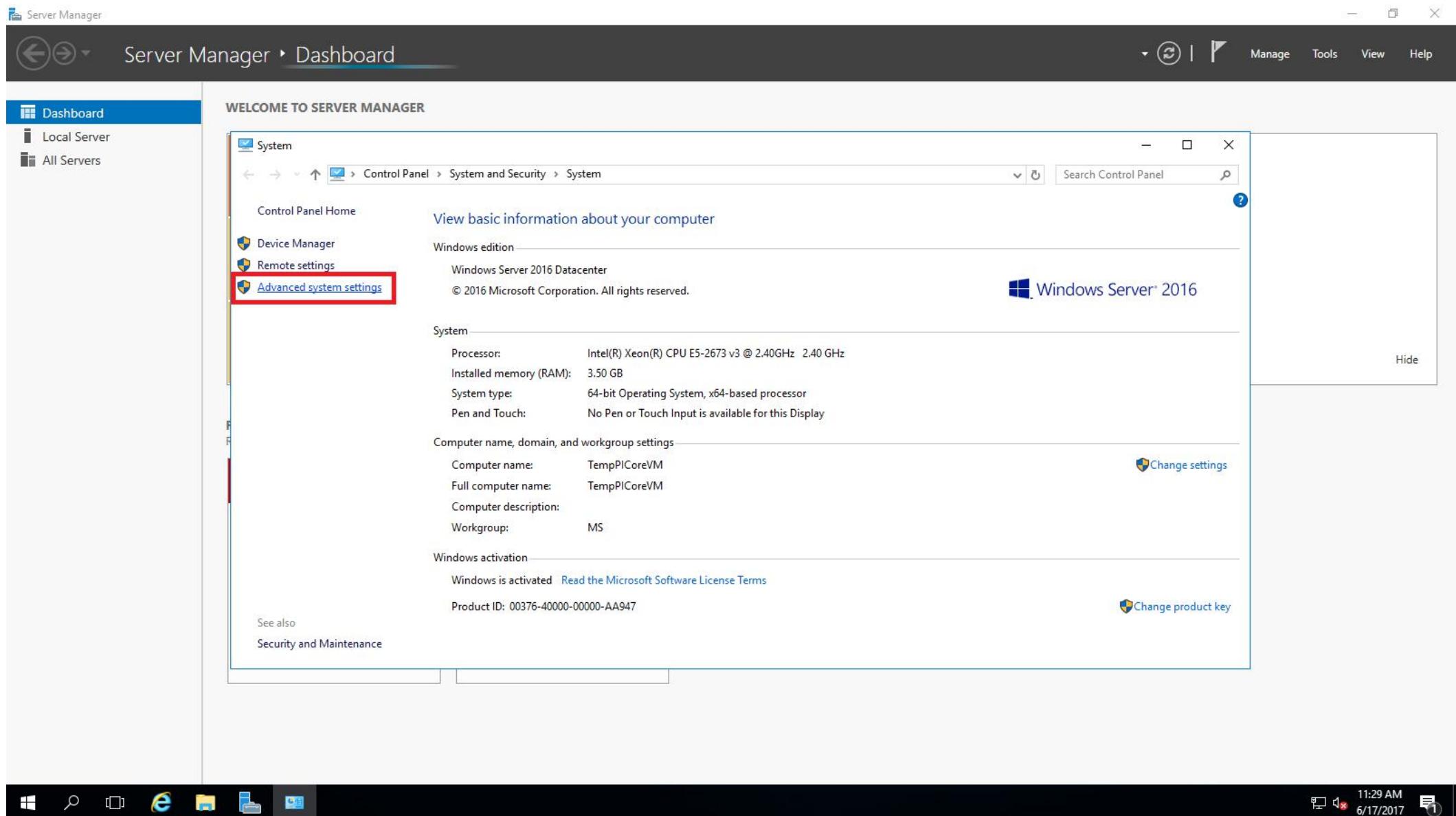
See also

Security and Maintenance

Dashboard Local Server All Servers

Manage Tools View Help

11:29 AM 6/17/2017



Server Manager

Server Manager > Dashboard

Dashboard Local Server All Servers File and Storage Services

WELCOME TO SERVER MANAGER

System Properties

Computer Name Computer Description: [ ] Change... (button highlighted with red box)

Full computer name: TempPICoreVM Workgroup: MS

To rename this computer or change its domain or workgroup, click Change.

OK Cancel Apply

Windows uses the following information to identify your computer on the network.

Information about your computer

Windows Server 2016 Datacenter © Microsoft Corporation. All rights reserved.

Processor: Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40GHz 2.40 GHz

Memory (RAM): 3.50 GB

Operating System: 64-bit Operating System, x64-based processor

Display: No Pen or Touch Input is available for this Display

Domain, workgroup settings

Name: TempPICoreVM

Computer name: TempPICoreVM

Description: MS

Change settings

Windows is activated Read the Microsoft Software License Terms

Product ID: 00376-40000-00000-AA947

Change product key

See also Security and Maintenance

11:29 AM 6/17/2017

Server Manager

Server Manager > Dashboard

Dashboard Local Server All Servers File and Storage Services

WELCOME TO SERVER MANAGER

System Properties Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name: TempPICoreVM

Full computer name: TempPICoreVM

Member of:

Domain: demo.deploy.com

Workgroup: MS

OK Cancel Apply

System Security > System

Information about your computer

Windows Server 2016 Datacenter

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Windows Server 2016

Processor: Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40GHz 2.40 GHz

Memory (RAM): 3.50 GB

System Configuration: 64-bit Operating System, x64-based processor

Display: No Pen or Touch Input is available for this Display

Domain, workgroup settings

Name: TempPICoreVM

Display name: TempPICoreVM

Description: MS

Change settings

Windows is activated Read the Microsoft Software License Terms

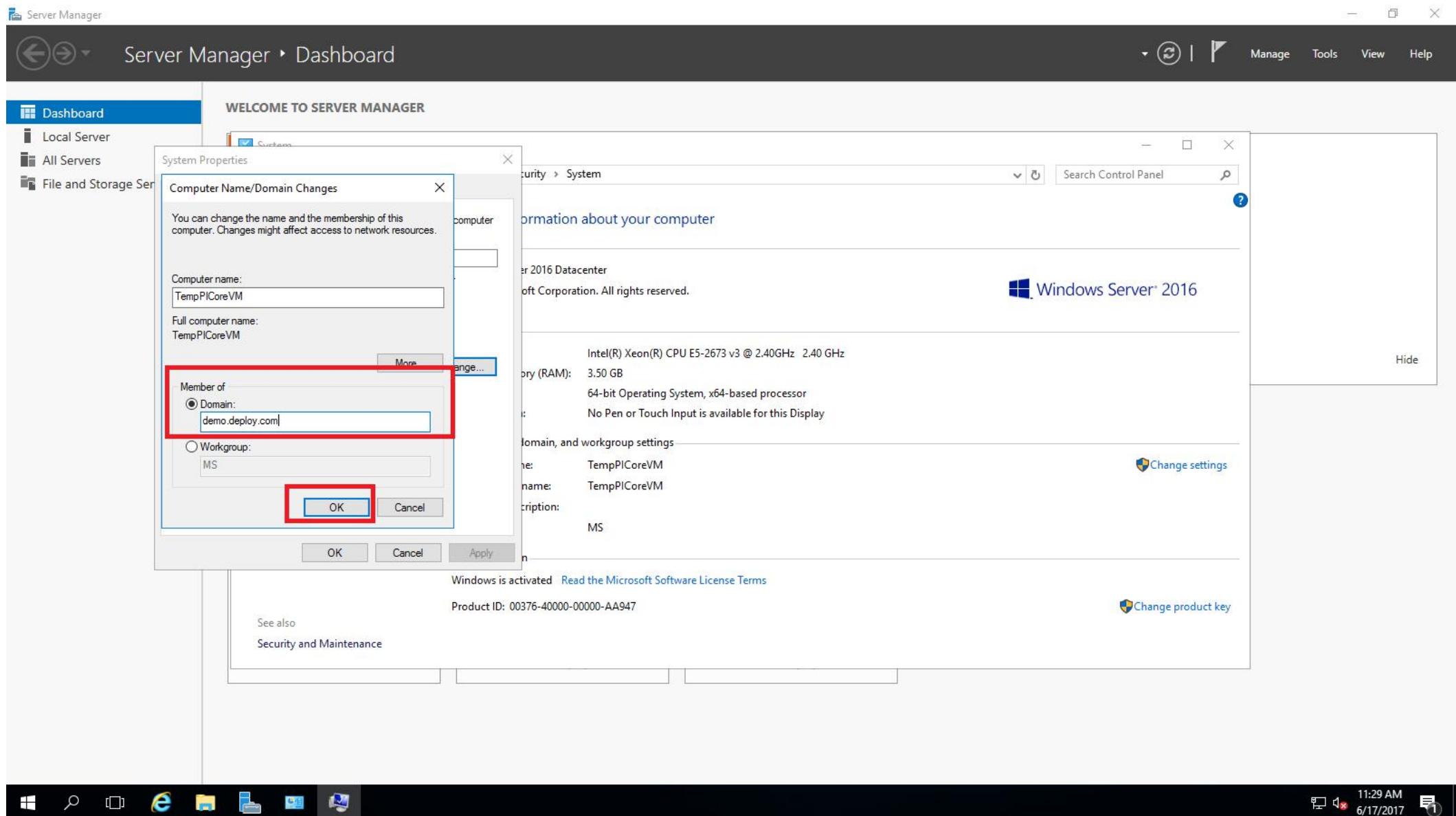
Product ID: 00376-40000-00000-AA947

Change product key

See also Security and Maintenance

OK Cancel Apply

11:29 AM 6/17/2017



Server Manager

Server Manager > Dashboard

Dashboard Local Server All Servers File and Storage Services System Properties Computer Name/Domain Changes

WELCOME TO SERVER MANAGER

Windows Security Computer Name/Domain Changes

Enter the name and password of an account with permission to join the domain.

adminuser  
\*\*\*\*\*

Domain: demo.deploy.com

OK Cancel

OK Cancel Apply

System

Information about your computer

Windows Server 2016 Datacenter  
Copyright © Microsoft Corporation. All rights reserved.

Processor: Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40GHz 2.40 GHz  
Memory (RAM): 3.50 GB  
Operating System: 64-bit Operating System, x64-based processor  
Input: No Pen or Touch Input is available for this Display

Domain, workgroup settings

Name: TempPICoreVM  
Name: TempPICoreVM  
Description: MS

Change settings

Windows is activated Read the Microsoft Software License Terms

Product ID: 00376-40000-00000-AA947

Change product key

You need some updates.  
Select this message to install.

See also  
Security and Maintenance

11:29 AM 6/17/2017

Server Manager

Server Manager > Dashboard

Dashboard Local Server All Servers File and Storage Services

WELCOME TO SERVER MANAGER

System Properties Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name: TempPICoreVM

Full computer name: TempPICoreVM

Member of:

Domain: demo.deploy.com

Workgroup: MS

OK Cancel Apply

Information about your computer

Windows Server 2016 Datacenter

Computer Name/Domain Changes

**i** You must restart your computer to apply these changes

Before restarting, save any open files and close all programs.

OK

TempPICoreVM TempPICoreVM.demo.deploy.com demo.deploy.com

Change settings

Windows is activated Read the Microsoft Software License Terms

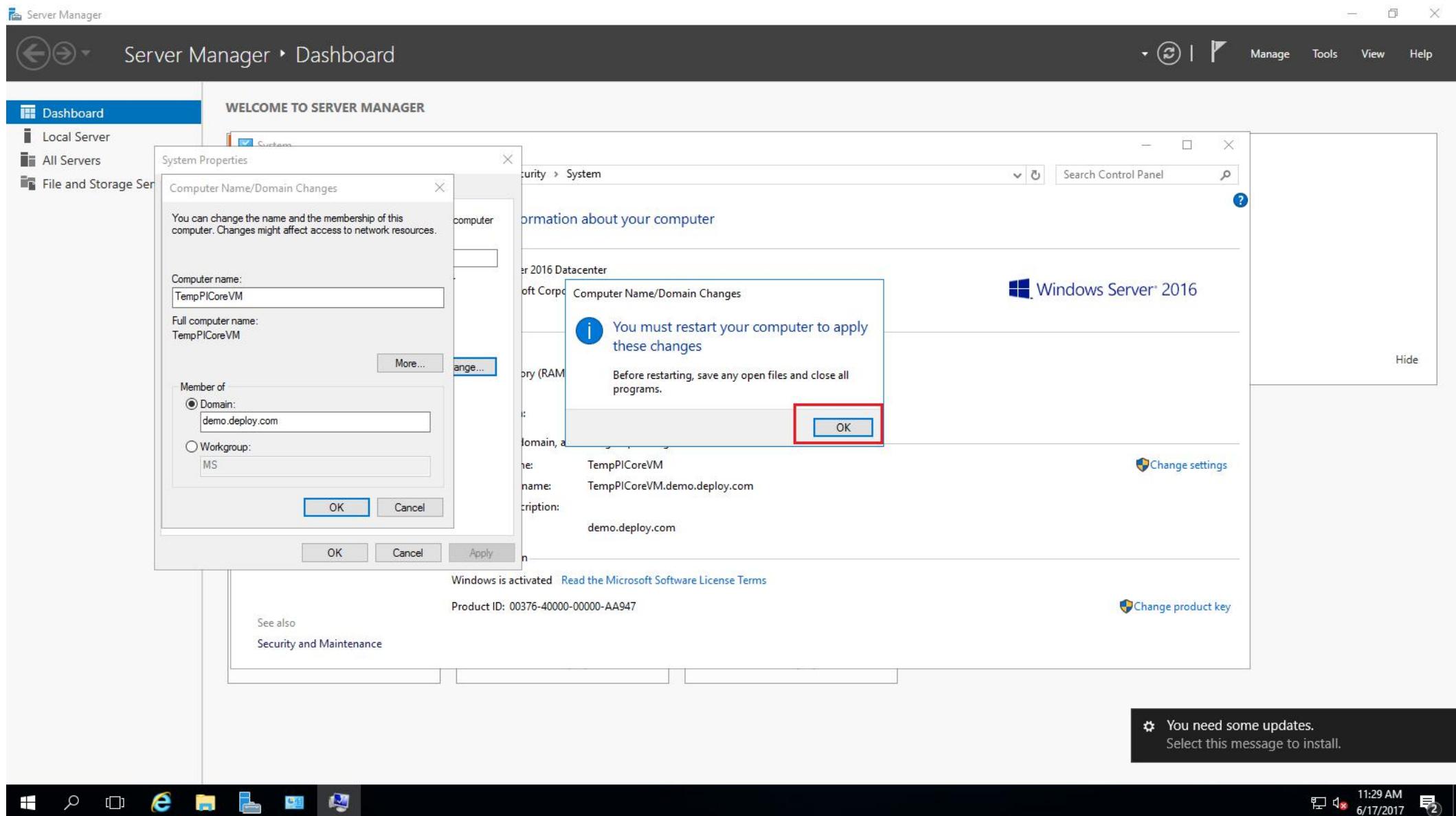
Product ID: 00376-40000-00000-AA947

Change product key

See also Security and Maintenance

You need some updates. Select this message to install.

11:29 AM 6/17/2017



Server Manager

Server Manager > Dashboard

Dashboard Local Server All Servers File and Storage Services

WELCOME TO SERVER MANAGER

System Properties

Computer Name Hardware Advanced Remote

Windows uses the following information to identify your computer on the network.

Computer description:

For example: "IIS Production Server" or "Accounting Server".

Full computer name: TempPICoreVM.demo.deploy.com

Domain: demo.deploy.com

To rename this computer or change its domain or workgroup, click Change... [Change...](#)

**Close** **Cancel** **Apply**

**Changes will take effect after you restart this computer.**

Information about your computer

Windows Server 2016 Datacenter  
Copyright © Microsoft Corporation. All rights reserved.

Processor: Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40GHz 2.40 GHz

Memory (RAM): 3.50 GB

Operating System: 64-bit Operating System, x64-based processor

Display: No Pen or Touch Input is available for this Display

Domain, workgroup settings

Name: TempPICoreVM [Change settings](#)

NetBIOS Name: TempPICoreVM.demo.deploy.com

Description: demo.deploy.com

Windows is activated [Read the Microsoft Software License Terms](#)

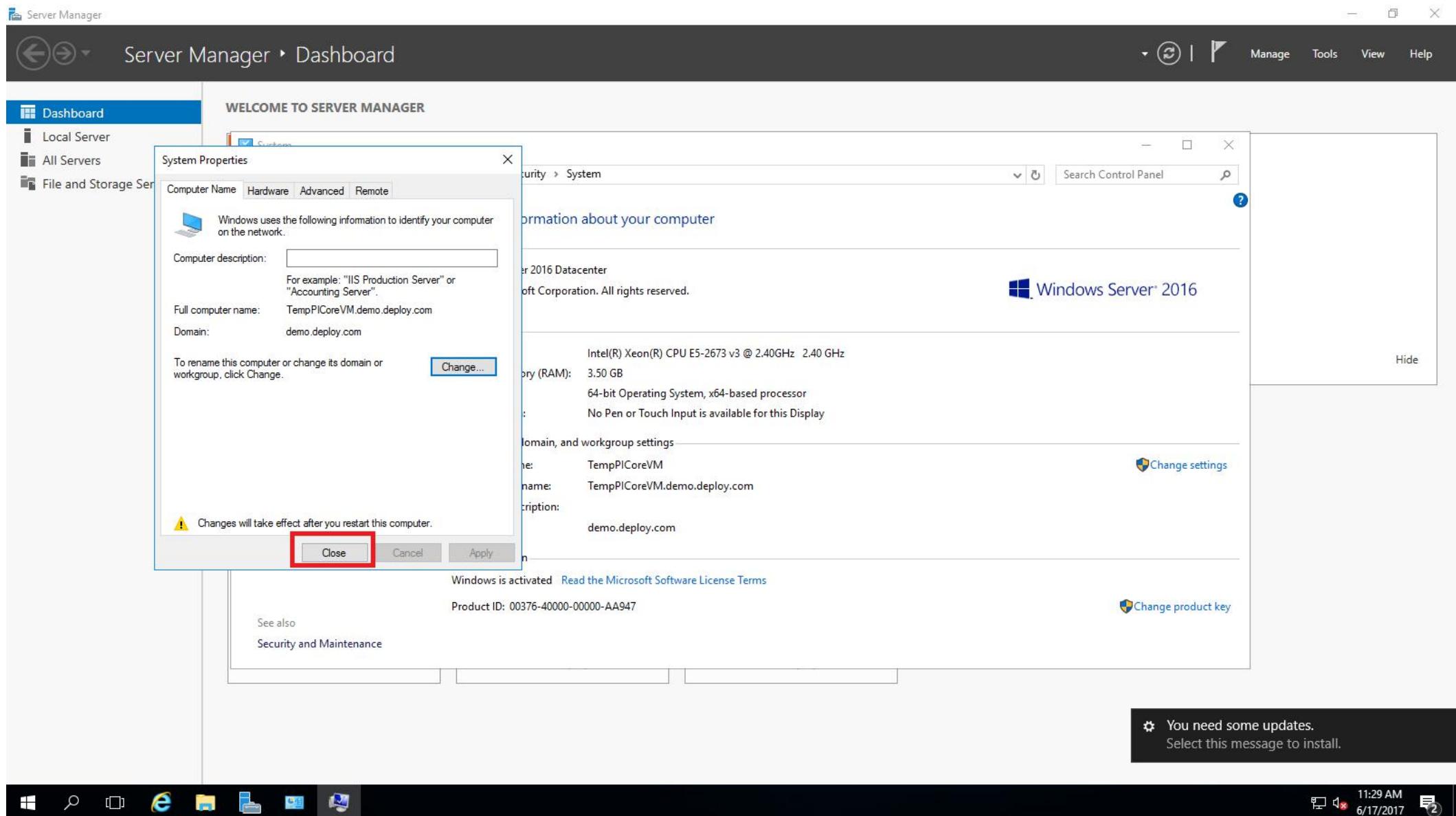
Product ID: 00376-40000-00000-AA947 [Change product key](#)

See also

Security and Maintenance

You need some updates.  
Select this message to install.

11:29 AM 6/17/2017



Server Manager

Server Manager › Dashboard

Dashboard Local Server All Servers File and Storage Services

WELCOME TO SERVER MANAGER

System Control Panel Home Device Manager Remote settings Advanced system settings

View basic information about your computer

Windows edition Windows Server 2016 Datacenter © 2016 Microsoft Corp.

Microsoft Windows You must restart your computer to apply these changes Before restarting, save any open files and close all programs.

Processor: Installed memory (RAM) System type: Pen and Touch:

Computer name, domain, and workgroup setting Computer name: TempPICoreVM Full computer name: TempPICoreVM.demo.deploy.com Computer description: Workgroup: demo.deploy.com

Change settings

Windows activation Windows is activated Read the Microsoft Software License Terms Product ID: 00376-40000-00000-AA947

Change product key

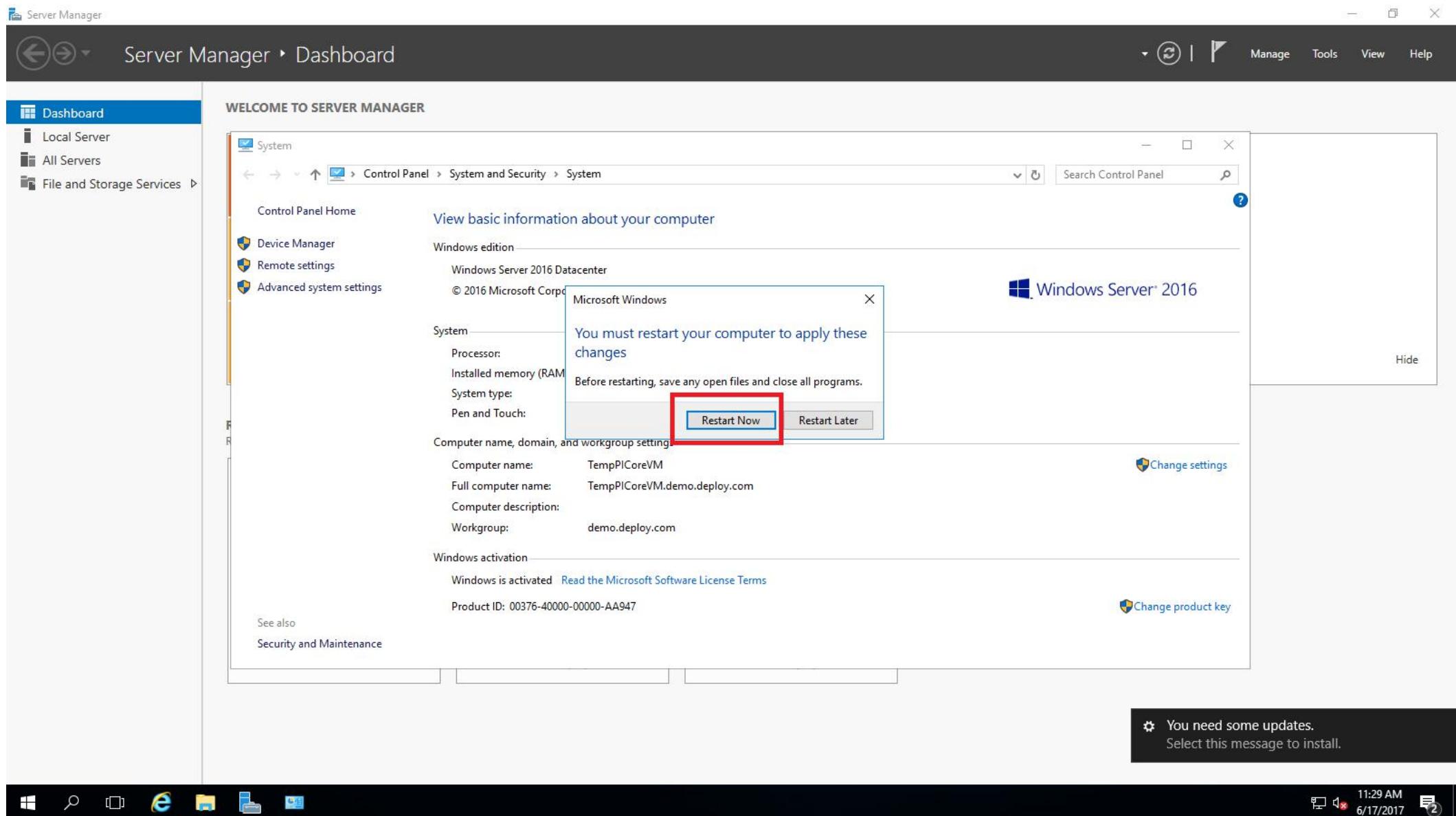
See also Security and Maintenance

Restart Now (highlighted with red box) Restart Later

Windows Server 2016 Hide

You need some updates. Select this message to install.

11:29 AM 6/17/2017



Access keys - Microsoft | Settings - Microsoft Azure | Downloads

ShettyShetty

Chrome | chrome://downloads

Downloads

Search downloads

Today

-  DataServiceSetup.msi  
https://emdeployment.blob.core.windows.net/releasemtr/DataServiceSetup.msi  
[Show in folder](#)
-  TempPICoreVM.rdp  
blob:https://portal.azure.com/a0b9fa3a-eec0-4415-80d7-ed2d99d18462  
[Show in folder](#)
-  TempSQLServerVM.rdp  
blob:https://portal.azure.com/e50d8939-1951-415c-926b-fbe8c391773a  
[Show in folder](#)
-  TempWinServerVM.rdp  
blob:https://portal.azure.com/874e7abb-6b08-499c-8159-dd00c79e8277  
[Show in folder](#)

Yesterday

-  CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...  
[Show in folder](#)

Type here to search

8:01 PM 6/17/2017

Access keys - Microsoft | Settings - Microsoft Azure | Downloads

Chrome | chrome://downloads

Downloads

Search downloads

Today

DataServiceSetup.msi  
https://emdeployment.blob.core.windows.net/releasemtr/DataServiceSetup.msi

Windows Security

Enter your credentials

These credentials will be used to connect to 52.161.12.93.

adminuser  
.....

Remember me

More choices

OK Cancel

blob:https://portal.azure.com/874e/abb-6b08-499c-8159-dd00c79e8277

Show in folder

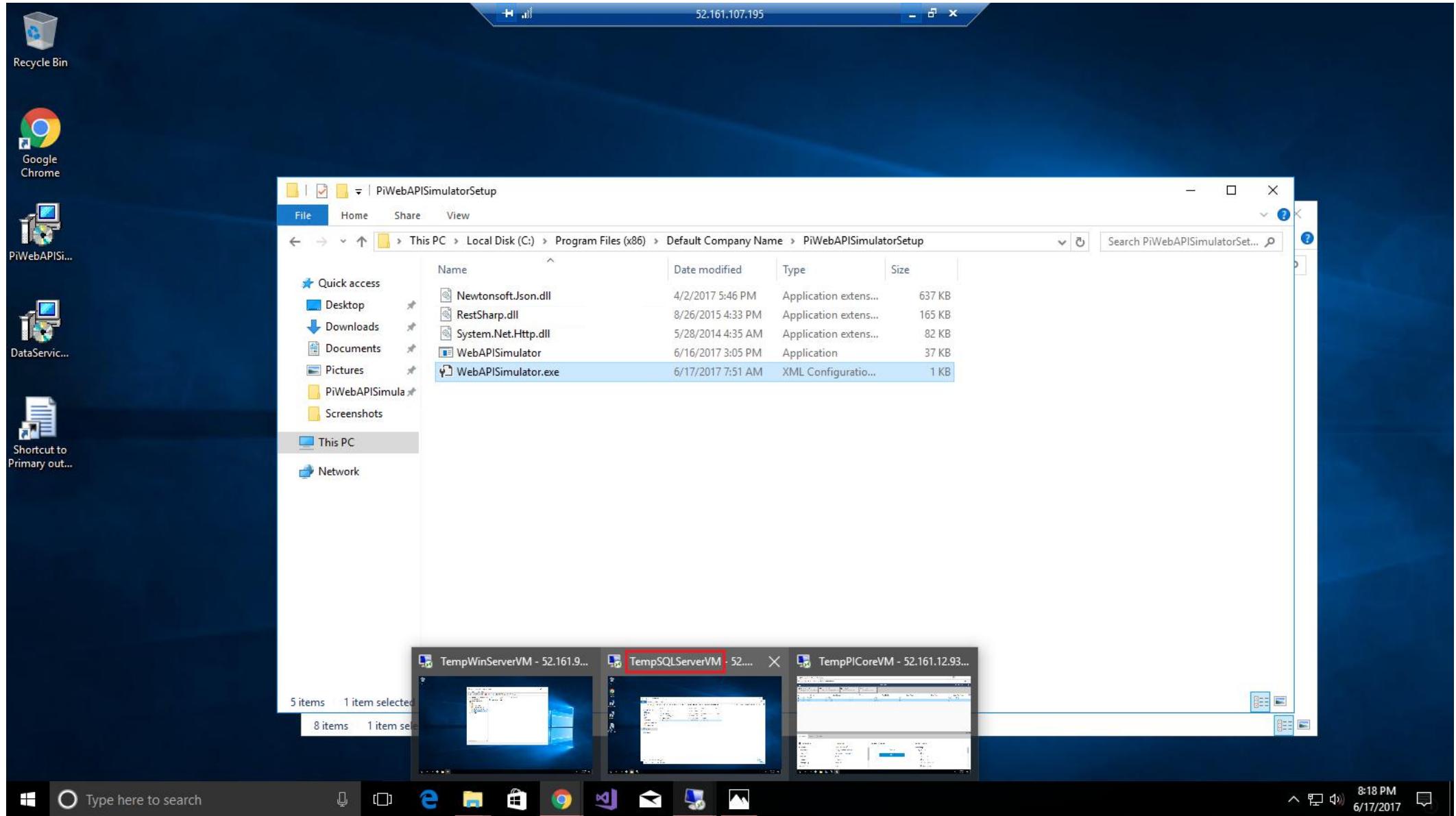
Yesterday

CSUWebApp (1).zip  
https://emreleasemtr.blob.core.windows.net/releasemtr/CSUWebApp.zip?sv=2016...

Show in folder

Type here to search

8:01 PM 6/17/2017



Server Manager

Server Manager › Dashboard

Dashboard Local Server All Servers File and Storage Services >

WELCOME TO SERVER MANAGER

QUICK START

WHAT'S NEW

1 Configure this local server

- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group
- 5 Connect this server to cloud services

Programs and Features Power Options Event Viewer System Hide

FILES AND SERVER GROUPS

File and Storage Services: 1 | Server groups: 1 | Servers total: 1

File and Storage Services	Local Server	All Servers
Manageability	1	1
Events		
Performance		
BPA results		

6/17/2017 2:27 PM

6/17/2017 2:27 PM

Run

Search

Shut down or sign out >

Desktop

2:32 PM 6/17/2017 2

Server Manager

Server Manager › Dashboard

Dashboard Local Server All Servers File and Storage Services >

WELCOME TO SERVER MANAGER

QUICK START

1 Configure this local server

2 Add roles and features

3 Add other servers to manage

4 Create a server group

5 Connect this server to cloud services

WHAT'S NEW

LEARN MORE

Hide

ROLES AND SERVER GROUPS

Roles: 1 | Server groups: 1 | Servers total: 1

File and Storage Services	Local Server	All Servers
1	1	1
Manageability	Manageability	Manageability
Events	Events	Events
Performance	Services	Services
BPA results	Performance	Performance
	6/17/2017 2:27 PM	6/17/2017 2:27 PM

Run

Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

Open: services.msc

This task will be created with administrative privileges.

OK Cancel Browse...

2:32 PM 6/17/2017

Services

File Action View Help

Services (Local)

PI Integrator for Business Analytics

[Start the service](#)

Description:

PI Integrator for Business Analytics

Start Stop Pause Resume Restart All Tasks Refresh Properties Help

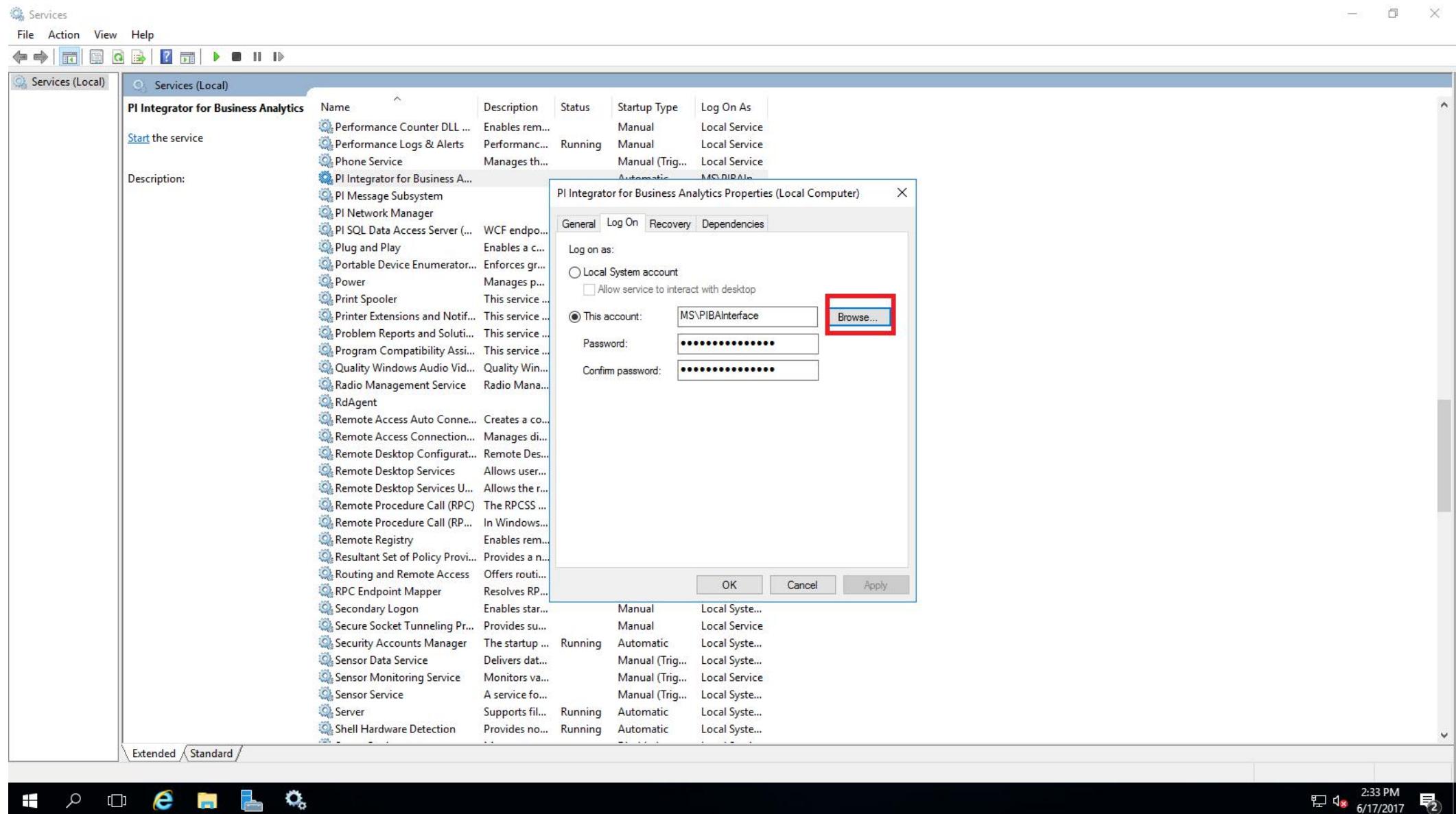
Name	Description	Status	Startup Type	Log On As
Performance Counter DLL ...	Enables rem...	Manual	Local Service	
Performance Logs & Alerts	Performanc...	Running	Manual	Local Service
Phone Service	Manages th...		Manual (Trig...	Local Service
PI Integrator for Business A...			Automatic	MS\PIBAIn...
PI Message Subsystem	Start		Automatic	Local Syste...
PI Network Manager	Stop		Automatic	Local Syste...
PI SQL Data Access Server (..	Pause		Automatic	NT SERVIC...
Plug and Play	Resume		Manual	Local Syste...
Portable Device Enumerator,	Restart		Manual (Trig...	Local Syste...
Power			Automatic	Local Syste...
Print Spooler			Automatic	Local Syste...
Printer Extensions and Notif.			Manual	Local Syste...
Problem Reports and Soluti..			Manual	Local Syste...
Program Compatibility Assi...			Automatic	Local Syste...
Quality Windows Audio Vid...			Manual	Local Service
Radio Management Service			Manual	Local Service
RdAgent	Running		Automatic	Local Syste...
Remote Access Auto Conne...	Creates a co...		Manual	Local Syste...
Remote Access Connection...	Manages di...		Manual	Local Syste...
Remote Desktop Configurati...	Remote Des...	Running	Manual	Local Syste...
Remote Desktop Services	Allows user...	Running	Manual	Network S...
Remote Desktop Services U...	Allows the r...	Running	Manual	Local Syste...
Remote Procedure Call (RPC)	The RPCSS ...	Running	Automatic	Network S...
Remote Procedure Call (RP...	In Windows...		Manual	Network S...
Remote Registry	Enables rem...		Automatic (T...	Local Service
Resultant Set of Policy Provi...	Provides a n...		Manual	Local Syste...
Routing and Remote Access	Offers routi...		Disabled	Local Syste...
RPC Endpoint Mapper	Resolves RP...	Running	Automatic	Network S...
Secondary Logon	Enables star...		Manual	Local Syste...
Secure Socket Tunneling Pr...	Provides su...		Manual	Local Service
Security Accounts Manager	The startup ...	Running	Automatic	Local Syste...
Sensor Data Service	Delivers dat...		Manual (Trig...	Local Syste...
Sensor Monitoring Service	Monitors va...		Manual (Trig...	Local Service
Sensor Service	A service fo...		Manual (Trig...	Local Syste...
Server	Supports fil...	Running	Automatic	Local Syste...
Shell Hardware Detection	Provides no...	Running	Automatic	Local Syste...

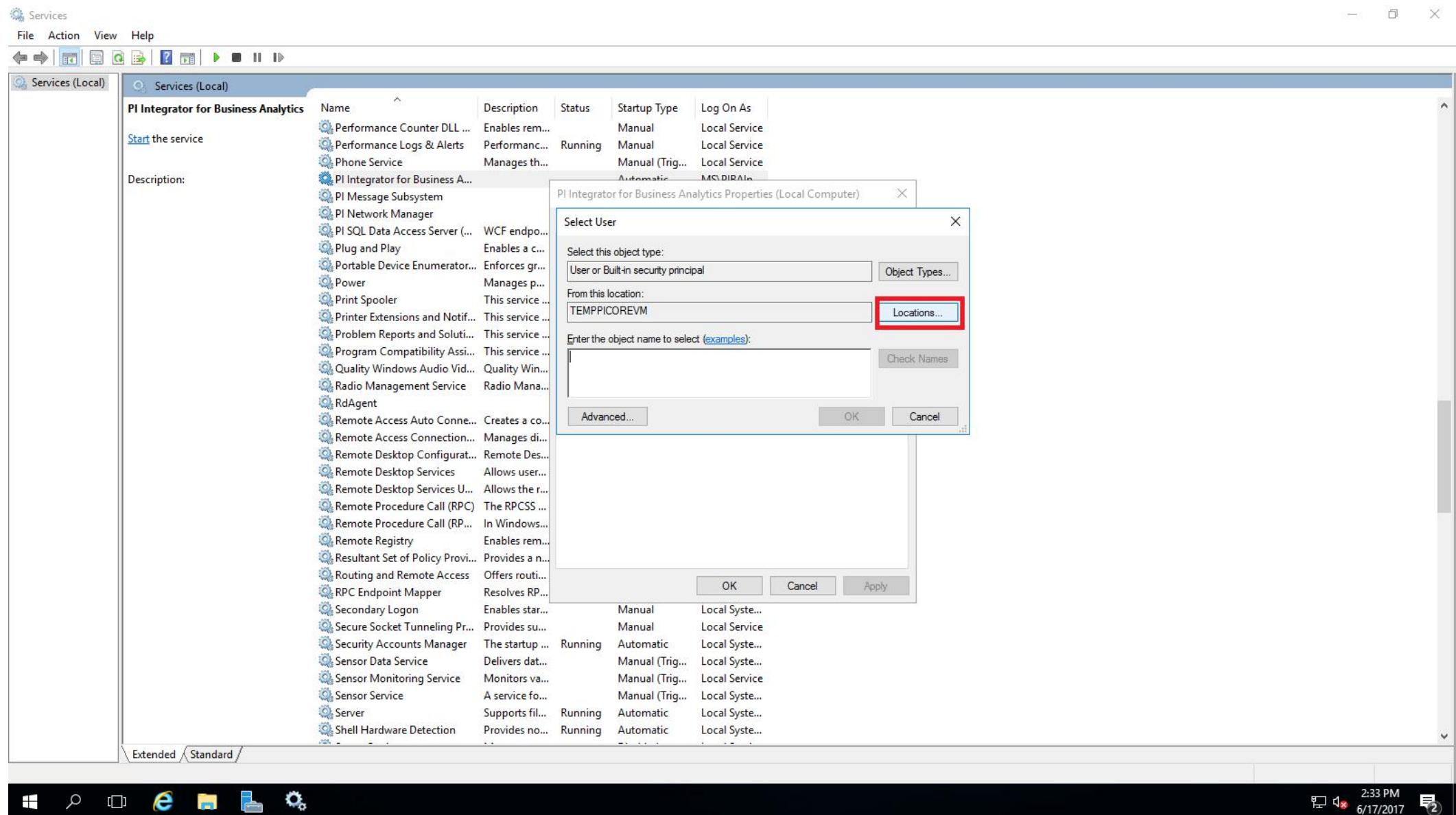
Extended Standard

Opens the properties dialog box for the current selection.

Windows Start Task View Search Internet File Settings

2:33 PM 6/17/2017





Services

File Action View Help

Services (Local)

**PI Integrator for Business Analytics**

Name Description Status Startup Type Log On As

Performance Counter DLL ...	Enables rem...	Manual	Local Service	
Performance Logs & Alerts	Performanc...	Running	Manual	Local Service
Phone Service	Manages th...	Manual (Trig...	Local Service	
PI Integrator for Business A...		Automatic	MS\DIRAIn	
PI Message Subsystem				
PI Network Manager				
PI SQL Data Access Server (...	WCF endpo...			
Plug and Play	Enables a c...			
Portable Device Enumerator...	Enforces gr...			
Power	Manages p...			
Print Spooler	This service ...			
Printer Extensions and Notif...	This service ...			
Problem Reports and Soluti...	This service ...			
Program Compatibility Assis...	This service ...			
Quality Windows Audio Vid...	Quality Win...			
Radio Management Service	Radio Mana...			
RdAgent				
Remote Access Auto Conne...	Creates a co...			
Remote Access Connection...	Manages di...			
Remote Desktop Configurat...	Remote Des...			
Remote Desktop Services	Allows user...			
Remote Desktop Services U...	Allows the r...			
Remote Procedure Call (RPC)	The RPCSS ...			
Remote Procedure Call (RP...	In Windows...			
Remote Registry	Enables rem...			
Resultant Set of Policy Provi...	Provides a n...			
Routing and Remote Access	Offers routi...			
RPC Endpoint Mapper	Resolves RP...			
Secondary Logon	Enables star...	Manual	Local Syste...	
Secure Socket Tunneling Pr...	Provides su...	Manual	Local Service	
Security Accounts Manager	The startup ...	Running	Automatic	Local Syste...
Sensor Data Service	Delivers dat...	Manual (Trig...	Local Syste...	
Sensor Monitoring Service	Monitors va...	Manual (Trig...	Local Service	
Sensor Service	A service fo...	Manual (Trig...	Local Syste...	
Server	Supports fil...	Running	Automatic	Local Syste...
Shell Hardware Detection	Provides no...	Running	Automatic	Local Syste...

Description: Start the service

PI Integrator for Business Analytics Properties (Local Computer)

Select User

Windows Security

### Enter network credentials

Enter your credentials for an account with permissions for demo.deploy.com.

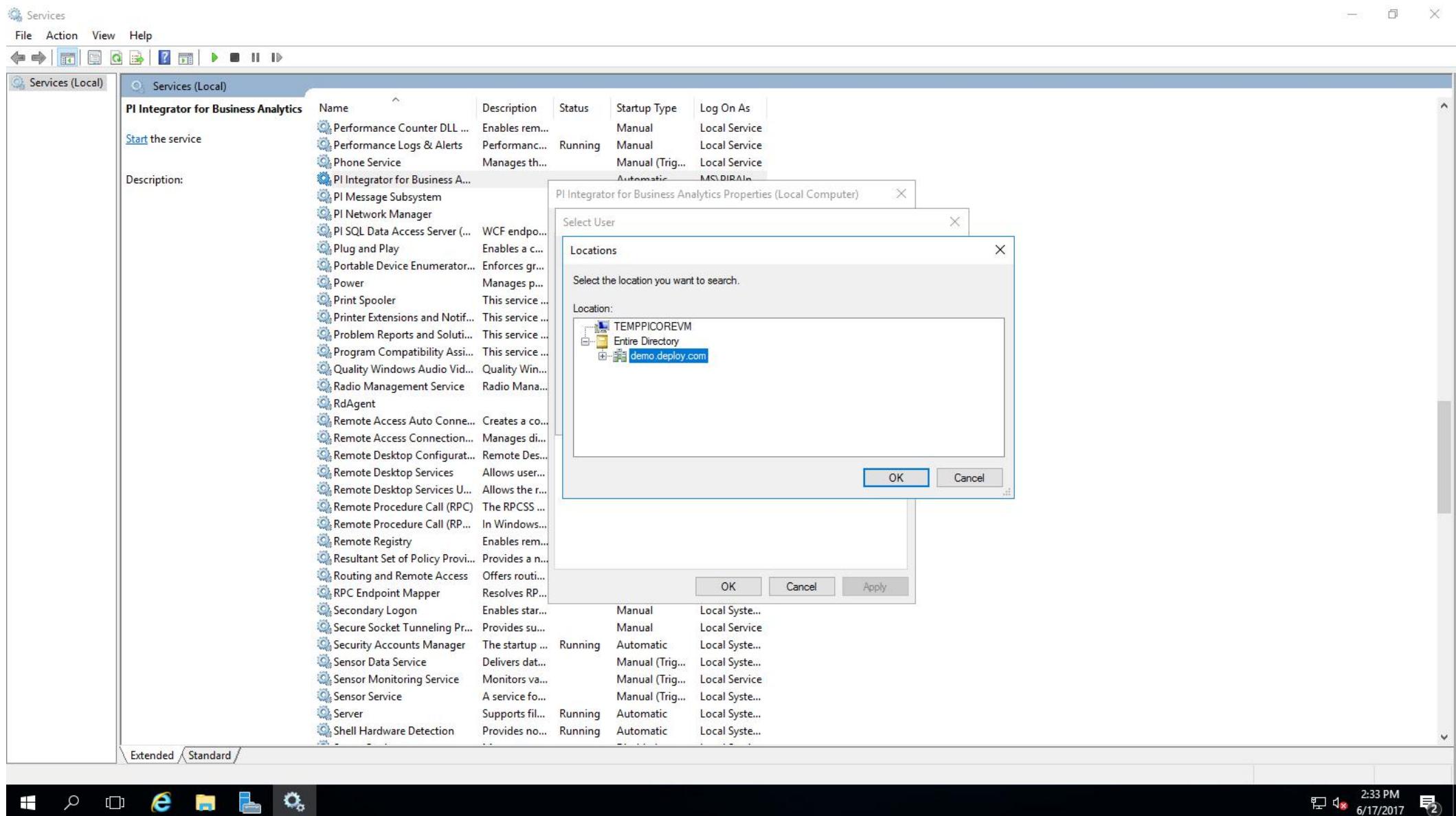
For example user, user@example.microsoft.com, or domain \user name

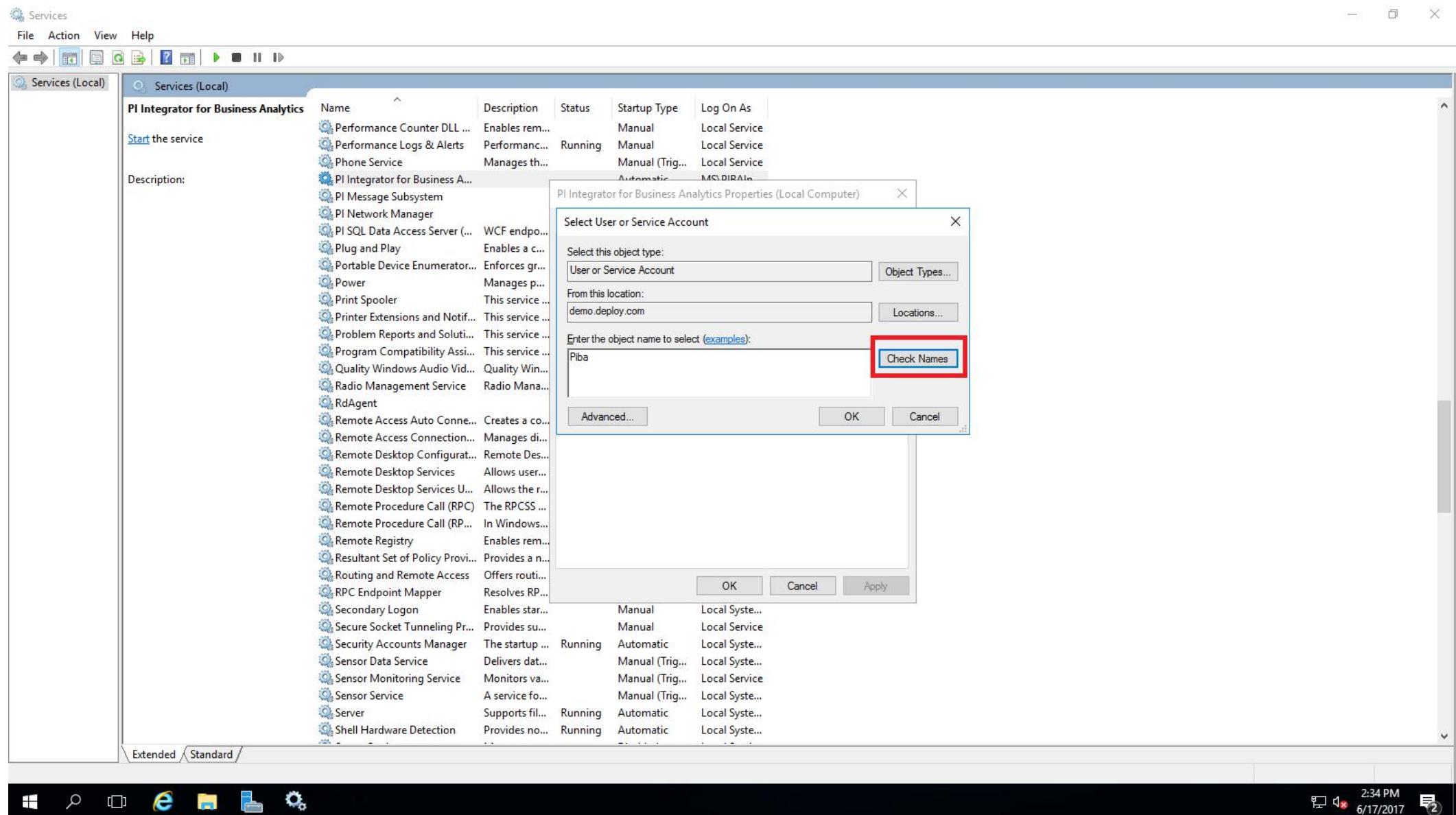
User: adminuser

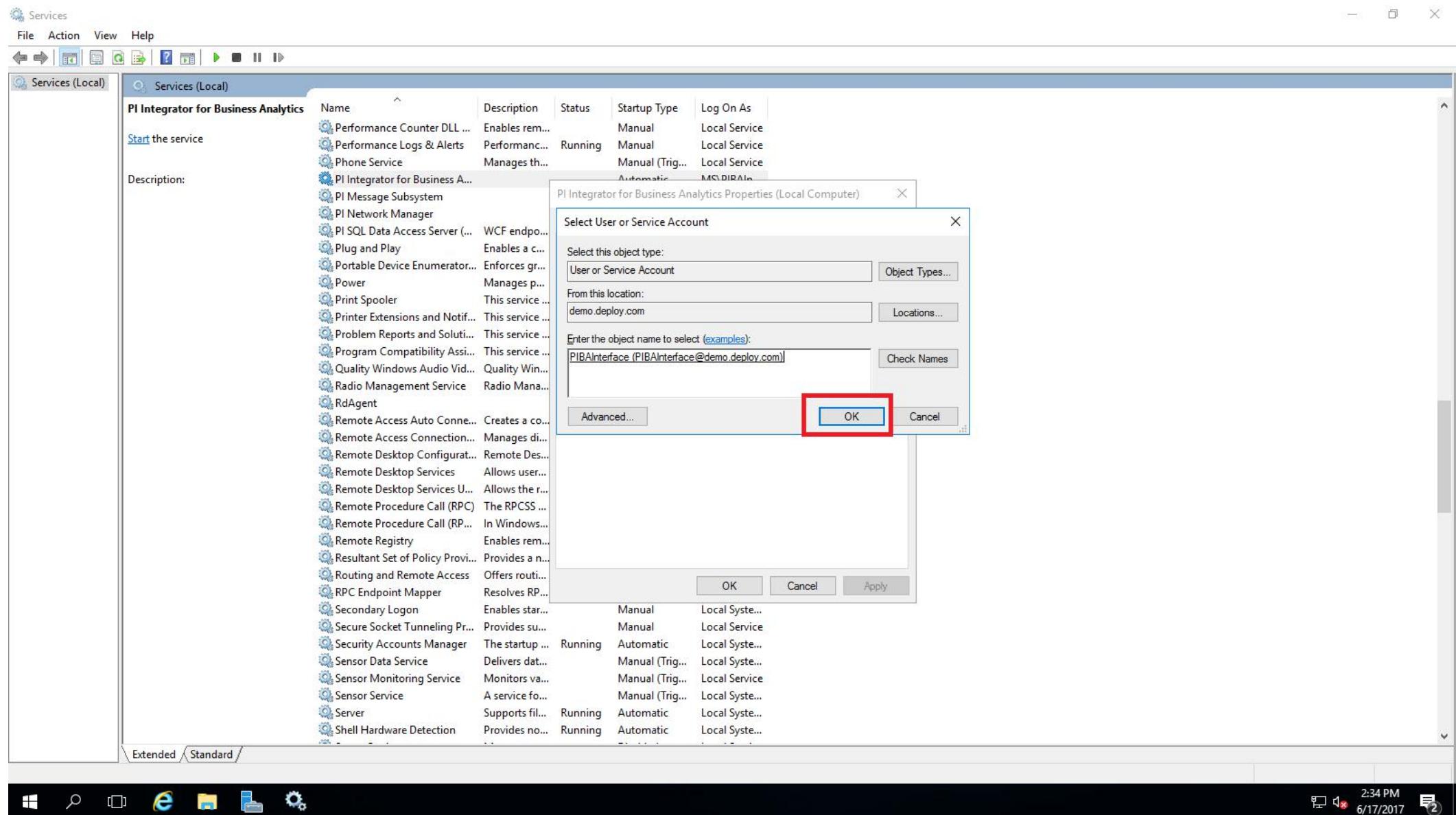
Password: [REDACTED]

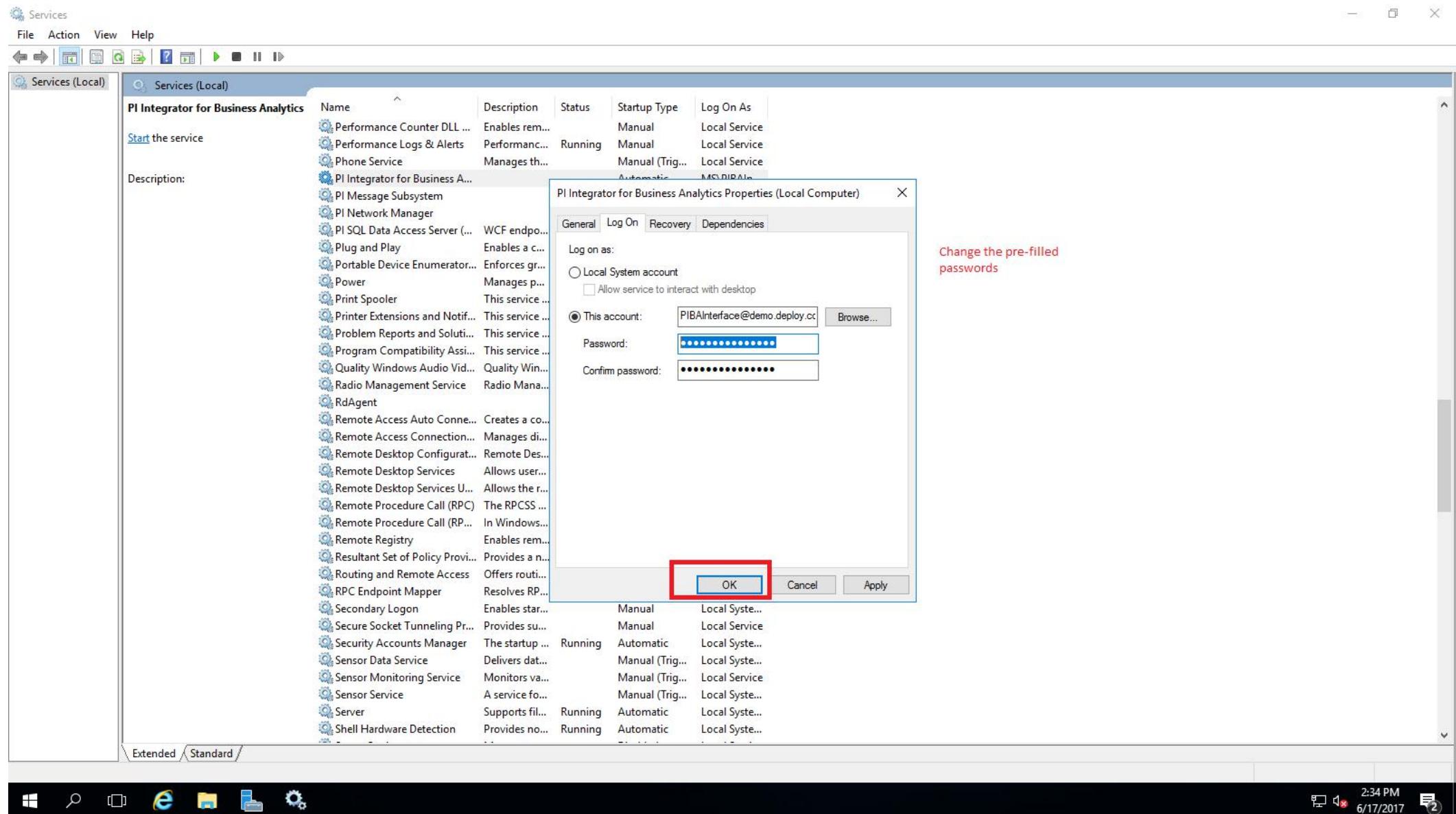
Domain: DEMO

OK Cancel









Services

File Action View Help

Services (Local)

PI Integrator for Business Analytics

[Start the service](#)

Description:

Start the service

PI Integrator for Business Analytics

Start

- Start
- Stop
- Pause
- Resume
- Restart
- All Tasks >
- Refresh
- Properties
- Help

Name	Description	Status	Startup Type	Log On As
Performance Counter DLL ...	Enables rem...	Manual	Local Service	
Performance Logs & Alerts	Performanc...	Running	Manual	Local Service
Phone Service	Manages th...		Manual (Trig...	Local Service
PI Integrator for Business A...			Automatic	PIBAIntera...
PI Message Subsystem			Automatic	Local Syste...
PI Network Manager			Automatic	Local Syste...
PI SQL Data Access Server (...			Automatic	NT SERVIC...
Plug and Play			Manual	Local Syste...
Portable Device Enumerator			Manual (Trig...	Local Syste...
Power			Automatic	Local Syste...
Print Spooler			Automatic	Local Syste...
Printer Extensions and Notif...			Manual	Local Syste...
Problem Reports and Soluti...			Manual	Local Syste...
Program Compatibility Assis...			Automatic	Local Syste...
Quality Windows Audio Vid...			Manual	Local Service
Radio Management Service			Manual	Local Service
RdAgent	Running		Automatic	Local Syste...
Remote Access Auto Conne...	Creates a co...		Manual	Local Syste...
Remote Access Connection...	Manages di...		Manual	Local Syste...
Remote Desktop Configurati...	Remote Des...	Running	Manual	Local Syste...
Remote Desktop Services	Allows user...	Running	Manual	Network S...
Remote Desktop Services U...	Allows the r...	Running	Manual	Local Syste...
Remote Procedure Call (RPC)	The RPCSS ...	Running	Automatic	Network S...
Remote Procedure Call (RPC)	In Windows...		Manual	Network S...
Remote Registry	Enables rem...		Automatic (T...	Local Service
Resultant Set of Policy Provi...	Provides a n...		Manual	Local Syste...
Routing and Remote Access	Offers routi...		Disabled	Local Syste...
RPC Endpoint Mapper	Resolves RP...	Running	Automatic	Network S...
Secondary Logon	Enables star...		Manual	Local Syste...
Secure Socket Tunneling Pr...	Provides su...		Manual	Local Service
Security Accounts Manager	The startup ...	Running	Automatic	Local Syste...
Sensor Data Service	Delivers dat...		Manual (Trig...	Local Syste...
Sensor Monitoring Service	Monitors va...		Manual (Trig...	Local Service
Sensor Service	A service fo...		Manual (Trig...	Local Syste...
Server	Supports fil...	Running	Automatic	Local Syste...
Shell Hardware Detection	Provides no...	Running	Automatic	Local Syste...

Extended Standard

Start service PI Integrator for Business Analytics on Local Computer

Windows Start Taskbar Icons: File Explorer, Edge, Task View, Settings, Taskbar Buttons: 2 notifications, System Tray: 2:35 PM, 6/17/2017

Services

File Action View Help

Services (Local) Services (Local)

Service Control

Windows is attempting to start the following service on Local Computer...  
PI Integrator for Business Analytics

Close

	Description	Status	Startup Type	Log On As
Performance Counter DLL ...	Enables rem...	Manual	Local Service	
Performance Logs & Alerts	Performanc...	Running	Manual	Local Service
Power Service	Manages th...	Manual (Trig...	Local Service	
Power Service for Business Analytics		Automatic	PIBAInterface...	
Portable Device Subsystem		Running	Automatic	Local Syste...
Power Manager		Running	Automatic	Local Syste...
Point-to-Point Access Server (...)	WCF endpoint	Running	Automatic	NT SERVIC...
Play	Enables a c...	Running	Manual	Local Syste...
Portable Device Enumerator...	Enforces gr...	Manual (Trig...	Local Syste...	
Power	Manages p...	Running	Automatic	Local Syste...
Print Spooler	This service ...	Running	Automatic	Local Syste...
Printer Extensions and Notif...	This service ...	Manual	Local Syste...	
Problem Reports and Soluti...	This service ...	Manual	Local Syste...	
Program Compatibility Assis...	This service ...	Running	Automatic	Local Syste...
Quality Windows Audio Vid...	Quality Win...	Manual	Local Service	
Radio Management Service	Radio Mana...	Manual	Local Service	
RdAgent		Running	Automatic	Local Syste...
Remote Access Auto Connec...	Creates a co...	Manual	Local Syste...	
Remote Access Connection...	Manages di...	Manual	Local Syste...	
Remote Desktop Configuration	Remote Des...	Running	Manual	Local Syste...
Remote Desktop Services	Allows user...	Running	Manual	Network S...
Remote Desktop Services U...	Allows the r...	Running	Manual	Local Syste...
Remote Procedure Call (RPC)	The RPCSS ...	Running	Automatic	Network S...
Remote Procedure Call (RPC)	In Windows...	Manual	Network S...	
Remote Registry	Enables rem...	Automatic (T...	Local Service	
Resultant Set of Policy Provi...	Provides a n...	Manual	Local Syste...	
Routing and Remote Access	Offers routi...	Disabled	Local Syste...	
RPC Endpoint Mapper	Resolves RP...	Running	Automatic	Network S...
Secondary Logon	Enables star...	Manual	Local Syste...	
Secure Socket Tunneling Pr...	Provides su...	Manual	Local Service	
Security Accounts Manager	The startup ...	Running	Automatic	Local Syste...
Sensor Data Service	Delivers dat...	Manual (Trig...	Local Syste...	
Sensor Monitoring Service	Monitors va...	Manual (Trig...	Local Service	
Sensor Service	A service fo...	Manual (Trig...	Local Syste...	
Server	Supports fil...	Running	Automatic	Local Syste...
Shell Hardware Detection	Provides no...	Running	Automatic	Local Syste...

Extended Standard

Windows Search File Explorer Task View Start Taskbar 2:35 PM 6/17/2017

Services

File Action View Help

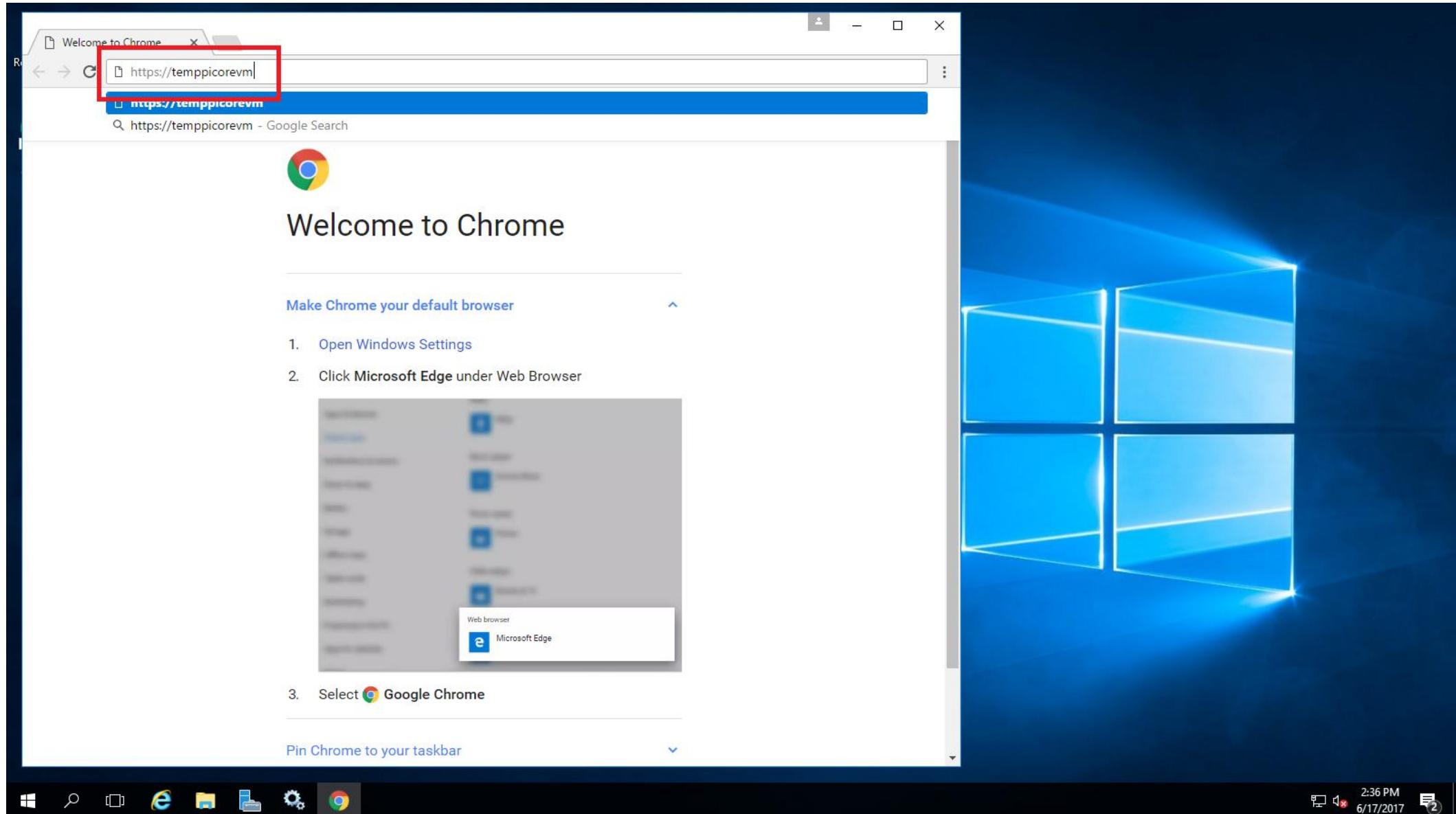
Services (Local)

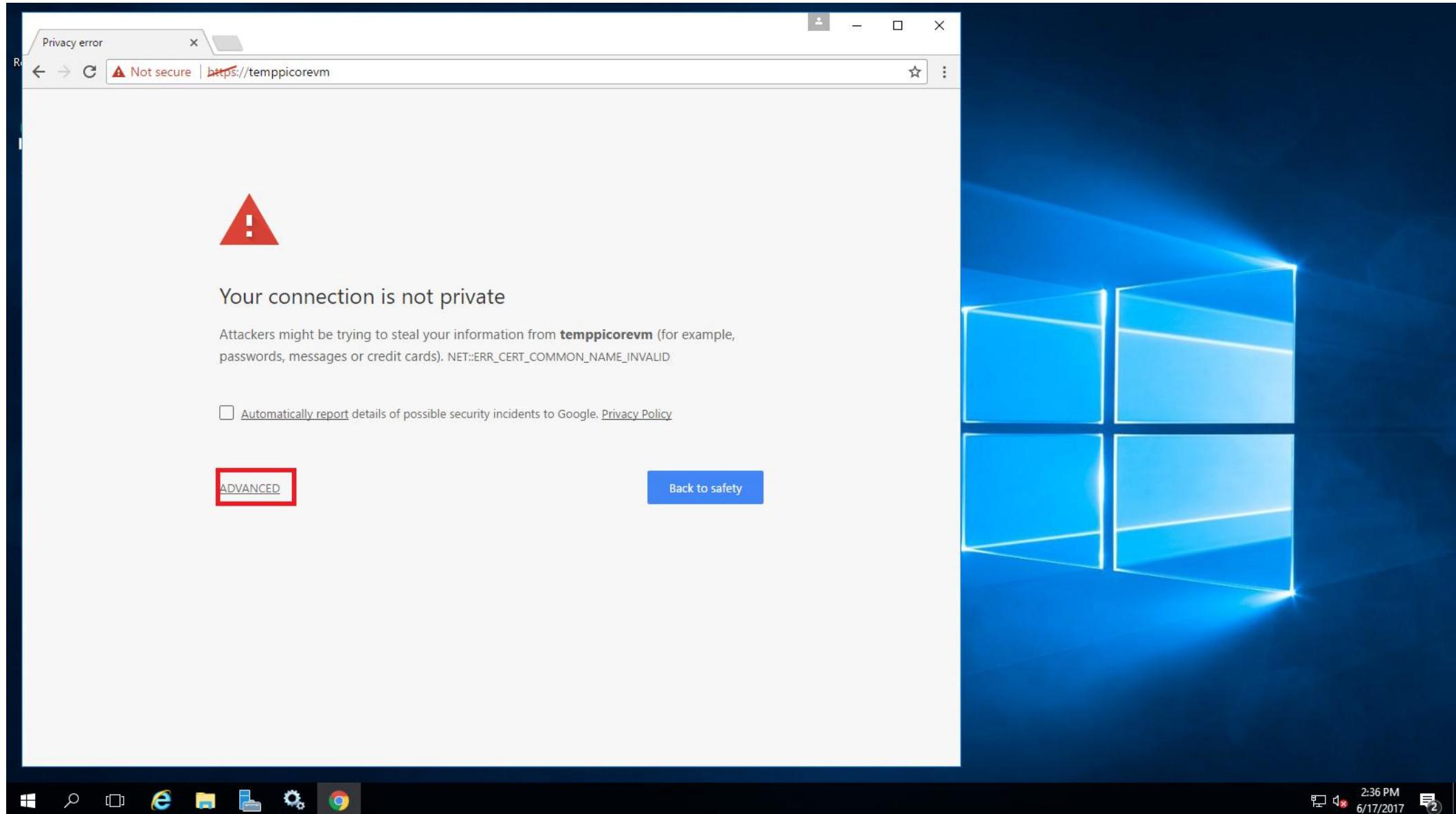
**PI Integrator for Business Analytics**

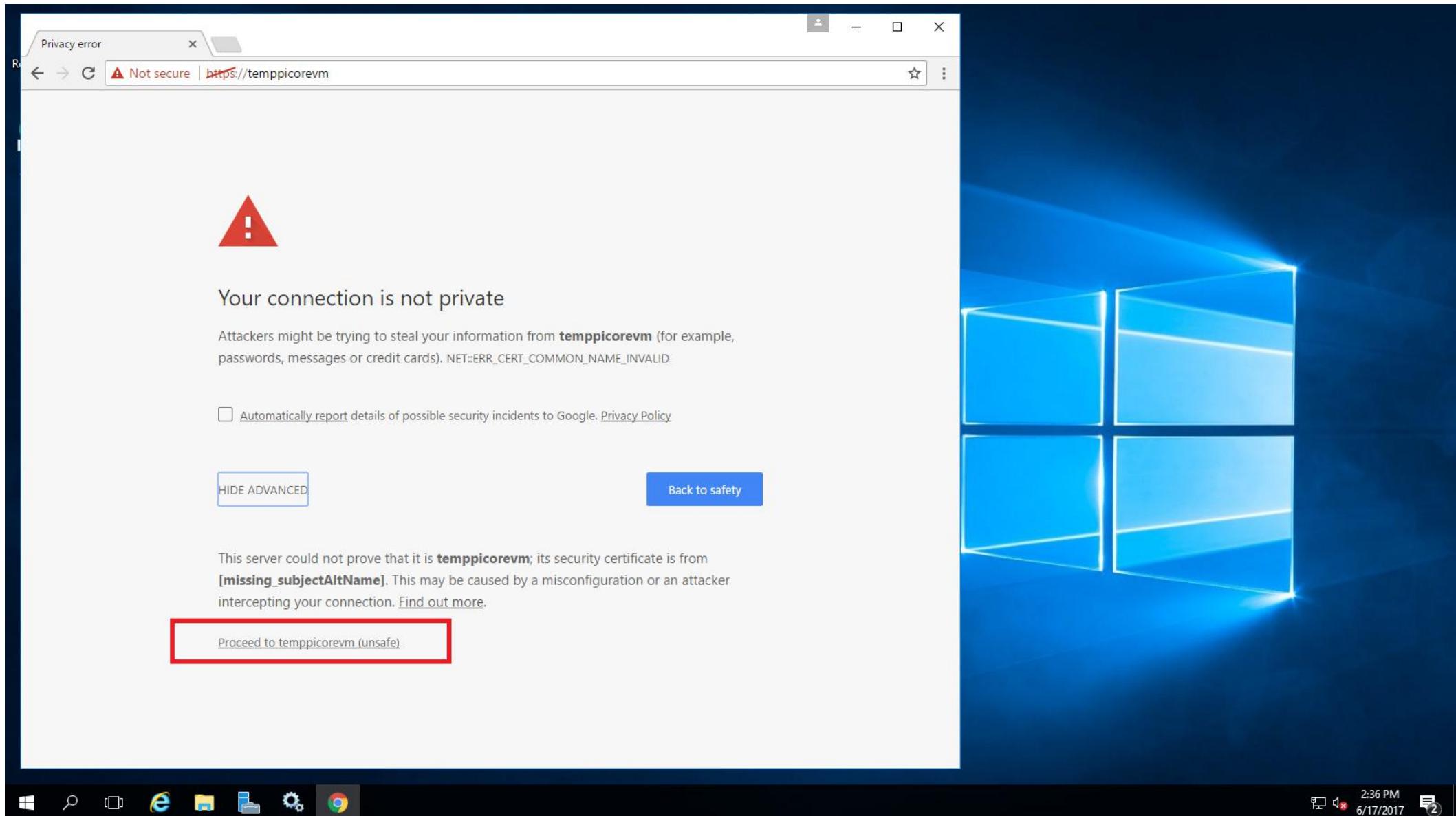
Name	Description	Status	Startup Type	Log On As
Performance Counter DLL ...	Enables rem...	Manual	Local Service	
Performance Logs & Alerts	Performanc...	Running	Manual	Local Service
Phone Service	Manages th...		Manual (Trig...	Local Service
<b>PI Integrator for Business A...</b>		<b>Running</b>	<b>Automatic</b>	<b>PIBAInterfa...</b>
PI Message Subsystem		Running	Automatic	Local Syste...
PI Network Manager		Running	Automatic	Local Syste...
PI SQL Data Access Server (...	WCF endpo...	Running	Automatic	NT SERVIC...
Plug and Play	Enables a c...	Running	Manual	Local Syste...
Portable Device Enumerator...	Enforces gr...		Manual (Trig...	Local Syste...
Power	Manages p...	Running	Automatic	Local Syste...
Print Spooler	This service ...	Running	Automatic	Local Syste...
Printer Extensions and Notif...	This service ...		Manual	Local Syste...
Problem Reports and Soluti...	This service ...		Manual	Local Syste...
Program Compatibility Assis...	This service ...	Running	Automatic	Local Syste...
Quality Windows Audio Vid...	Quality Win...		Manual	Local Service
Radio Management Service	Radio Mana...		Manual	Local Service
RdAgent		Running	Automatic	Local Syste...
Remote Access Auto Conne...	Creates a co...		Manual	Local Syste...
Remote Access Connection...	Manages di...		Manual	Local Syste...
Remote Desktop Configurat...	Remote Des...	Running	Manual	Local Syste...
Remote Desktop Services	Allows user...	Running	Manual	Network S...
Remote Desktop Services U...	Allows the r...	Running	Manual	Local Syste...
Remote Procedure Call (RPC)	The RPCSS ...	Running	Automatic	Network S...
Remote Procedure Call (RP...	In Windows...		Manual	Network S...
Remote Registry	Enables rem...		Automatic (T...	Local Service
Resultant Set of Policy Provi...	Provides a n...		Manual	Local Syste...
Routing and Remote Access	Offers routi...		Disabled	Local Syste...
RPC Endpoint Mapper	Resolves RP...	Running	Automatic	Network S...
Secondary Logon	Enables star...		Manual	Local Syste...
Secure Socket Tunneling Pr...	Provides su...		Manual	Local Service
Security Accounts Manager	The startup ...	Running	Automatic	Local Syste...
Sensor Data Service	Delivers dat...		Manual (Trig...	Local Syste...
Sensor Monitoring Service	Monitors va...		Manual (Trig...	Local Service
Sensor Service	A service fo...		Manual (Trig...	Local Syste...
Server	Supports fil...	Running	Automatic	Local Syste...
Shell Hardware Detection	Provides no...	Running	Automatic	Local Syste...

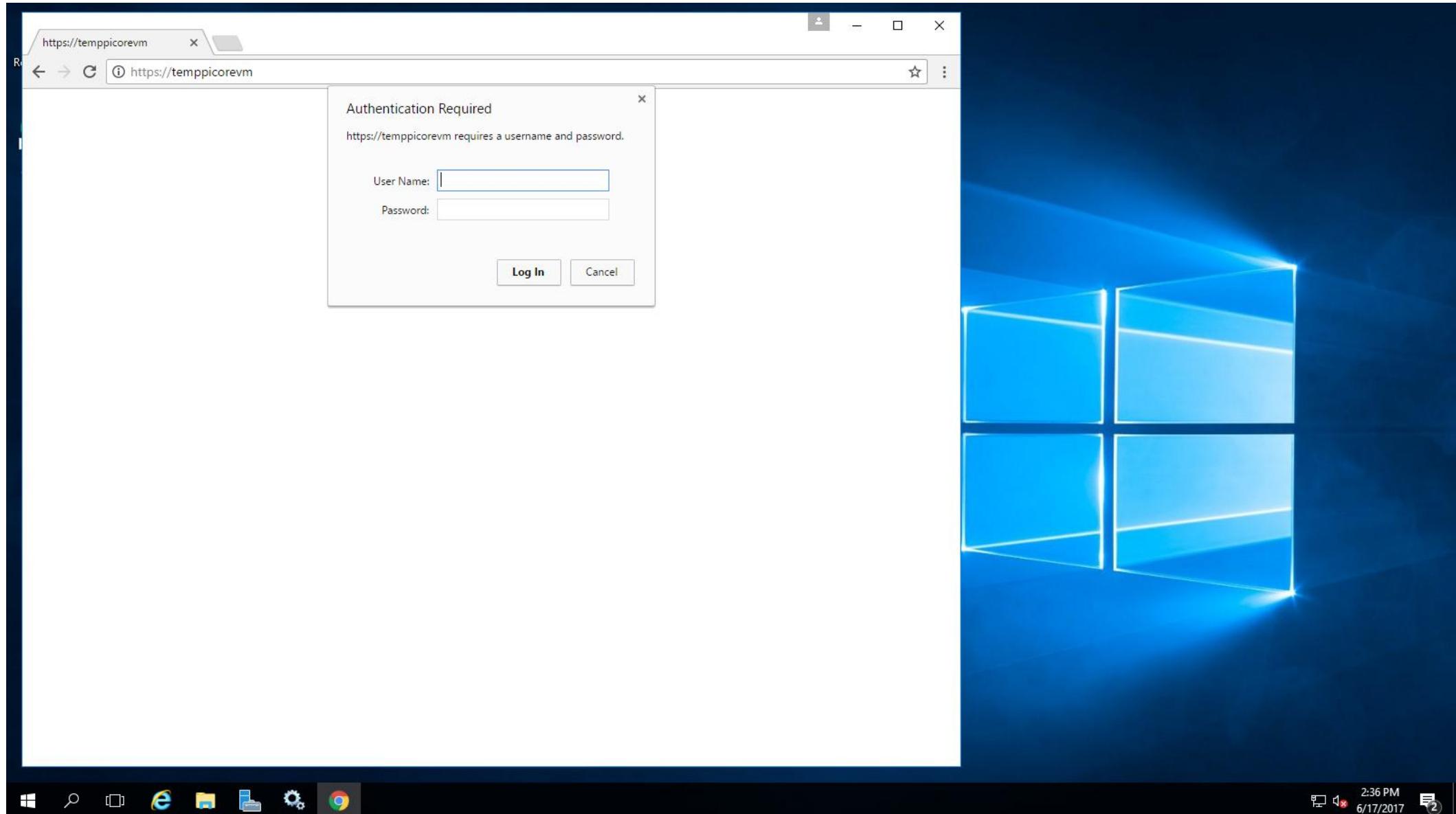
Extended Standard

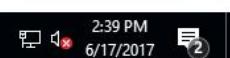
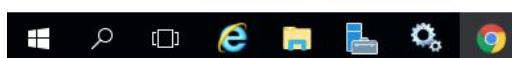
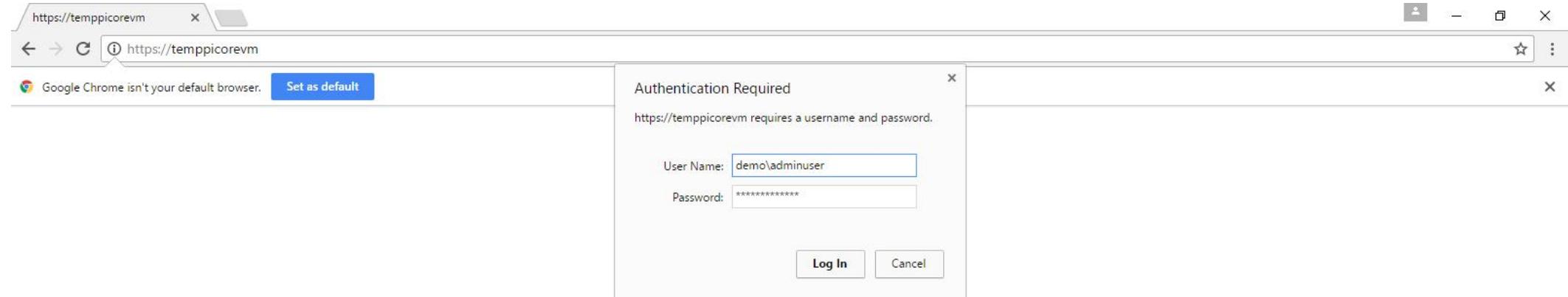
Windows Search File Explorer Task View Start Settings 2:35 PM 6/17/2017 2











PI Integrator for Business Not secure https://tempcorevm

Create Asset View Build a data view starting with your asset hierarchy

Create Event View Build a data view starting with your event frame hierarchy

Modify View Modify existing data view

Remove View Remove selected view

My Views DEMO\adminuser

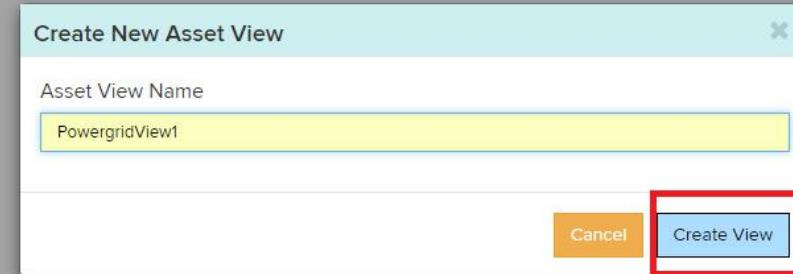
Name	Run Status	Type	Run Mode	Start Time	End Time	Last Run Time
------	------------	------	----------	------------	----------	---------------

Create New Asset View

Asset View Name

PowergridView1

Cancel Create View

2:39 PM  
6/17/2017

PI Integrator for Business x

Not secure | https://tempcorevm/Designer

PowergridView1 DEMO\adminuser

Select Data > Modify View > Publish Next

Source Assets

Server: TEMPSQLSERVERVM

Database:

Assets

Search Shape Asset Shape Matches



2:39 PM 6/17/2017

PI Integrator for Business x

Not secure | https://tempcorevm/Designer

PowergridView1 DEMO\adminuser

Select Data > Modify View > Publish Next

Source Assets

Server: TEMPSOLSERV/VM

Database: EnergyManagement

Assets: EnergyManagementDemo

Search Shape Asset Shape Matches



2:40 PM 6/17/2017

PI Integrator for Business Not secure | https://tempcorevm/Designer

Select Data > Modify View > Publish Next

Source Assets Search Shape  Asset Shape  Matches

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - Chemistry Building
    - P371602028
    - P371602030
  - Science Building

Attributes Filter

Deselect All

Amps L1	<input type="button"/>
Amps L2	<input type="button"/>
Amps L3	<input type="button"/>
Amps System Avg	<input type="button"/>
Breaker Details	<input type="button"/>
Breaker Label	<input type="button"/>
Building	<input type="button"/>

2:41 PM 6/17/2017

PI Integrator for Business Not secure | https://tempcorevm/Designer

Select Data > Modify View > Publish Next

Source Assets

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - Chemistry Building
    - P371602028
    - P371602030
  - Science Building

Drag and Drop below attributes to right

Attributes Filter I

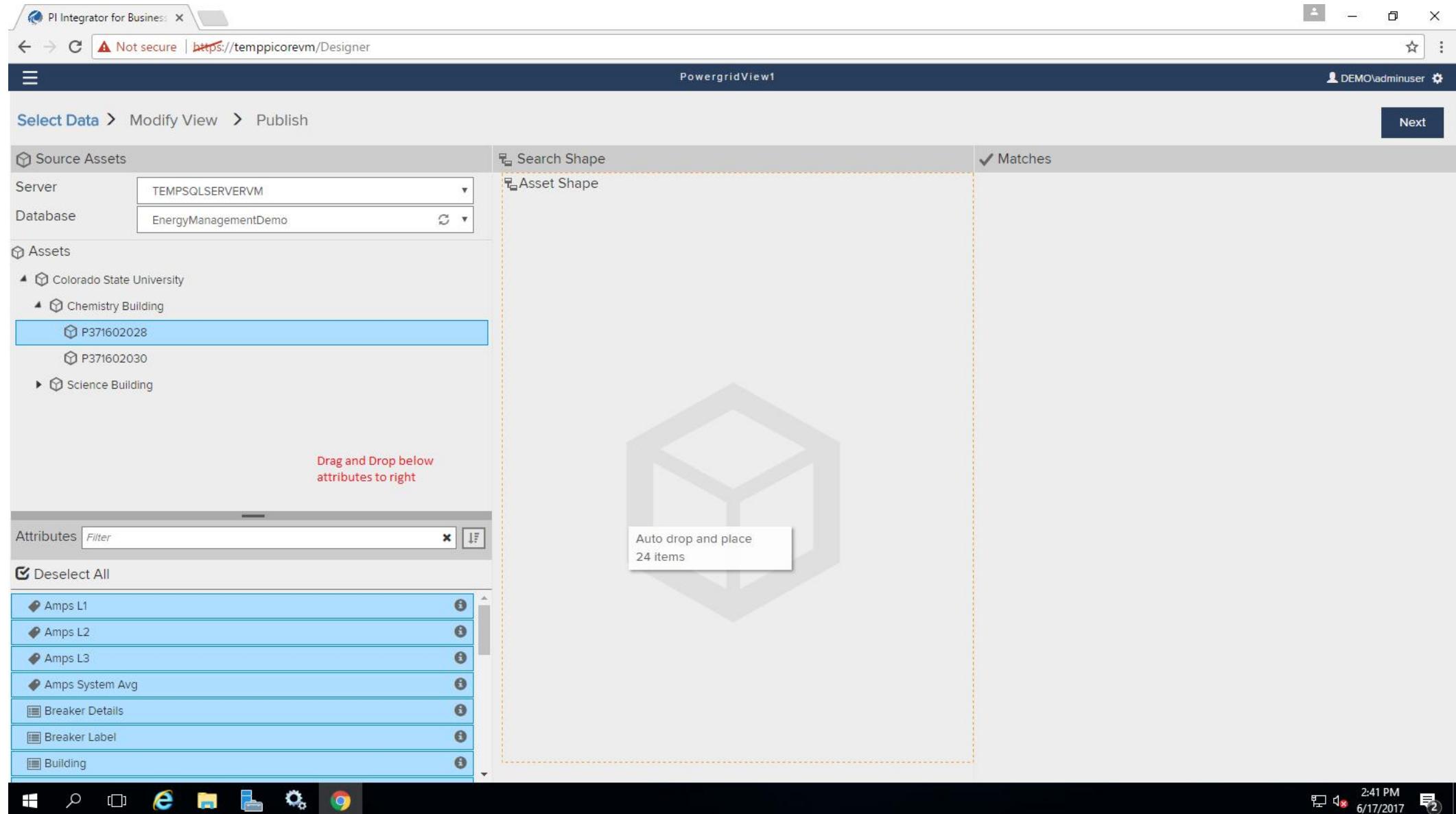
Deselect All

Amps L1	<span style="border: 1px solid #ccc; padding: 2px;">i</span>
Amps L2	<span style="border: 1px solid #ccc; padding: 2px;">i</span>
Amps L3	<span style="border: 1px solid #ccc; padding: 2px;">i</span>
Amps System Avg	<span style="border: 1px solid #ccc; padding: 2px;">i</span>
Breaker Details	<span style="border: 1px solid #ccc; padding: 2px;">i</span>
Breaker Label	<span style="border: 1px solid #ccc; padding: 2px;">i</span>
Building	<span style="border: 1px solid #ccc; padding: 2px;">i</span>

PowergridView1

Search Shape Asset Shape ✓ Matches

Auto drop and place 24 items



PI Integrator for Business Not secure | https://tempcorevm/Designer

**PowergridView1**

Select Data > Modify View > Publish Next

**Source Assets**

Server: TEMPSQLSERVERVM

Database: EnergyManagementDemo

**Assets**

- Colorado State University
- Chemistry Building
- P371602028 (Selected)
- P371602030
- Science Building

**Search Shape**

P371602028

- Amps L1
- Amps L2
- Amps L3
- Amps System Avg
- Breaker Details
- Breaker Label
- Building
- Daily Electric Cost
- Daily kWh System
- Modbus Base Address
- Monthly Electric Cost
- Monthly kWh System
- Rated Amperage
- ReadingTime
- Rolling Hourly kWh System
- Serial Number
- Type
- Volts L1 to Neutral
- Volts L2 to Neutral
- Volts L3 to Neutral

**Matches**

Found 1 Match

- P371602028

**Attributes**  Select All

Icon	Attribute	
	Amps L1	<input type="checkbox"/>
	Amps L2	<input type="checkbox"/>
	Amps L3	<input type="checkbox"/>
	Amps System Avg	<input type="checkbox"/>
	Breaker Details	<input type="checkbox"/>
	Breaker Label	<input type="checkbox"/>
	Building	<input type="checkbox"/>
	Daily Electric Cost	<input type="checkbox"/>
	Daily kWh System	<input type="checkbox"/>
	Modbus Base Address	<input type="checkbox"/>
	Monthly Electric Cost	<input type="checkbox"/>
	Monthly kWh System	<input type="checkbox"/>
	Rated Amperage	<input type="checkbox"/>
	ReadingTime	<input type="checkbox"/>
	Rolling Hourly kWh System	<input type="checkbox"/>
	Serial Number	<input type="checkbox"/>
	Type	<input type="checkbox"/>
	Volts L1 to Neutral	<input type="checkbox"/>
	Volts L2 to Neutral	<input type="checkbox"/>
	Volts L3 to Neutral	<input type="checkbox"/>

Windows Taskbar:

System Tray: 2:41 PM 6/17/2017

PI Integrator for Business Not secure | https://templicorevm/Designer

PowergridView1 DEMO\adminuser

Select Data > Modify View > Publish

Source Assets

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - Chemistry Building
    - P371602028
    - P371602030
  - Science Building

Attributes Filter

Select All

- Amps L1
- Amps L2
- Amps L3
- Amps System Avg
- Breaker Details
- Breaker Label
- Building

Search Shape

Asset Shape

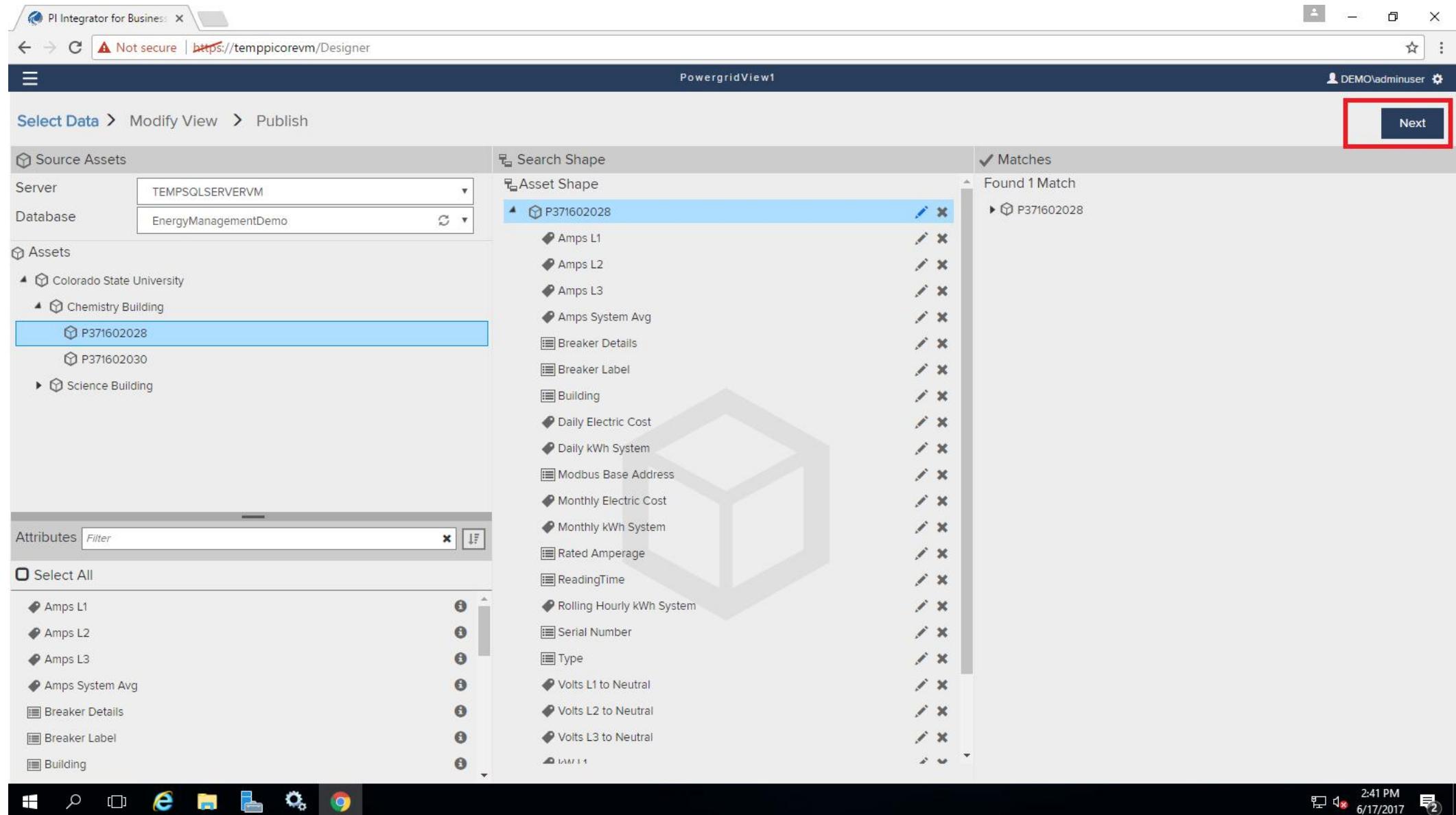
- P371602028
- Amps L1
- Amps L2
- Amps L3
- Amps System Avg
- Breaker Details
- Breaker Label
- Building
- Daily Electric Cost
- Daily kWh System
- Modbus Base Address
- Monthly Electric Cost
- Monthly kWh System
- Rated Amperage
- ReadingTime
- Rolling Hourly kWh System
- Serial Number
- Type
- Volts L1 to Neutral
- Volts L2 to Neutral
- Volts L3 to Neutral

Matches

Found 1 Match

- P371602028

Next



PI Integrator for Business Not secure https://tempcorevm/Designer PowergridView1 DEMO\adminuser Next

Select Data > Modify View > Publish

Source Assets

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - P371602028
  - P371602030
- Chemistry Building
- Science Building

Attributes Filter

ReadingTime, Rolling Hourly kWh System, Serial Number, Type, Volts L1 to Neutral, Volts L2 to Neutral, Volts L3 to Neutral, IMA 1

Edit Filters

Asset Name: P371602028  
Asset Template: PowerScout

Add Filter

Cancel Save



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### PowergridView1

Select Data > **Modify View** > Publish

**Next** (highlighted with a red box)

**Add Column** (26 columns) **Edit Row Filters** (0 Row Filters) **Edit Value Mode** (Interpolated Values Every 1 minute)

Start Time: \*-8h End Time: \*

Apply

PowerScout	TimeStamp	Amps L1	Amps L2	Amps L3	Amps System Avg	Breaker Details	Breaker Label
P371602028	17/06/2017 06:41:41.601	46.523	47.076	46.851	46.851	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:42:41.601	46.500	47.052	46.828	46.828	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:43:41.601	46.477	47.029	46.804	46.804	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:44:41.601	46.454	47.005	46.781	46.781	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:45:41.601	46.431	46.982	46.758	46.758	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:46:41.601	46.407	46.959	46.735	46.735	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:47:41.601	46.384	46.935	46.711	46.711	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:48:41.601	46.361	46.912	46.688	46.688	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:49:41.601	46.338	46.888	46.665	46.665	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:50:41.601	46.315	46.865	46.641	46.641	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:51:41.601	46.292	46.842	46.618	46.618	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:52:41.601	46.269	46.818	46.595	46.595	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:53:41.601	46.245	46.795	46.571	46.571	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:54:41.601	46.222	46.771	46.548	46.548	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:55:41.601	46.199	46.748	46.525	46.525	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:56:41.601	46.176	46.725	46.502	46.502	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:57:41.601	46.153	46.701	46.478	46.478	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:58:41.601	46.130	46.678	46.455	46.455	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 06:59:41.601	46.107	46.654	46.432	46.432	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 07:00:41.601	46.083	46.631	46.408	46.408	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 07:01:41.601	46.060	46.607	46.385	46.385	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 07:02:41.601	46.037	46.584	46.362	46.362	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm
P371602028	17/06/2017 07:03:41.601	46.014	46.561	46.338	46.338	New (2018) 4th floor panel ...	PP14 - 5th FI Electrical Rm


 2:41 PM  
6/17/2017

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PowergridView1 DEMO\adminuser

Select Data > Modify View > Publish Back

Target Configuration

PI View  
**EnergyManagementSQL**  
PI View

Run on a Schedule

Summary

Shape and Matches

- There are 4 Matching Instances

Timeframe and Interval

- Your Start Time is \*-8h
- Your End Time is \*
- Your Time Interval gets an interpolated measurement Every 1 minute

**Publish**



2:42 PM  
6/17/2017 2

PI Integrator for Business x

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PowergridView1

DEMO\administrator

Select Data > Modify View > Publish

Back

Target Configuration

EnergyManagementSQL

Run Once  
 Run on a Schedule

Summary

Shape and Matches

- There are 4 Matching Instances

Timeframe and Interval

- Your Start Time is \*-8h
- Your End Time is \*
- Your Time Interval gets an interpolated measurement Every 1 minute

Publish



2:42 PM  
6/17/2017

PI Integrator for Business Not secure https://tempcorevm/Designer PowergridView1 DEMO\adminuser Back

Select Data > Modify View > Publish

Target Configuration: EnergyManagementSQL

Run Once (radio button selected)

Run on a Schedule

Summary

Shape and Matches

- There are 4 Matching Instances

Timeframe and Interval

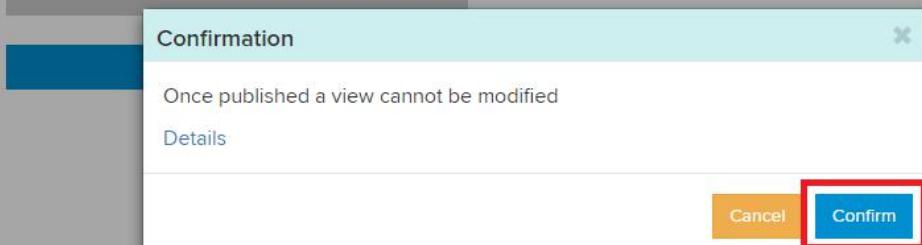
- Your Start Time is \*-8h
- Your End Time is \*
- Your Time Interval gets an interpolated measurement Every 1 minute

Confirmation

Once published a view cannot be modified

Details

Cancel Confirm



2:42 PM  
6/17/2017

PI Integrator for Business Not secure | https://templicorevm

My Views DEMO\adminuser

Name	Run Status	Type	Run Mode	Start Time	End Time	Last Run Time
PowergridView1	Publishing	Asset	Once	*-8h	*	17/06/2017 14:42

Overview Log Security



View Name

PowergridView1

PI AF Database

EnergyManagementDemo

Publish Target

EnergyManagementSQL

View Type

Asset

Run Mode

Once

Last Run Time

6/17/2017 2:42:24 PM

Your Start Time is

\*-8h

## Asset Shape

- ▲ PowerScout
  - ❖ Amps L1
  - ❖ Amps L2
  - ❖ Amps L3
  - ❖ Amps System Avg
- Breaker Details

2:42 PM  
6/17/2017

PI Integrator for Business Not secure | https://templicorevm

**My Views**

**Create Asset View**  
Build a data view starting with your asset hierarchy

**Create Event View**  
Build a data view starting with your event frame hierarchy

**Modify View**  
Modify existing data view

**Remove View**  
Remove selected view

Name	Run Status	Type	Run Mode	Start Time	End Time	Last Run Time
PowergridView1	Published	Asset	Once	*-8h	*	17/06/2017 14:42

Overview Log Security

Run Status	Published
View Name	PowergridView1 
PI AF Database	EnergyManagementDemo
Publish Target	EnergyManagementSQL
View Type	Asset
Run Mode	Once
Last Run Time	17/06/2017 14:42

**Search Shape**

**Asset Shape**

- PowerScout
  - Amps L1
  - Amps L2
  - Amps L3
  - Amps System Avg
- Breaker Details



2:42 PM  
6/17/2017 

PI Integrator for Business Not secure https://tempcorevm

My Views DEMO\adminuser

Name	Run Status	Type	Run Mode	Start Time	End Time	Last Run Time
PowergridView1	Published	Asset	Once	*-8h	*	17/06/2017 14:42

Create New Asset View

Asset View Name: PowergridView

Cancel Create View

Overview Log Security

Run Status Published

View Name: PowergridView! 

PI AF Database: EnergyManagementDemo

Publish Target: EnergyManagementSQL

View Type: Asset

Run Mode: Once

Last Run Time: 17/06/2017 14:42

Search Shape

Asset Shape:

- PowerScout
  - Amps L1
  - Amps L2
  - Amps L3
  - Amps System Avg
- Breaker Details

2:43 PM 6/17/2017 2

PI Integrator for Business Not secure | https://tempcorevm/Designer

Select Data > Modify View > Publish Next

Source Assets Search Shape  Asset Shape  Matches

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - Chemistry Building
    - P371602028
    - P371602030
  - Science Building

Attributes  Filter

Deselect All

- Amps L1
- Amps L2
- Amps L3
- Amps System Avg
- Breaker Details
- Breaker Label
- Building



Windows Taskbar: 2:43 PM 6/17/2017

PI Integrator for Business Not secure | https://tempcorevm/Designer

Select Data > Modify View > Publish Next

Source Assets

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - Chemistry Building
    - P371602028
    - P371602030
  - Science Building

Attributes Filter I

Deselect All

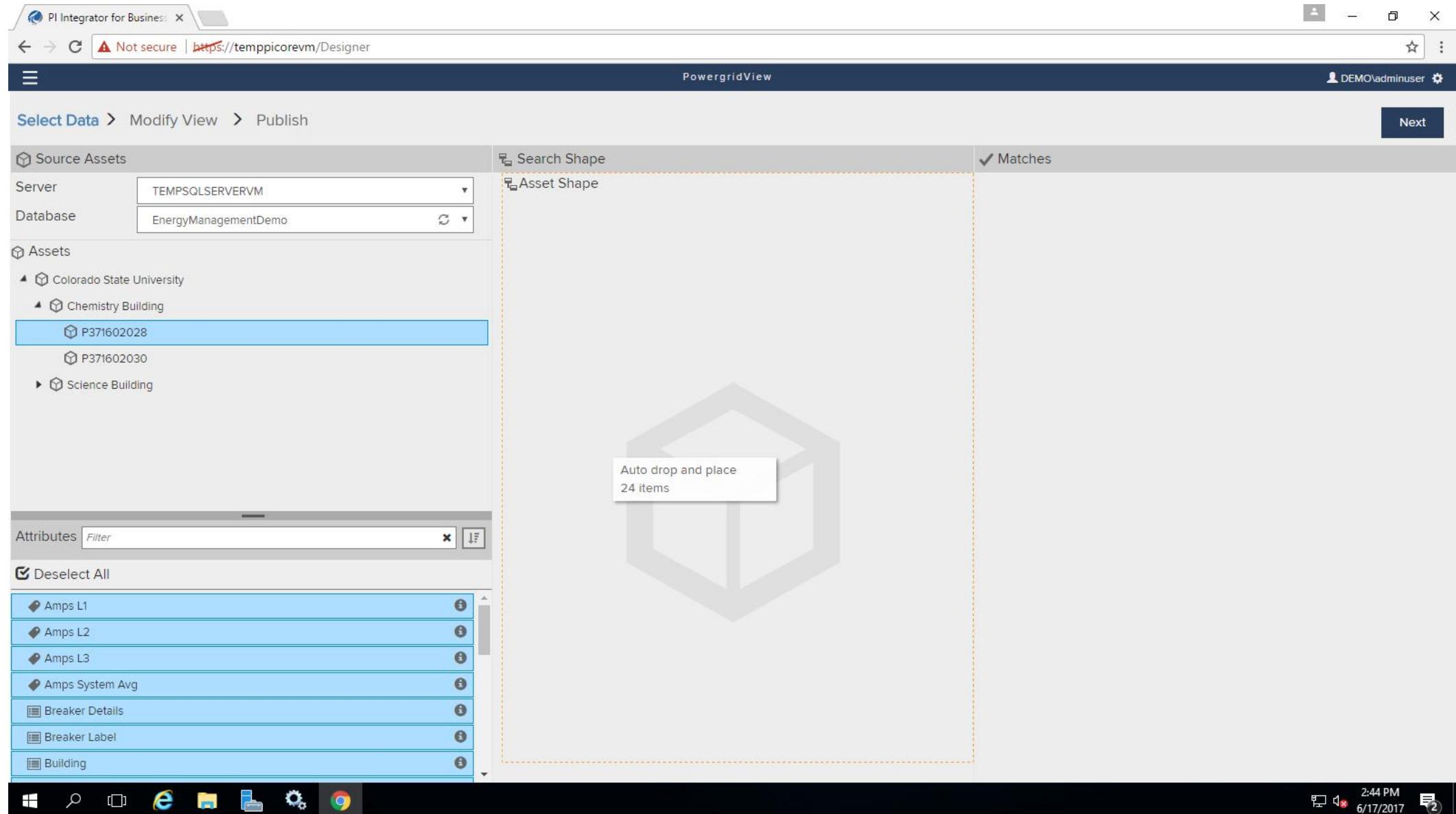
- Amps L1
- Amps L2
- Amps L3
- Amps System Avg
- Breaker Details
- Breaker Label
- Building

PowergridView DEMO\administrator

Search Shape Matches

Asset Shape

Auto drop and place  
24 items



PI Integrator for Business Not secure | https://tempcorevm/Designer

Select Data > Modify View > Publish

Source Assets

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - Chemistry Building
    - P371602028
    - P371602030
  - Science Building

Attributes Filter

Select All

- Amps L1
- Amps L2
- Amps L3
- Amps System Avg
- Breaker Details
- Breaker Label
- Building

PowergridView DEMO\adminuser

Search Shape

- P371602028
  - Amps L1
  - Amps L2

Matches

Found 1 Match

P371602028

**Edit Filters**

Asset Name  
P371602028

Asset Template  
PowerScout

+ Add Filter

Cancel Save

ReadingTime  
Rolling Hourly kWh System  
Serial Number  
Type  
Volts L1 to Neutral  
Volts L2 to Neutral  
Volts L3 to Neutral  
Watt

2:44 PM 6/17/2017

PI Integrator for Business x

Not secure | https://tempcorevm/Designer

Select Data > Modify View > Publish

PowergridView DEMO\adminuser

Source Assets

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - P371602028
  - P371602030
- Chemistry Building
- Science Building

Attributes Filter

Asset Name: P371602028

Asset Template: PowerScout

Add Filter

Cancel Save

ReadingTime, Rolling Hourly kWh System, Serial Number, Type, Volts L1 to Neutral, Volts L2 to Neutral, Volts L3 to Neutral, IMA 1

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2:44 PM 6/17/2017

PI Integrator for Business Not secure | https://templicorevm/Designer

Select Data > Modify View > Publish Next

Source Assets

Server: TEMPSQLSERVERVM  
Database: EnergyManagementDemo

Assets

- Colorado State University
  - Chemistry Building
    - P371602028 (Selected)
    - P371602030
  - Science Building

Attributes Filter

Select All

- Amps L1
- Amps L2
- Amps L3
- Amps System Avg
- Breaker Details
- Breaker Label
- Building

Search Shape

Asset Shape

- PowerScout
  - Amps L1
  - Amps L2
  - Amps L3
  - Amps System Avg
- Breaker Details
- Breaker Label
- Building
- Daily Electric Cost
- Daily kWh System
- Modbus Base Address
- Monthly Electric Cost
- Monthly kWh System
- Rated Amperage
- ReadingTime
- Rolling Hourly kWh System
- Serial Number
- Type
- Volts L1 to Neutral
- Volts L2 to Neutral
- Volts L3 to Neutral

Matches

Found 4 Matches

- P371602018
- P371602020
- P371602028
- P371602030

PI Integrator for Business Not secure | https://tempcorevm/Designer

### PowergridView

Select Data > Modify View > Publish

**Start Time:** \*-4h Start Time

**End Time:** \* End Time

**Apply** Next

PowerScout	TimeStamp	Amps L1	Amps L2	Amps L3	Amps System Avg	Breaker Details	Breaker Label
P371602018	17/06/2017 06:44:23.694	98.477	99.646	99.171	99.171	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:45:23.694	98.485	99.654	99.179	99.179	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:46:23.694	98.493	99.662	99.187	99.187	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:47:23.694	98.500	99.671	99.195	99.195	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:48:23.694	98.508	99.679	99.203	99.203	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:49:23.694	98.516	99.687	99.211	99.211	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:50:23.694	98.524	99.695	99.219	99.219	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:51:23.694	98.532	99.703	99.227	99.227	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:52:23.694	98.540	99.711	99.235	99.235	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:53:23.694	98.548	99.719	99.243	99.243	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:54:23.694	98.556	99.727	99.251	99.251	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:55:23.694	98.564	99.735	99.259	99.259	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:56:23.694	98.572	99.743	99.267	99.267	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:57:23.694	98.580	99.751	99.275	99.275	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:58:23.694	98.588	99.759	99.283	99.283	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 06:59:23.694	98.596	99.767	99.291	99.291	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 07:00:23.694	98.604	99.775	99.299	99.299	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 07:01:23.694	98.612	99.783	99.307	99.307	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 07:02:23.694	98.619	99.791	99.315	99.315	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 07:03:23.694	98.627	99.799	99.323	99.323	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 07:04:23.694	98.635	99.807	99.331	99.331	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 07:05:23.694	98.643	99.815	99.339	99.339	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm
P371602018	17/06/2017 07:06:23.694	98.651	99.823	99.347	99.347	New (2013) 3rd floor panel ...	PP31 - 3rd FI Electrical Rm

PI Integrator for Business x

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PowergridView DEMO\adminuser

Select Data > Modify View > Publish Back

**Target Configuration**

EnergyManagementSQL

Run Once  Run on a Schedule

**First Run**

2017-6-18 00:00:00

Recur every

1 Day

**Summary**

Shape and Matches

- There are 4 Matching Instances

Timeframe and Interval

- Your Start Time is \*-4h
- Your End Time is \*
- Your Time Interval gets an interpolated measurement Every 1 minute

**Publish**

2:46 PM  
6/17/2017

PI Integrator for Business Not secure https://tempcorevm/Designer PowergridView DEMO\adminuser Back

Select Data > Modify View > Publish

Target Configuration: EnergyManagementSQL

Run Once (radio button)

Run on a Schedule (radio button selected)

First Run: 2017-6-18 00:00:00

Recur every: 1 Day

Summary

Shape and Matches

- There are 4 Matching Instances

Timeframe and Interval

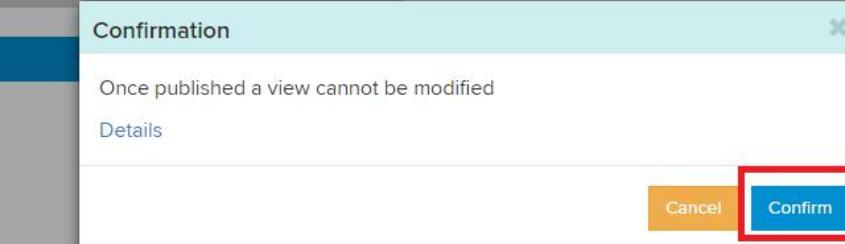
- Your Start Time is \*-4h
- Your End Time is \*
- Your Time Interval gets an interpolated measurement Every 1 minute

**Confirmation**

Once published a view cannot be modified

Details

Cancel Confirm

2:46 PM  
6/17/2017

PI Integrator for Business Not secure | https://templicorevm

**My Views**

DEMO\adminuser

Name	Run Status	Type	Run Mode	Start Time	End Time	Last Run Time
PowergridView1	Published	Asset	Once	*-8h	*	17/06/2017 14:42
PowergridView	Scheduled	Asset	Continuous	*-4h	*	Never

Overview Log Security

**Run Status**

View Name: PowergridView [Edit](#)  
 PI AF Database: EnergyManagementDemo  
 Publish Target: EnergyManagementSQL  
 View Type: Asset  
 Run Mode: Continuous  
 Run Frequency: 5 Minutes  
 Last Run Time: Never

**Scheduled**

PowergridView [Edit](#)  
 EnergyManagementDemo  
 EnergyManagementSQL  
 Asset  
 Continuous  
 5 Minutes  
 Never

**Publish Actions**

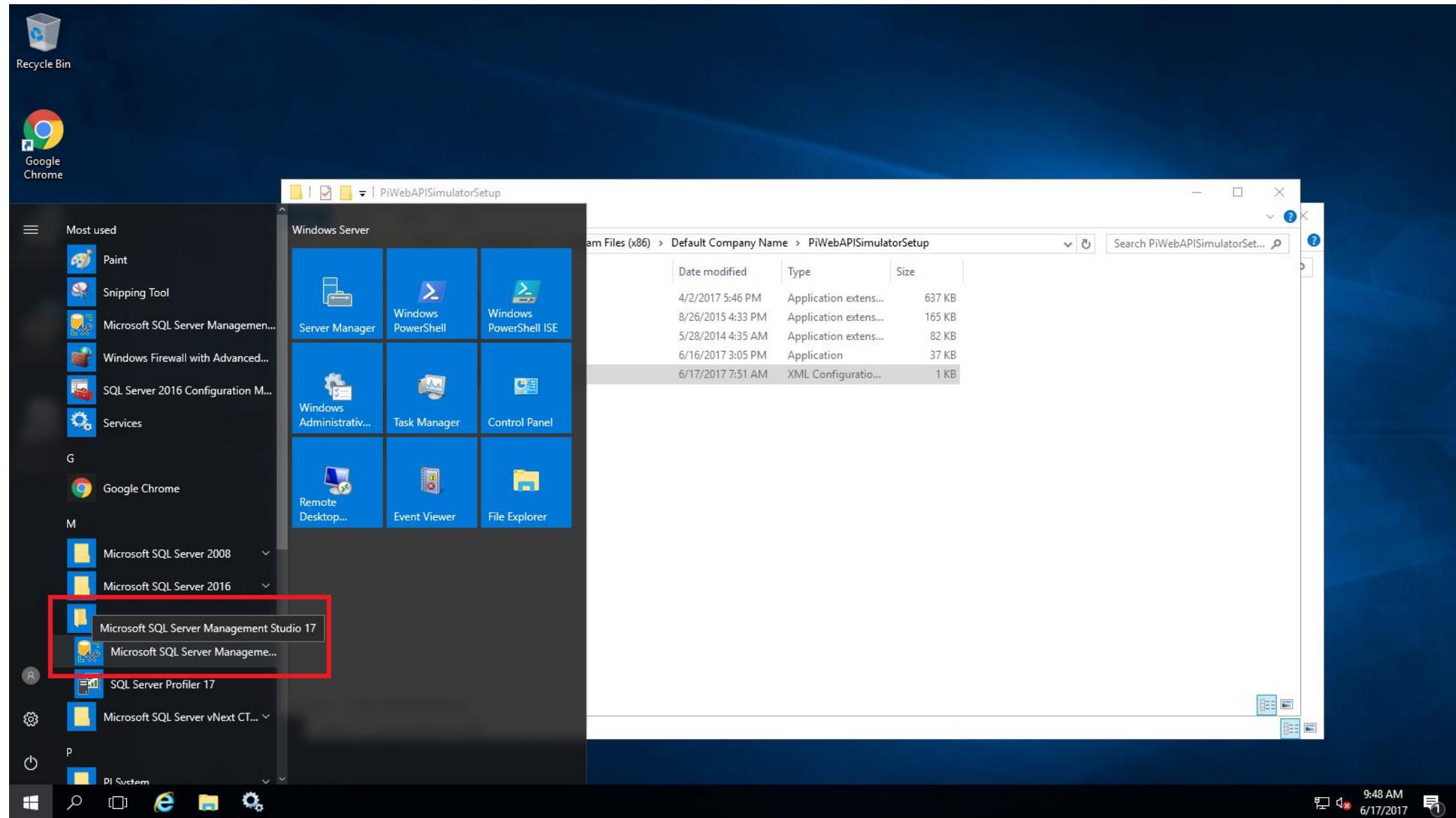
[Resume](#) [Stop](#)

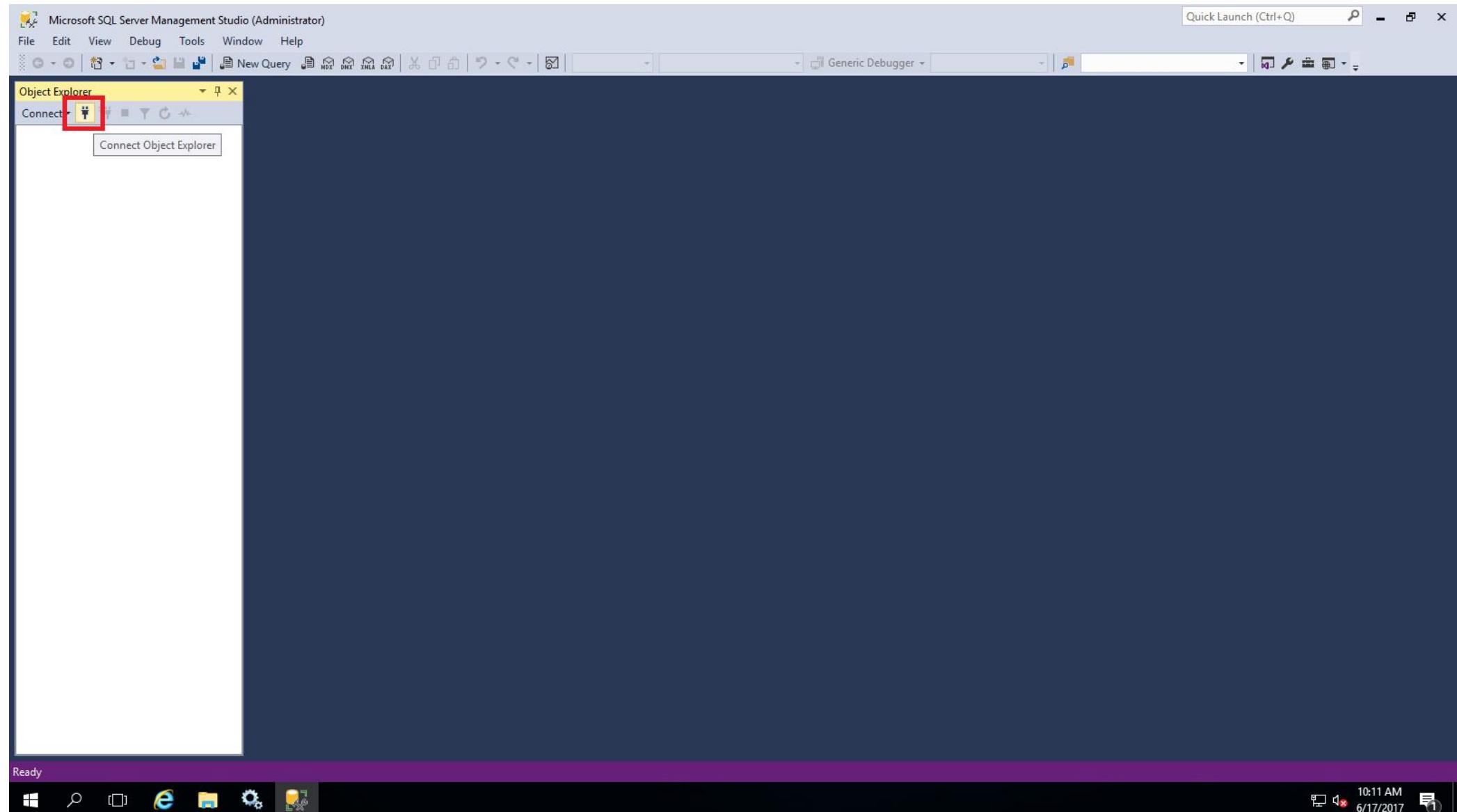
**Search Shape**

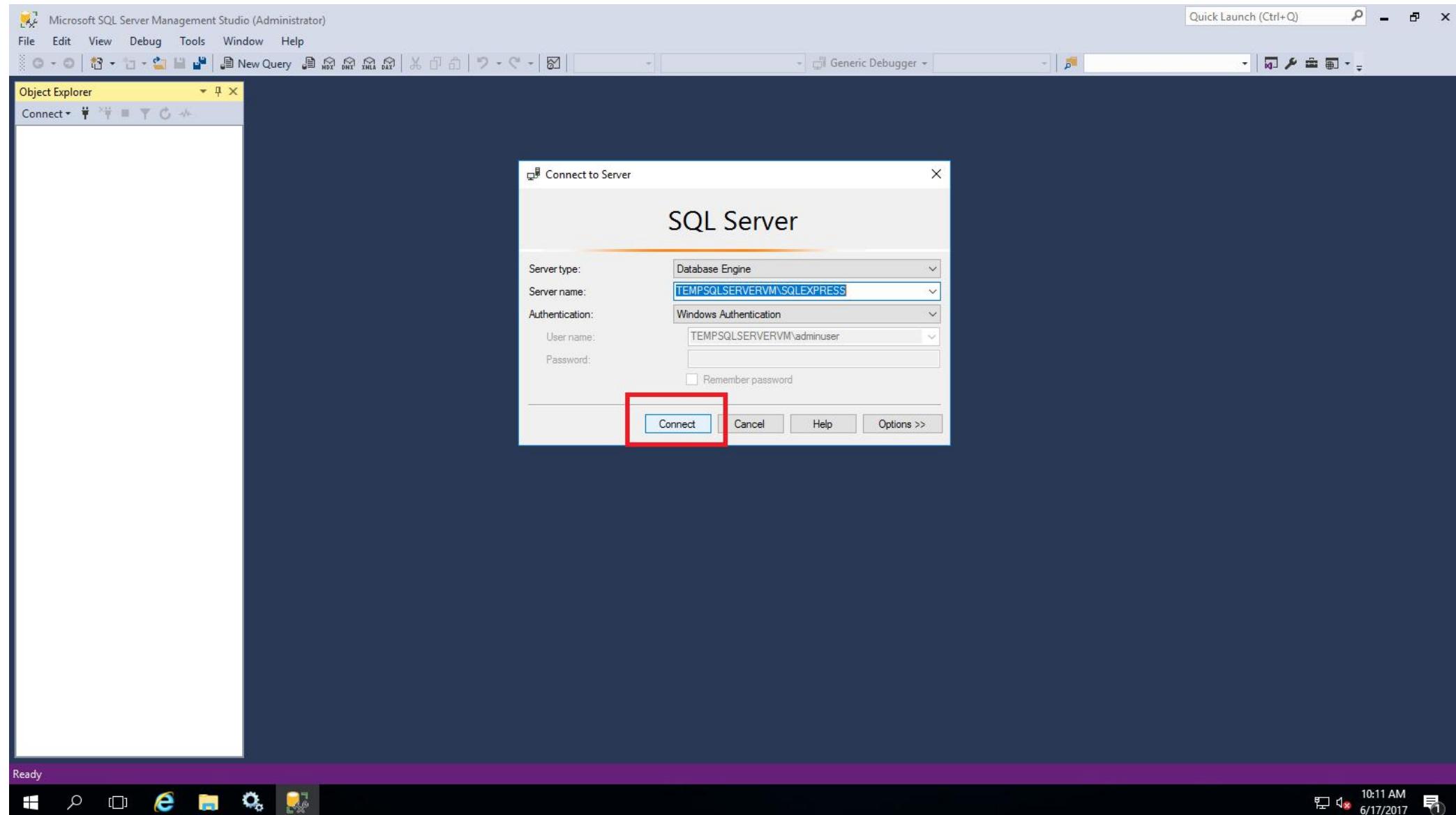
**Asset Shape**

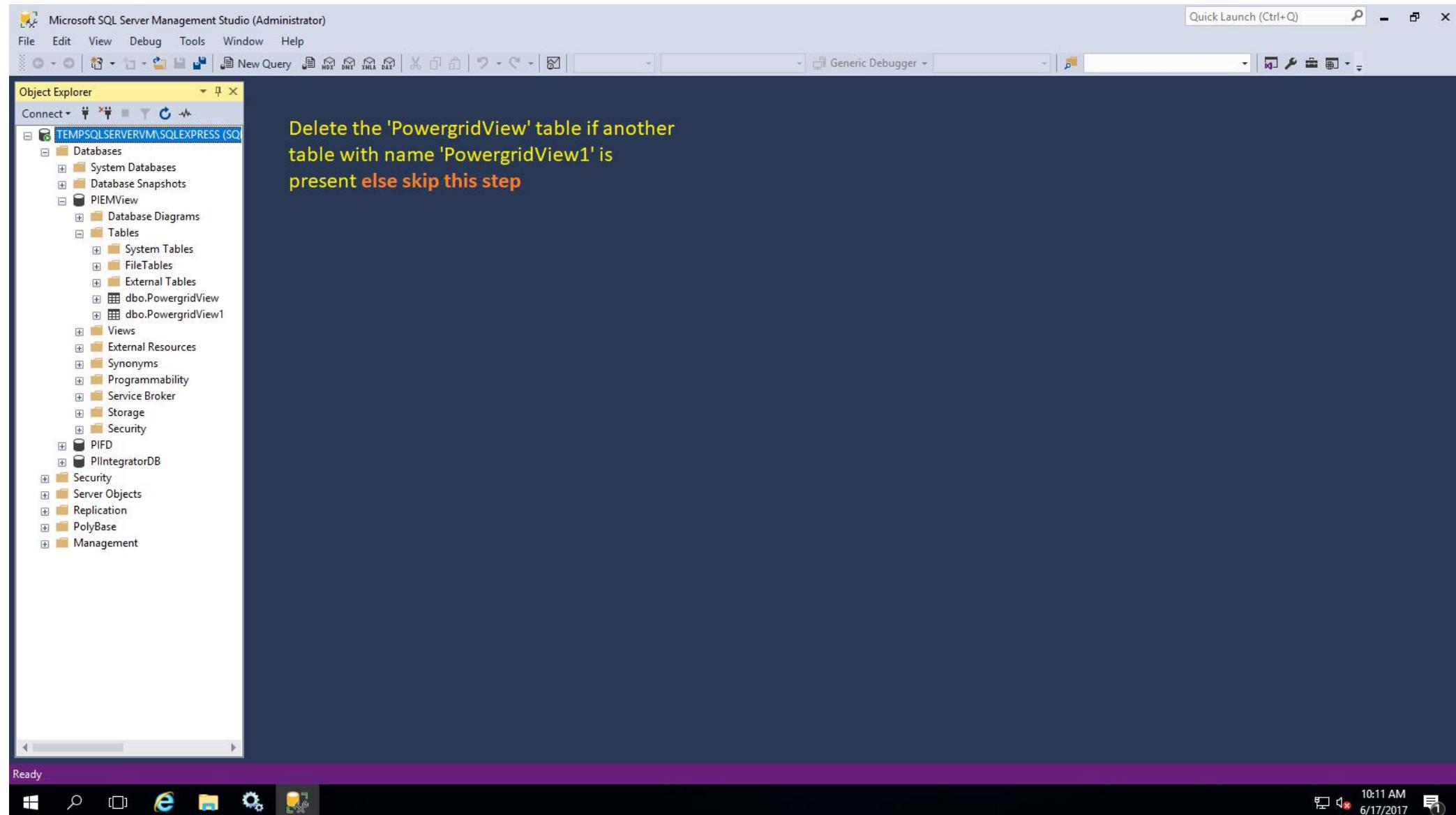
- PowerScout
  - Amps L1
  - Amps L2
  - Amps L3
  - Amps System Avg
  - Breaker Details

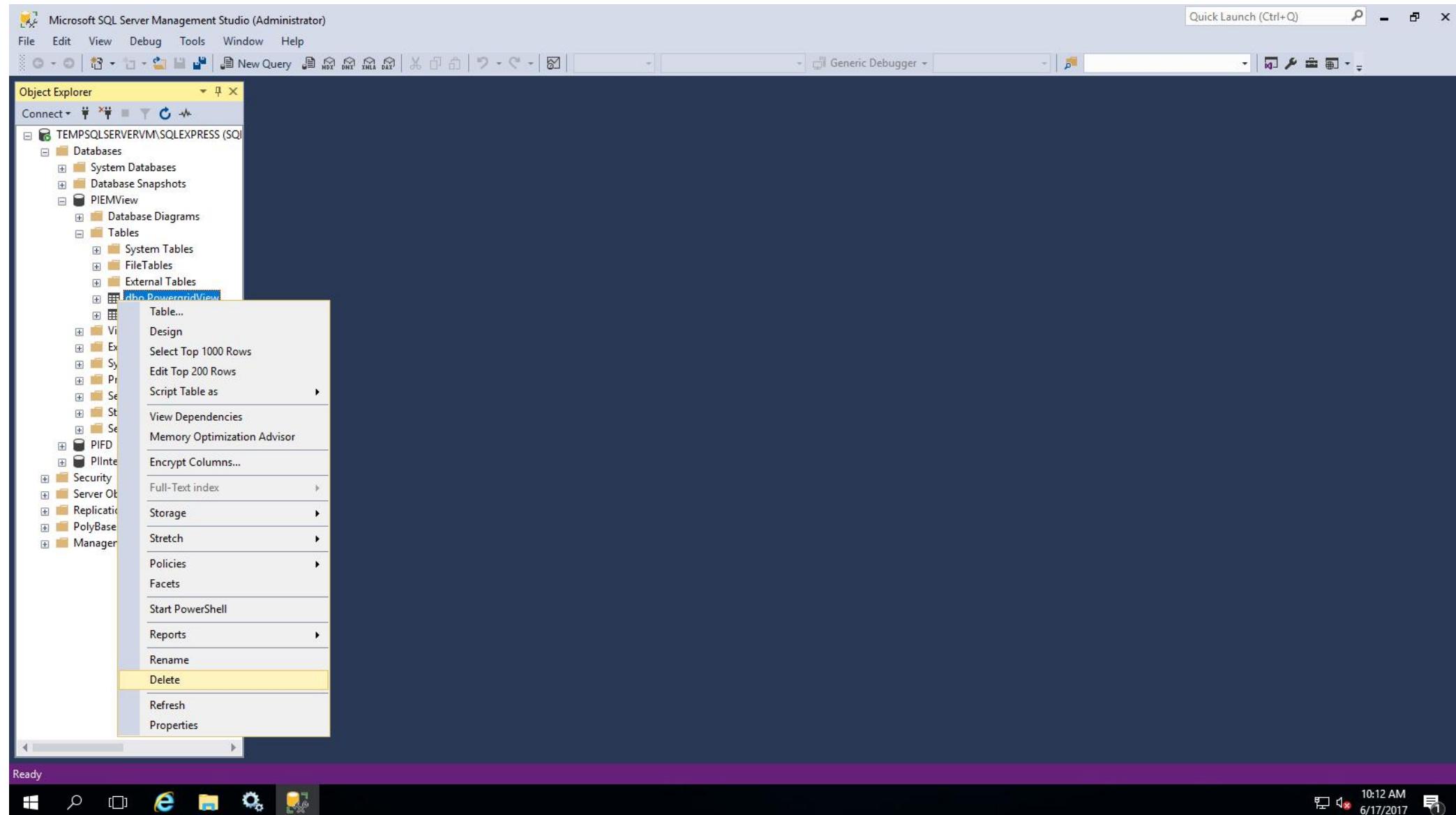
2:47 PM 6/17/2017 2

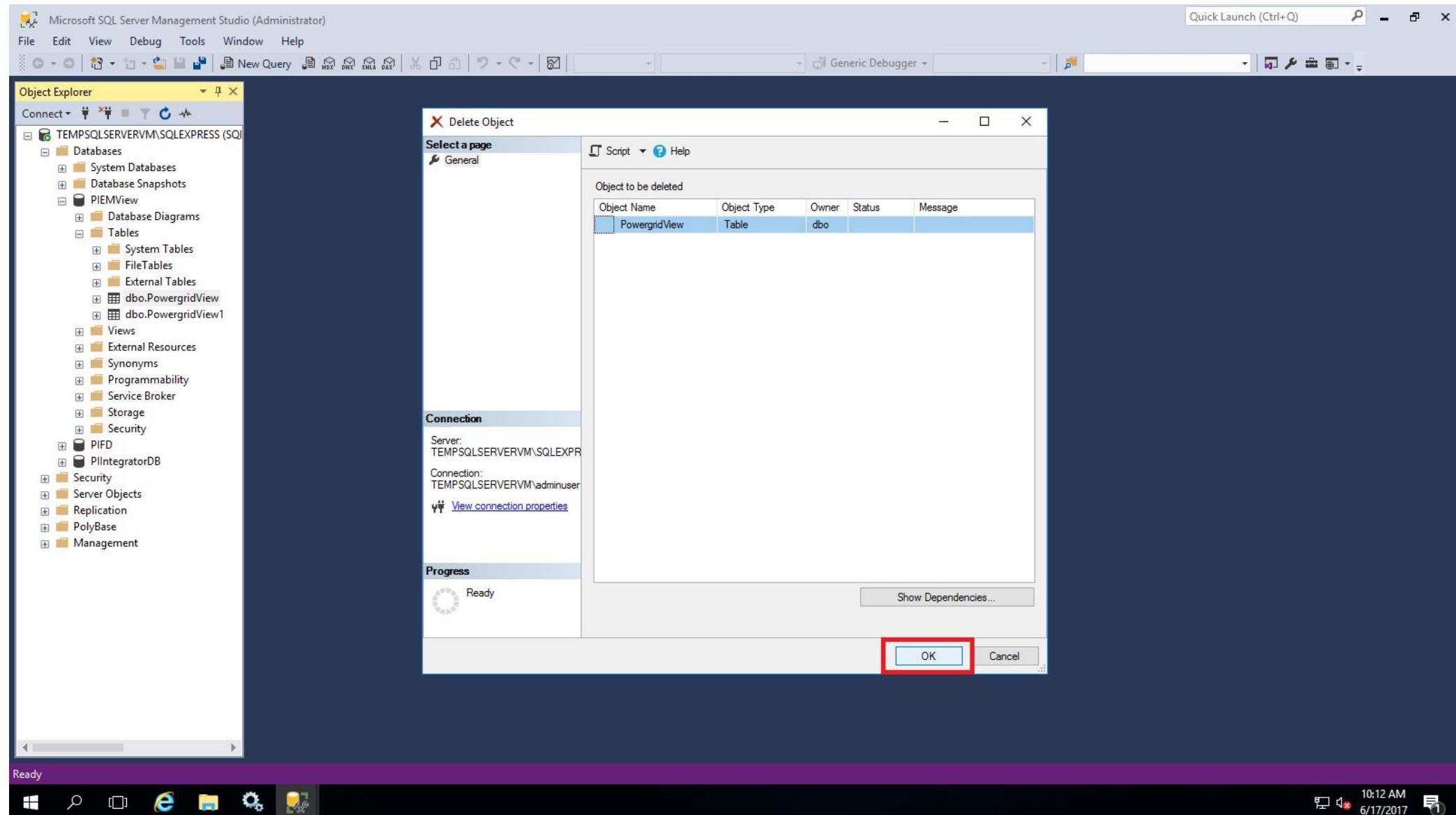


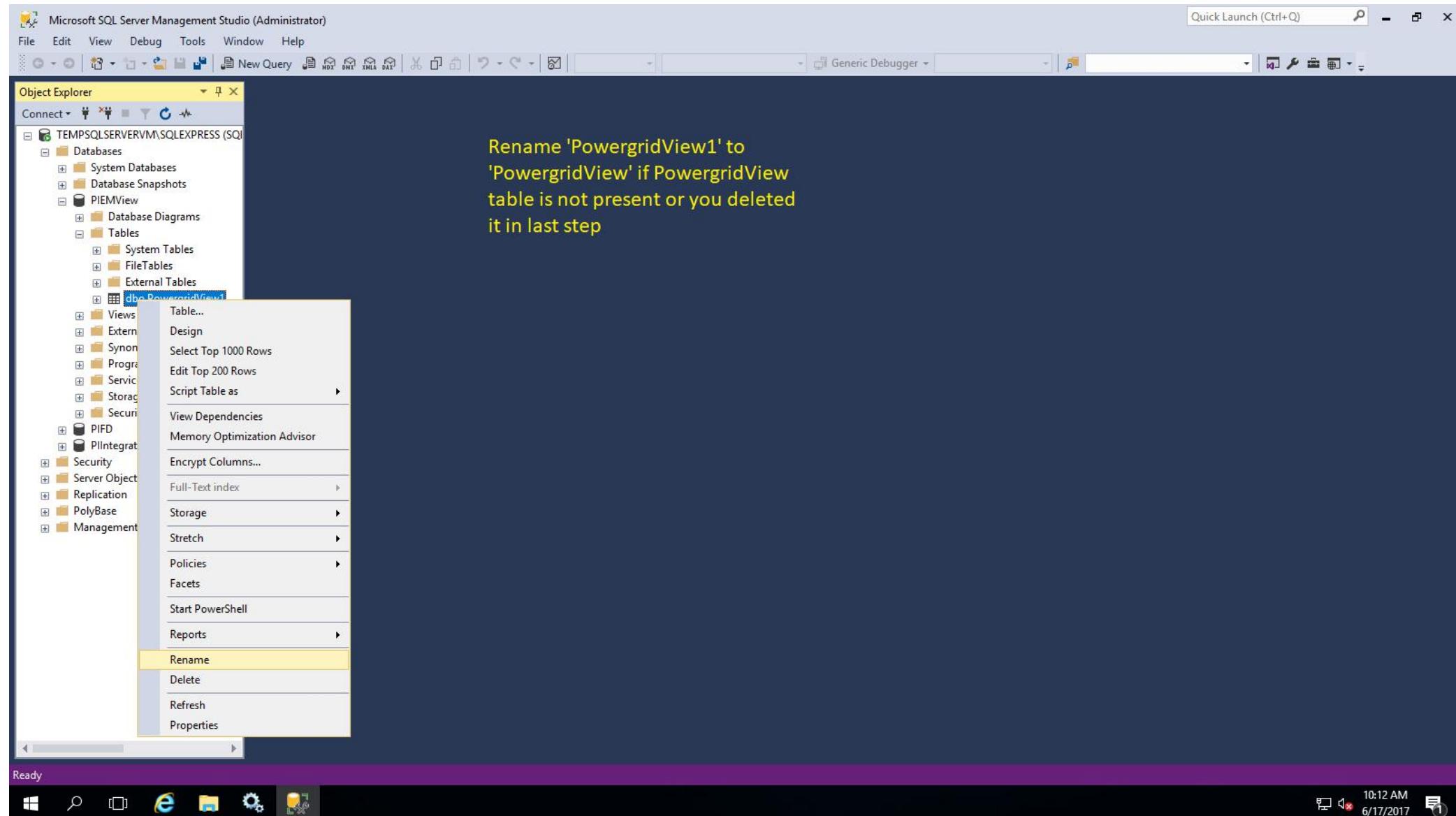


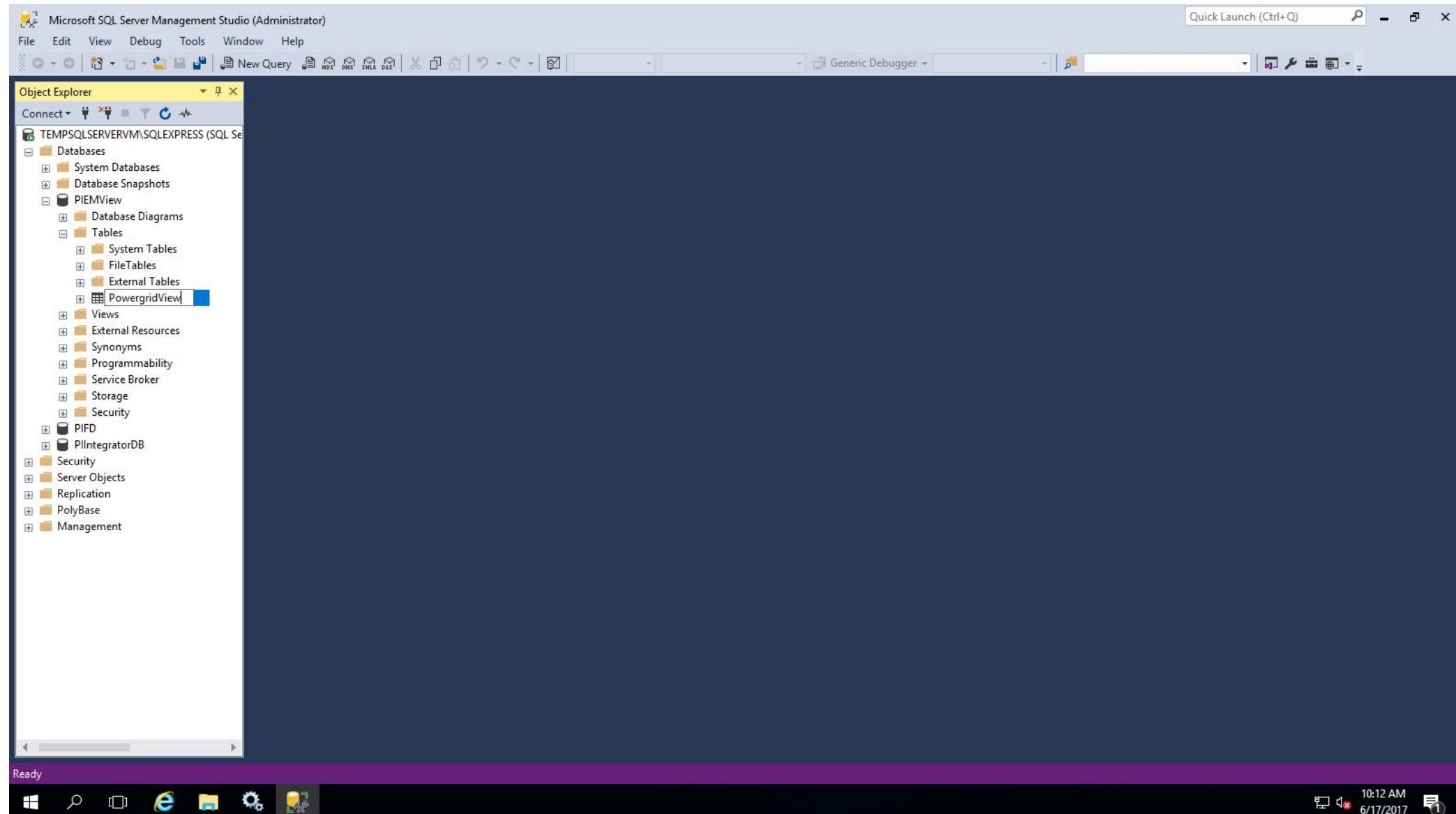


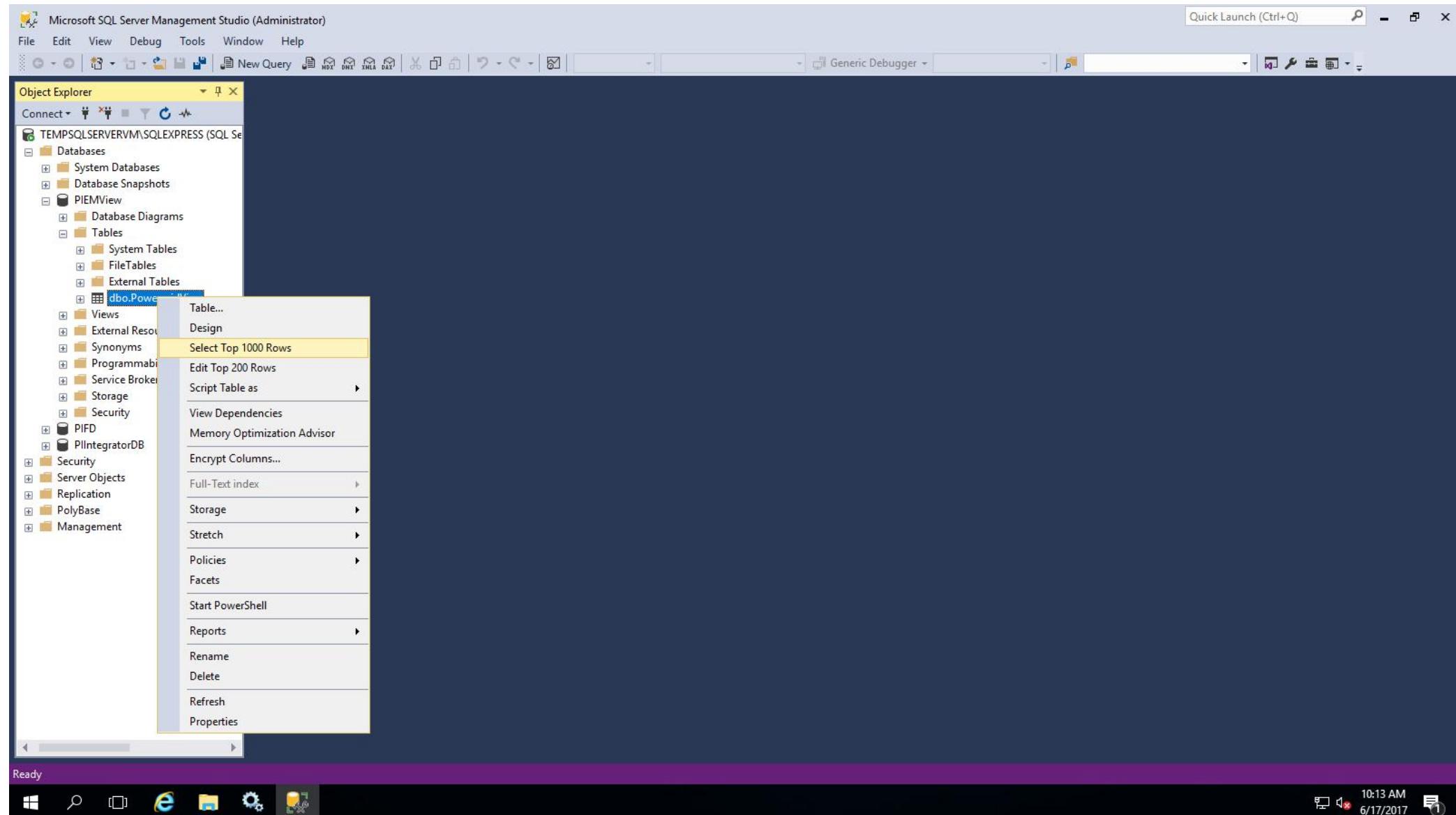












SQLQuery1.sql - TEMPSQLSERVERVM\SQLEXPRESS.PIEMView (TEMPSQLSERVERVM\adminuser (56)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug Tools Window Help

PIEMView Execute Debug

Object Explorer

SQLQuery1.sql - T...VM\adminuser (56) + X

```
***** Script for SelectTopNRows command from SSMS *****
SELECT TOP (1000) [Id]
    ,[PowerScout]
    ,[TimeStamp]
    ,[Amps L1]
    ,[Amps L2]
    ,[Amps L3]
    ,[Amps System Avg]
    ,[Breaker Details]
    ,[Breaker Label]
    ,[Building]
    ,[Daily Electric Cost]
    ,[Daily kWh System]
    ,[Modbus Base Address]
    ,[Monthly Electric Cost]
    ,[Monthly kWh System]
    ,[Rated Amperage]
    ,[ReadingTime]
    ,[Rolling Hourly kWh System]
    ,[Serial Number]
    ,[Type]
```

Properties

Current connection parameters

Aggregate Status

Connection failure: Elapsed time 00:00:00.547  
Finish time 6/17/2017 10:13:08 AM  
Name TEMPSQLSERVERVM\SO...  
Rows returned 1000  
Start time 6/17/2017 10:13:07 AM  
State Open

Connection

Connection elapsed 00:00:00.547  
Connection encrypt Not encrypted  
Connection finish t 6/17/2017 10:13:08 AM  
Connection rows re 1000  
Connection start ti 6/17/2017 10:13:07 AM  
Connection state Open  
Display name TEMPSQLSERVERVM\SO...  
Login name TEMPSQLSERVERVM\ad...  
Server name TEMPSQLSERVERVM\SO...  
Server version 13.0.4001  
Session Tracing ID  
SPID 56

Results

	Id	PowerScout	TimeStamp	Amps L1	Amps L2	Amps L3	Amps System Avg	Breaker Details	Breaker Label
1	1	P371602018	2017-06-17 06:42:24.597	98.4609484071887	99.6305013295543	99.1550115784318	99.1550115784318	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
2	2	P371602018	2017-06-17 06:43:24.597	98.468879535495	99.6385270895437	99.1629990352252	99.1629990352252	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
3	3	P371602018	2017-06-17 06:44:24.597	98.4768114999103	99.6465528495331	99.1709864920185	99.1709864920185	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
4	4	P371602018	2017-06-17 06:45:24.597	98.4847430462711	99.6545786095225	99.1789739488119	99.1789739488119	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
5	5	P371602018	2017-06-17 06:46:24.597	98.4926745926319	99.6626043695119	99.1869614056053	99.1869614056053	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
6	6	P371602018	2017-06-17 06:47:24.597	98.5006061389926	99.6706301295012	99.1949488623987	99.1949488623987	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
7	7	P371602018	2017-06-17 06:48:24.597	98.5085376853534	99.6786558894906	99.2029363191921	99.2029363191921	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
8	8	P371602018	2017-06-17 06:49:24.597	98.5164692317142	99.68668164948	99.2109237759855	99.2109237759855	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
9	9	P371602018	2017-06-17 06:50:24.597	98.524400778075	99.6947074094694	99.2189112327788	99.2189112327788	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
10	10	P371602018	2017-06-17 06:51:24.597	98.5323323244357	99.7027331694588	99.2268986895722	99.2268986895722	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
11	11	P371602018	2017-06-17 06:52:24.597	98.5402638707965	99.7107589294482	99.2348861463656	99.2348861463656	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
12	12	P371602018	2017-06-17 06:53:24.597	98.5481954171573	99.7187846894375	99.242873603159	99.242873603159	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
13	13	P371602018	2017-06-17 06:54:24.597	98.5561296935181	99.7268104494269	99.2508610599524	99.2508610599524	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F
14	14	P371602018	2017-06-17 06:55:24.597	98.5640585098789	99.7348267094163	99.2588485167458	99.2588485167458	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical F

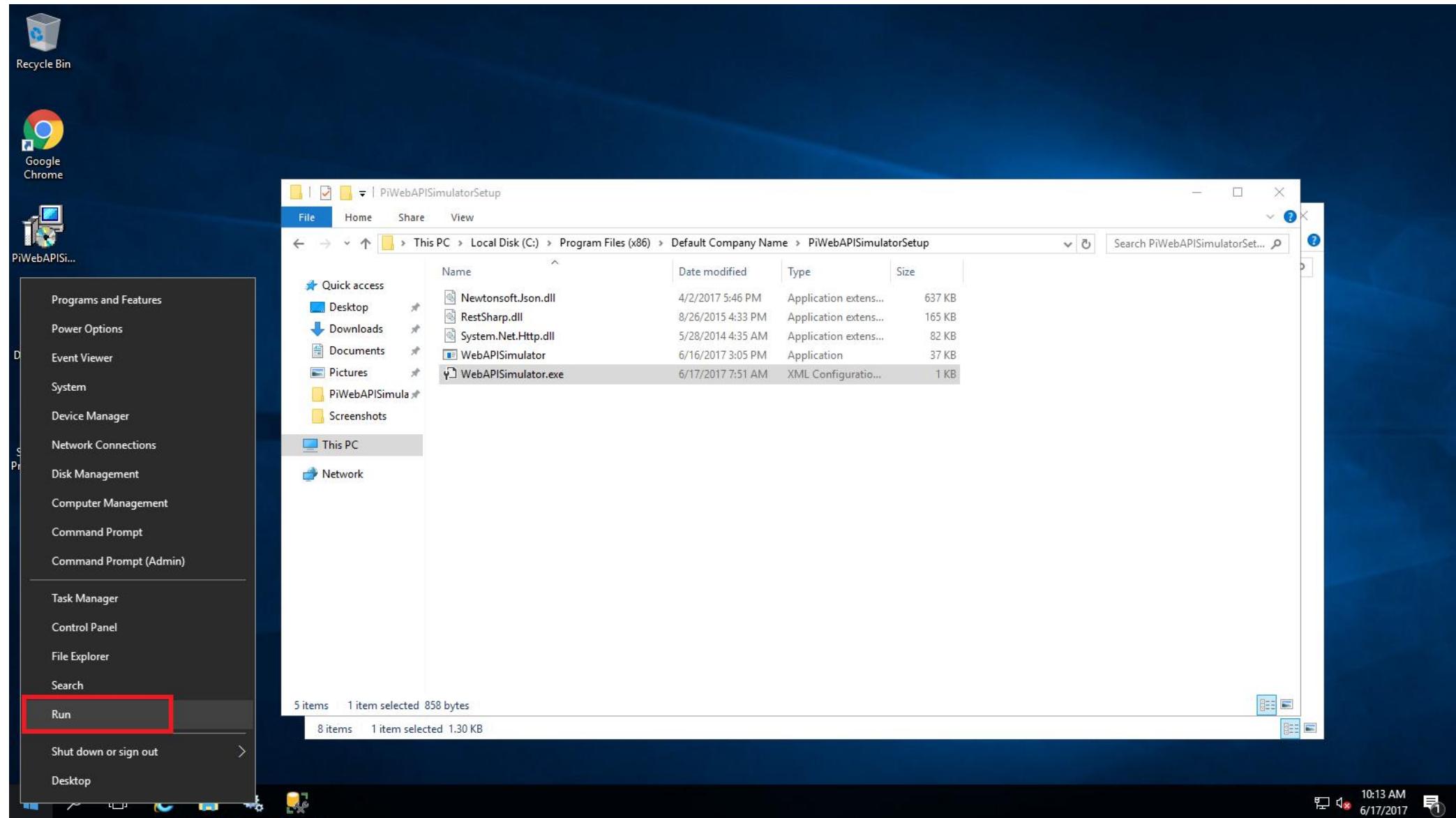
Query executed successfully.

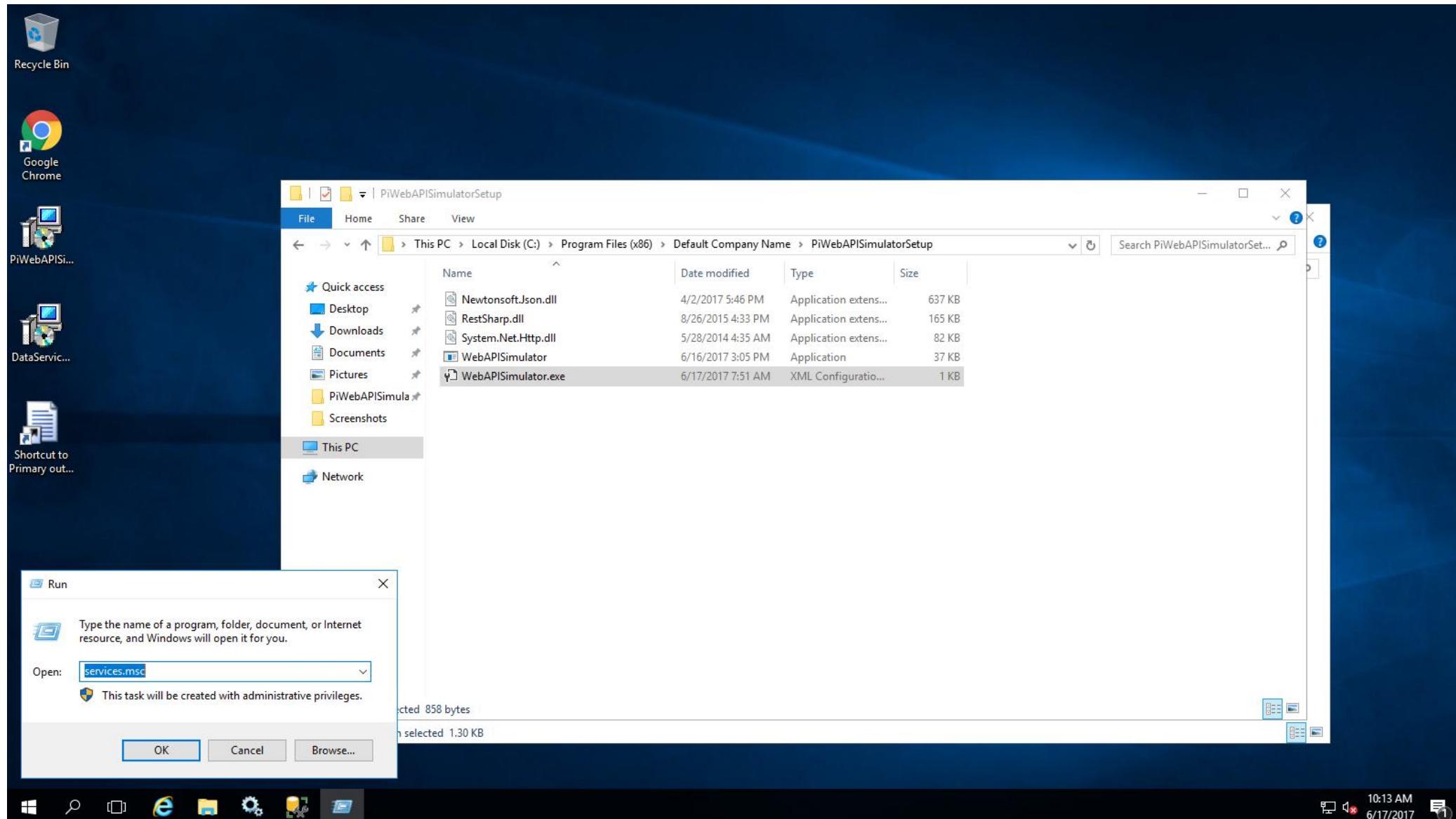
TEMPSQLSERVERVM\SQLEXPRESS ... | TEMPSQLSERVERVM\adminuser... | PIEMView | 00:00:00 | 1000 rows

Ready

Ln 1 Col 1 Ch 1 INS

10:13 AM 6/17/2017





Services

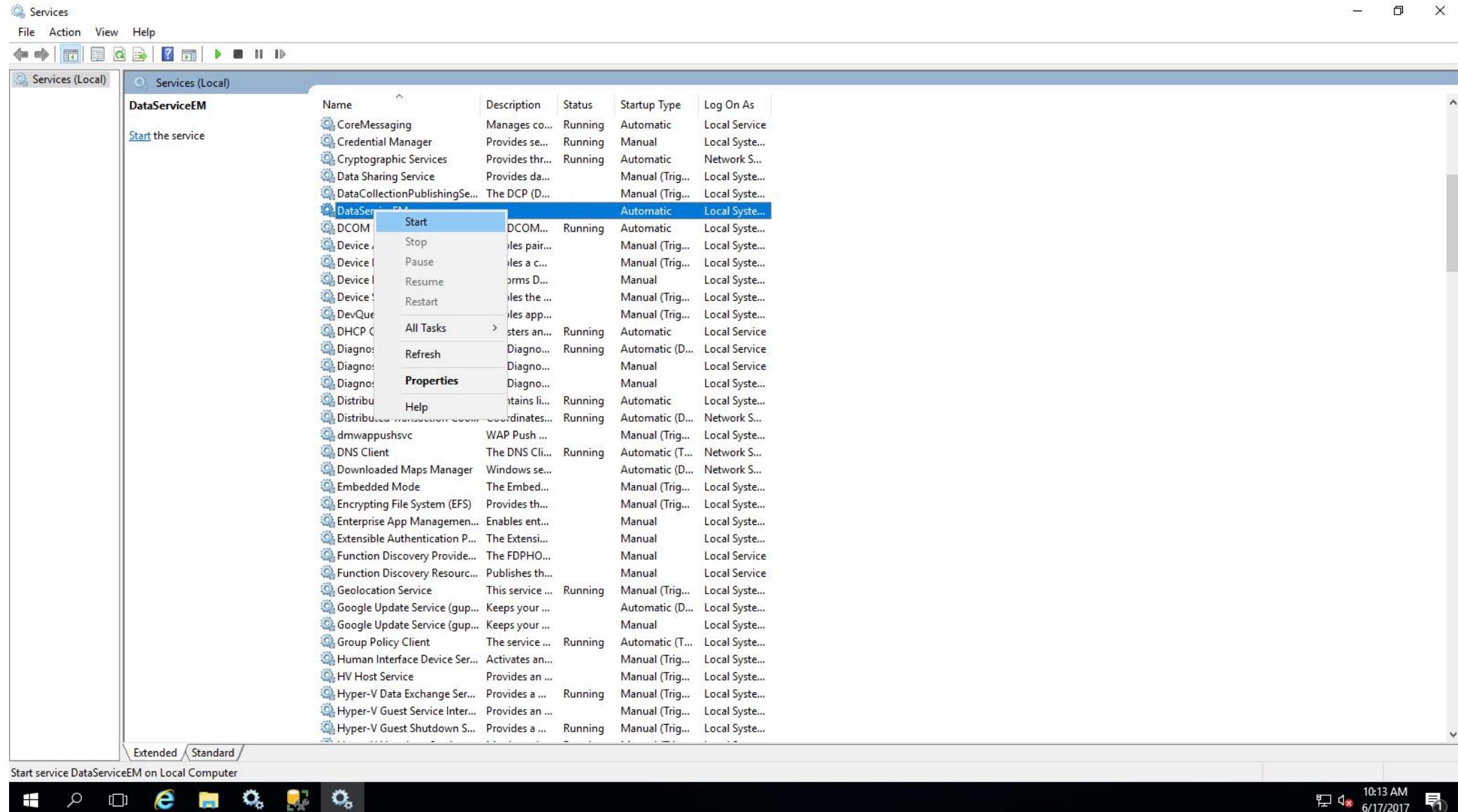
File Action View Help

Services (Local)

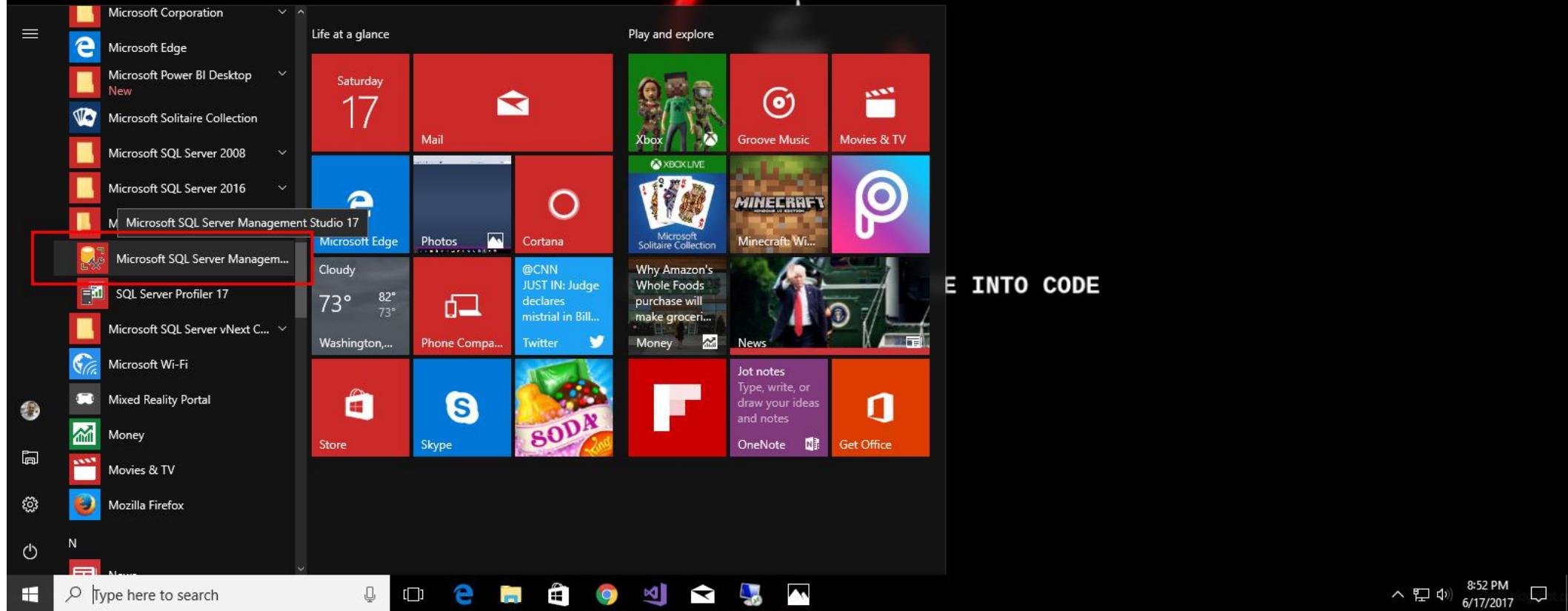
Name	Description	Status	Startup Type	Log On As
Data Sharing Service	Provides da...	Manual (Trig...	Local Syste...	
DataCollectionPublishingSe...	The DCP (D...	Manual (Trig...	Local Syste...	
<b>DataServiceEM</b>		<b>Automatic</b>	<b>Local Syste...</b>	
DCOM Server Process Laun...	The DCOM...	Running	Automatic	Local Syste...
Device Association Service	Enables pair...	Manual (Trig...	Local Syste...	
Device Install Service	Enables a c...	Manual (Trig...	Local Syste...	
Device Management Enroll...	Performs D...	Manual	Local Syste...	
Device Setup Manager	Enables the detection, download and installation of device-related software. If this service is disabled, devices may be configured with outdated software, and may not work correctly.			
DevQuery Background Disc...	Enables app...	Manual (Trig...	Local Syste...	
DHCP Client	Registers an...	Running	Automatic	Local Service
Diagnostic Policy Service	The Diagno...	Running	Automatic (D...	Local Service
Diagnostic Service Host	The Diagno...	Manual	Local Service	
Diagnostic System Host	The Diagno...	Manual	Local Syste...	
Distributed Link Tracking Cl...	Maintains li...	Running	Automatic	Local Syste...
Distributed Transaction Coo...	Coordinates...	Running	Automatic (D...	Network S...
dmwappushsvc	WAP Push ...	Manual (Trig...	Local Syste...	
DNS Client	The DNS Cli...	Running	Automatic (T...	Network S...
Downloaded Maps Manager	Windows se...		Automatic (D...	Network S...
Embedded Mode	The Embed...		Manual (Trig...	Local Syste...
Encrypting File System (EFS)	Provides th...		Manual (Trig...	Local Syste...
Enterprise App Management...	Enables ent...	Manual	Local Syste...	
Extensible Authentication P...	The Extensi...	Manual	Local Syste...	
Function Discovery Provide...	The FDPHO...	Manual	Local Service	
Function Discovery Resourc...	Publishes th...	Manual	Local Service	
Geolocation Service	This service ...	Running	Manual (Trig...	Local Syste...
Google Update Service (gup...)	Keeps your ...		Automatic (D...	Local Syste...
Google Update Service (gup...)	Keeps your ...		Manual	Local Syste...
Group Policy Client	The service ...	Running	Automatic (T...	Local Syste...
Human Interface Device Ser...	Activates an...		Manual (Trig...	Local Syste...
HV Host Service	Provides an ...		Manual (Trig...	Local Syste...
Hyper-V Data Exchange Ser...	Provides a ...	Running	Manual (Trig...	Local Syste...
Hyper-V Guest Service Inter...	Provides an ...		Manual (Trig...	Local Syste...
Hyper-V Guest Shutdown S...	Provides a ...	Running	Manual (Trig...	Local Syste...
Hyper-V Heartbeat Service	Monitors th...	Running	Manual (Trig...	Local Syste...
Hyper-V PowerShell Direct ...	Provides a ...		Manual (Trig...	Local Syste...
Hyper-V Remote Desktop Vi...	Provides a p...	Running	Manual (Trig...	Local Syste...

Extended Standard

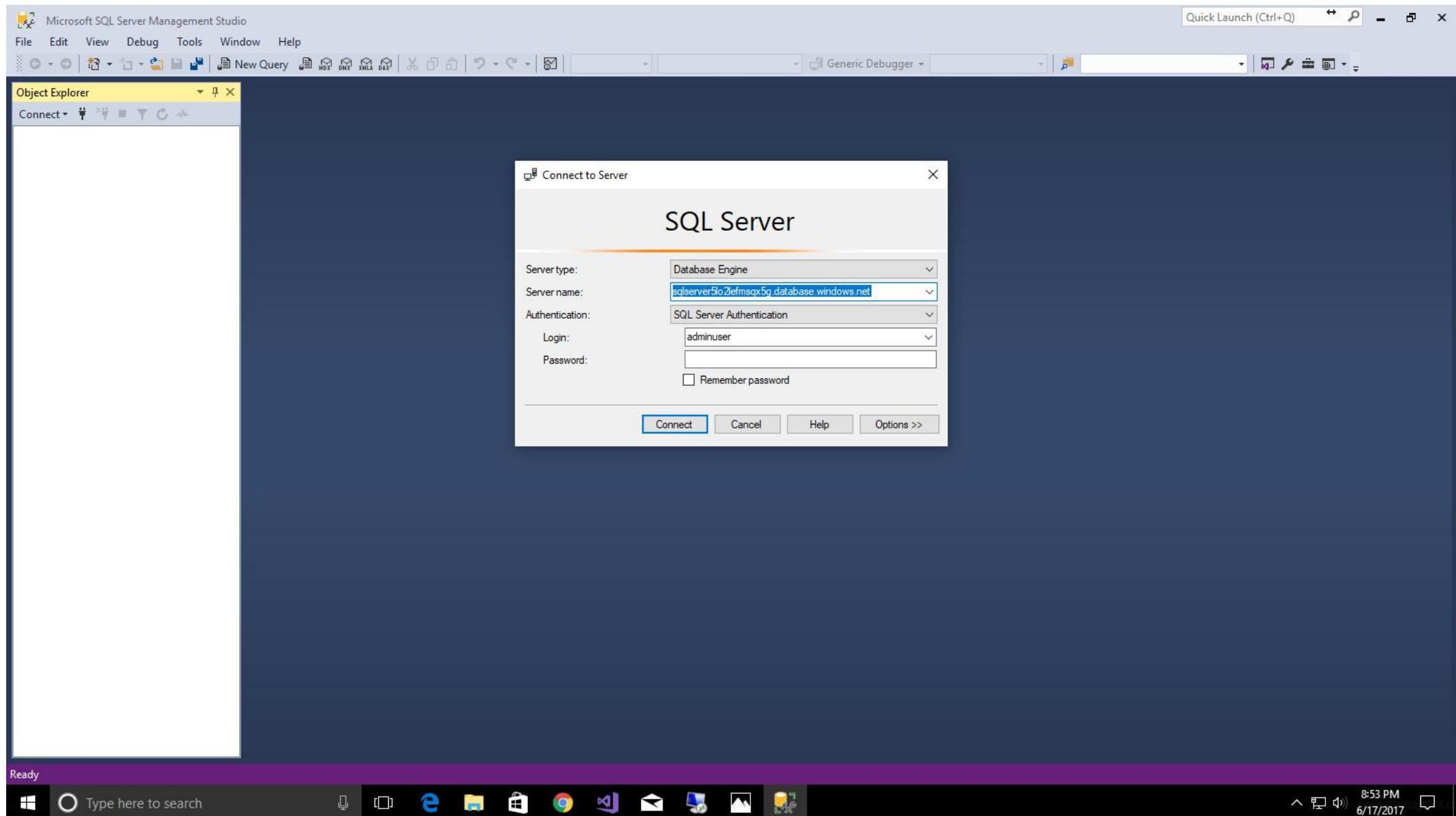
Windows Start Taskbar 10:13 AM 6/17/2017



# Open this on your pc|



INTO CODE



Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Sql/servers/sqlserveriz3uhyk7pimrc/databases/emdata/overview

Microsoft Azure Resource groups > DeployDemo > emdata

Search resources

**DeployDemo** Resource group

Add Columns Delete Refresh Move

Subscription name (change) CSU Pilot Deployments 2 Succeeded

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Filter by name... All types All locations No grouping

33 items

NAME	TYPE	LOCATION
MyVNET	Virtual network	West Central US
PINSG	Network security group	West Central US
PIPpublicIP	Public IP address	West Central US
PIVMNic	Network interface	West Central US
SQLNSG	Network security group	West Central US
SQLPublicIP	Public IP address	West Central US
sqlserveriz3uhyk7pimrc	SQL server	West Central US
<b>emdata</b>	SQL database	West Central US
SQLVMNic	Network interface	West Central US
TempPICoreVM	Virtual machine	West Central US
TempPICoreVM_disk1_e702514d5ec345628e1fd71e8ea...	Disk	West Central US
TempSQLServerVM	Virtual machine	West Central US

Overview Activity log Tags Diagnose and solve problems

Quick start Pricing tier (scale DTUs) Geo-Replication Auditing & Threat Detection Dynamic Data Masking Transparent data encryption Sync to other databases Properties Locks Automation script

More services >

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ShettyShetty

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Sql/servers/sqlserveriz3uhyk7pimrc/databases/emdata/overview

Microsoft Azure Resource groups > DeployDemo > emdata

emdata SQL database

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Overview

Activity log

Tags

Diagnose and solve problems

Quick start

Pricing tier (scale DTUs)

Geo-Replication

Auditing & Threat Detection

Dynamic Data Masking

Transparent data encryption

Sync to other databases

Properties

Locks

Automation script

MONITORING

DTU percentage

Server name  
sqlserveriz3uhyk7pimrc.database.windows.net

Connection strings  
Show database connection strings

Status  
Online

Location  
West Central US

Subscription name  
CSU Pilot

Subscription ID  
55d19f44-bf45-4d2d-a3cc-53f70a30228a

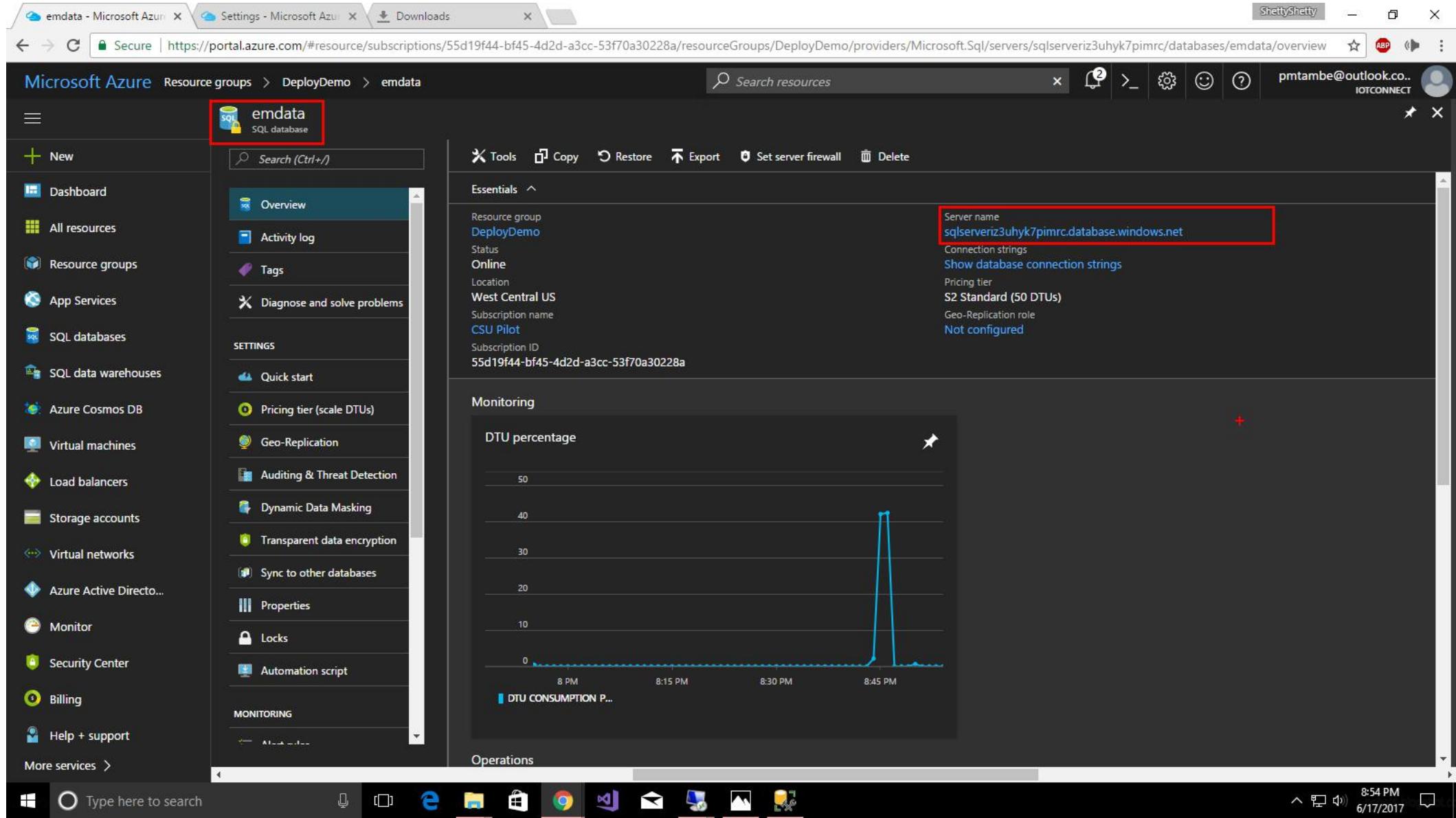
Pricing tier  
S2 Standard (50 DTUs)

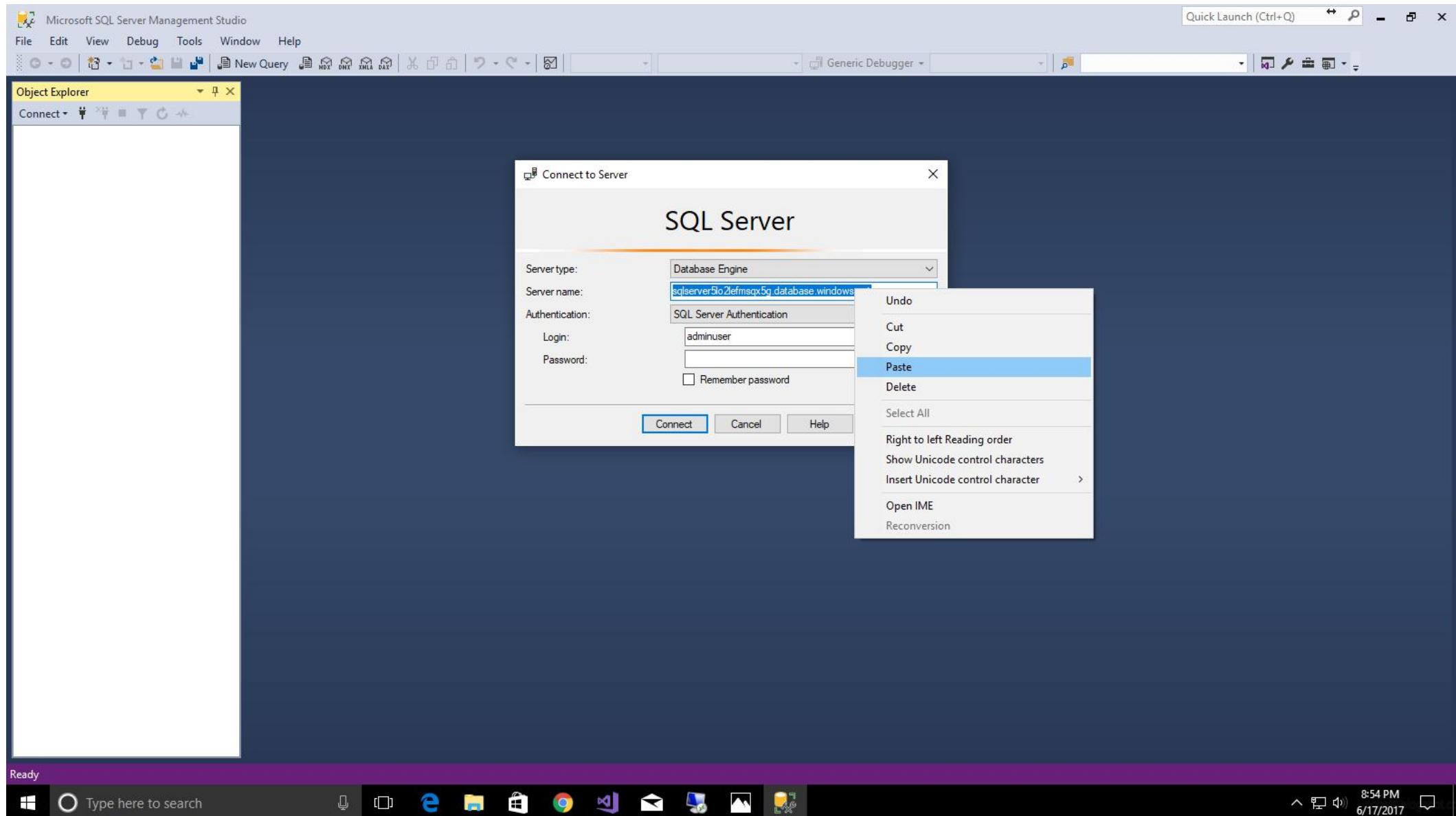
Geo-Replication role  
Not configured

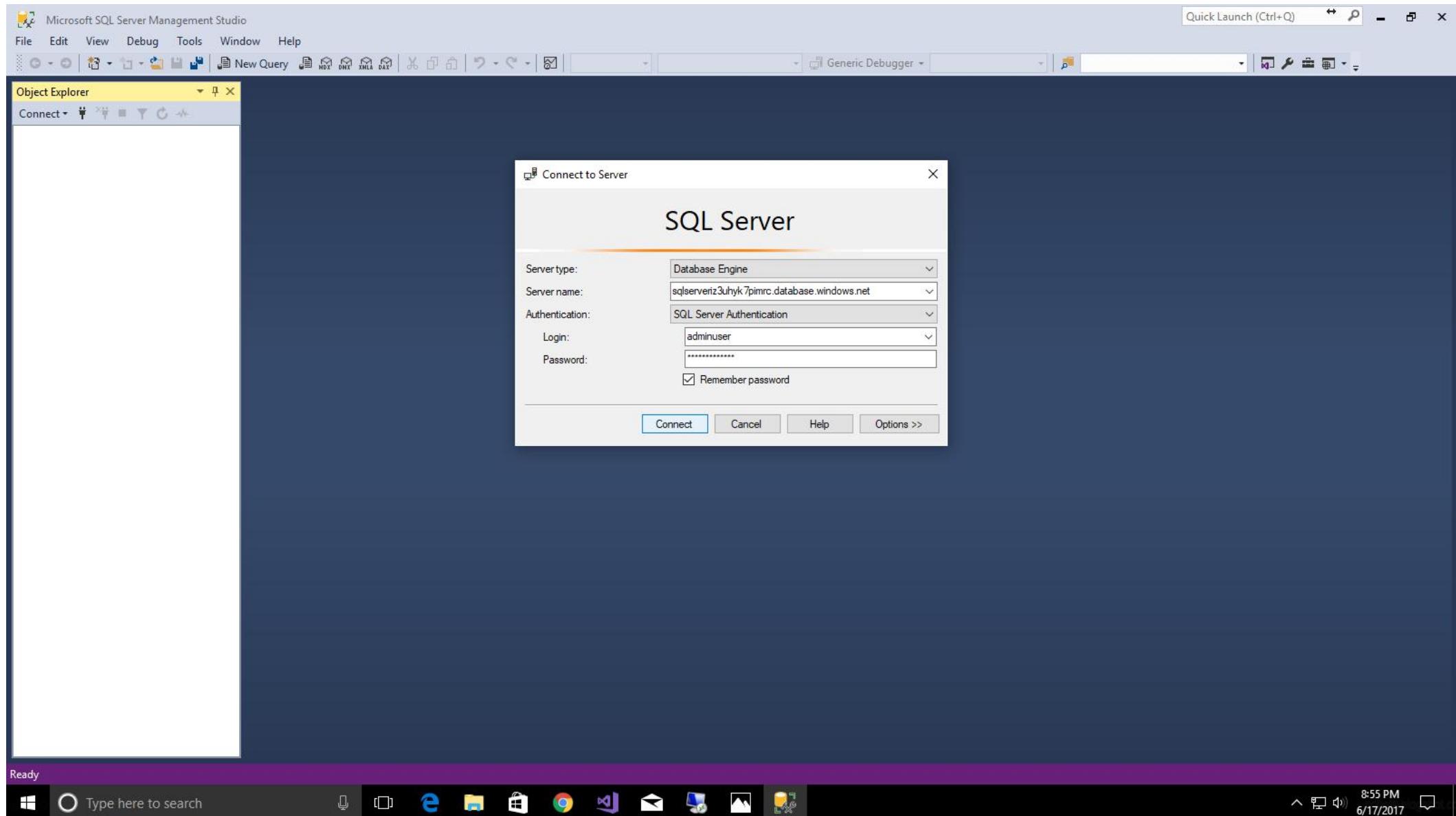
Monitoring

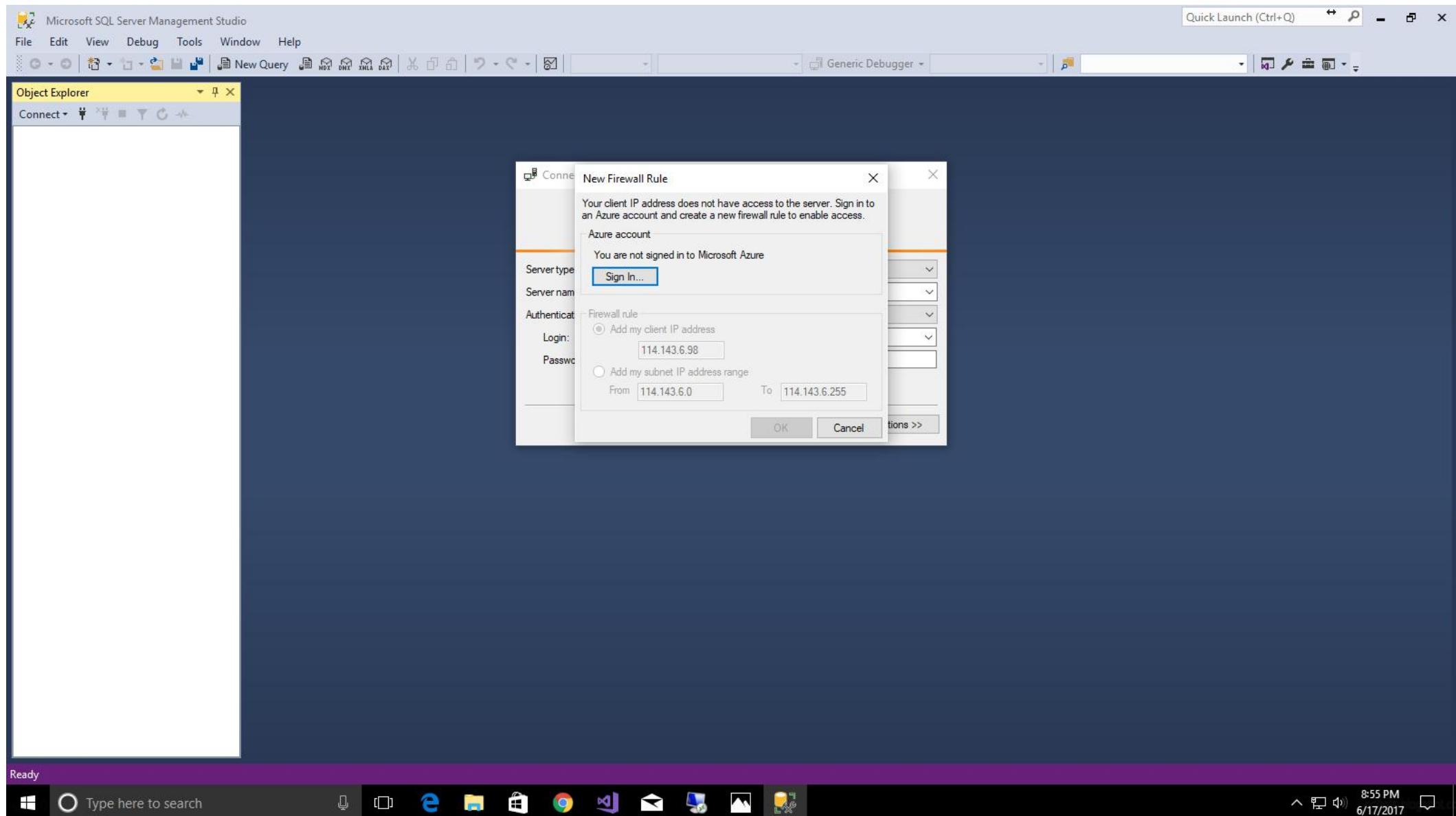
Operations

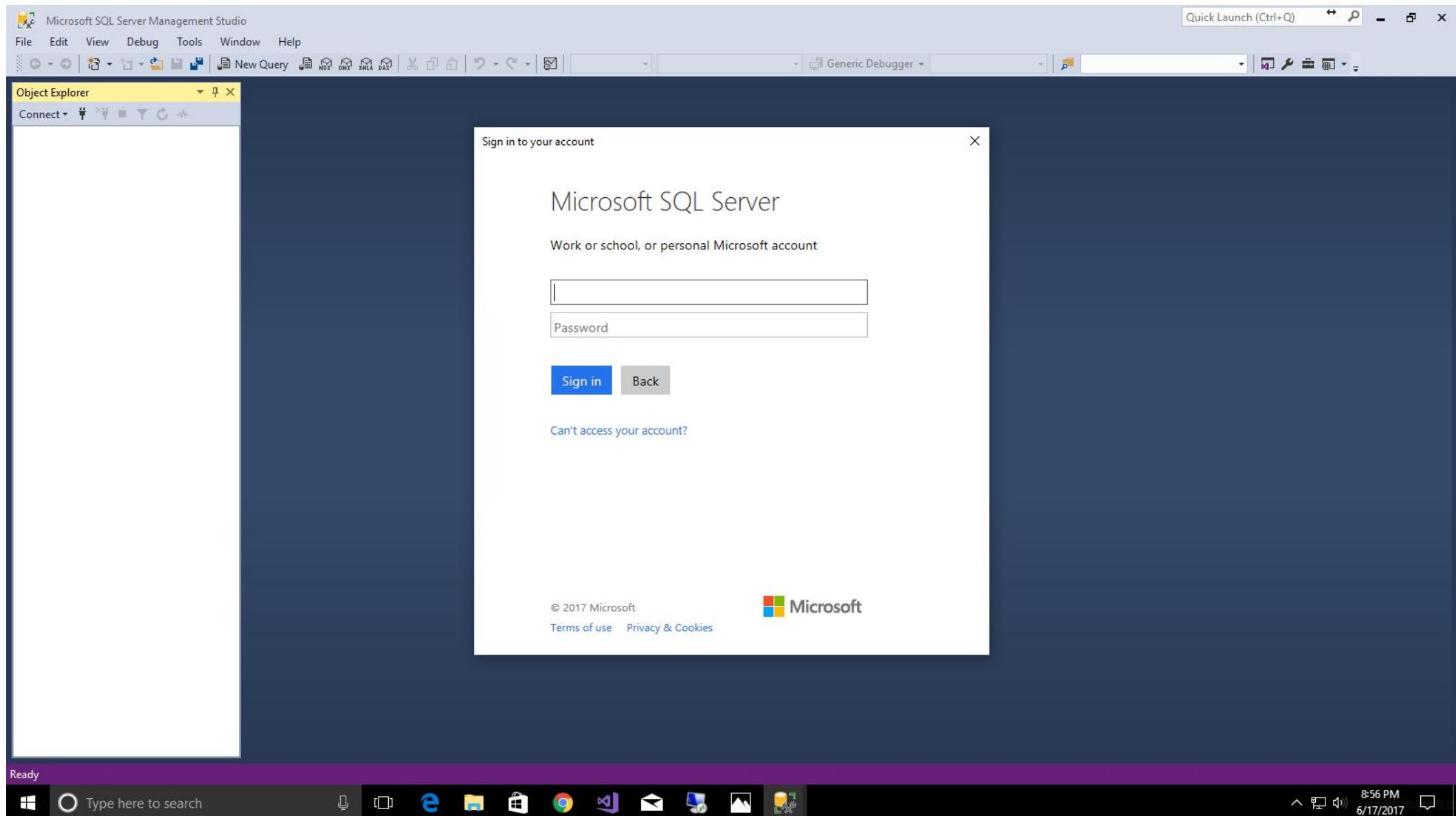
DTU CONSUMPTION P...

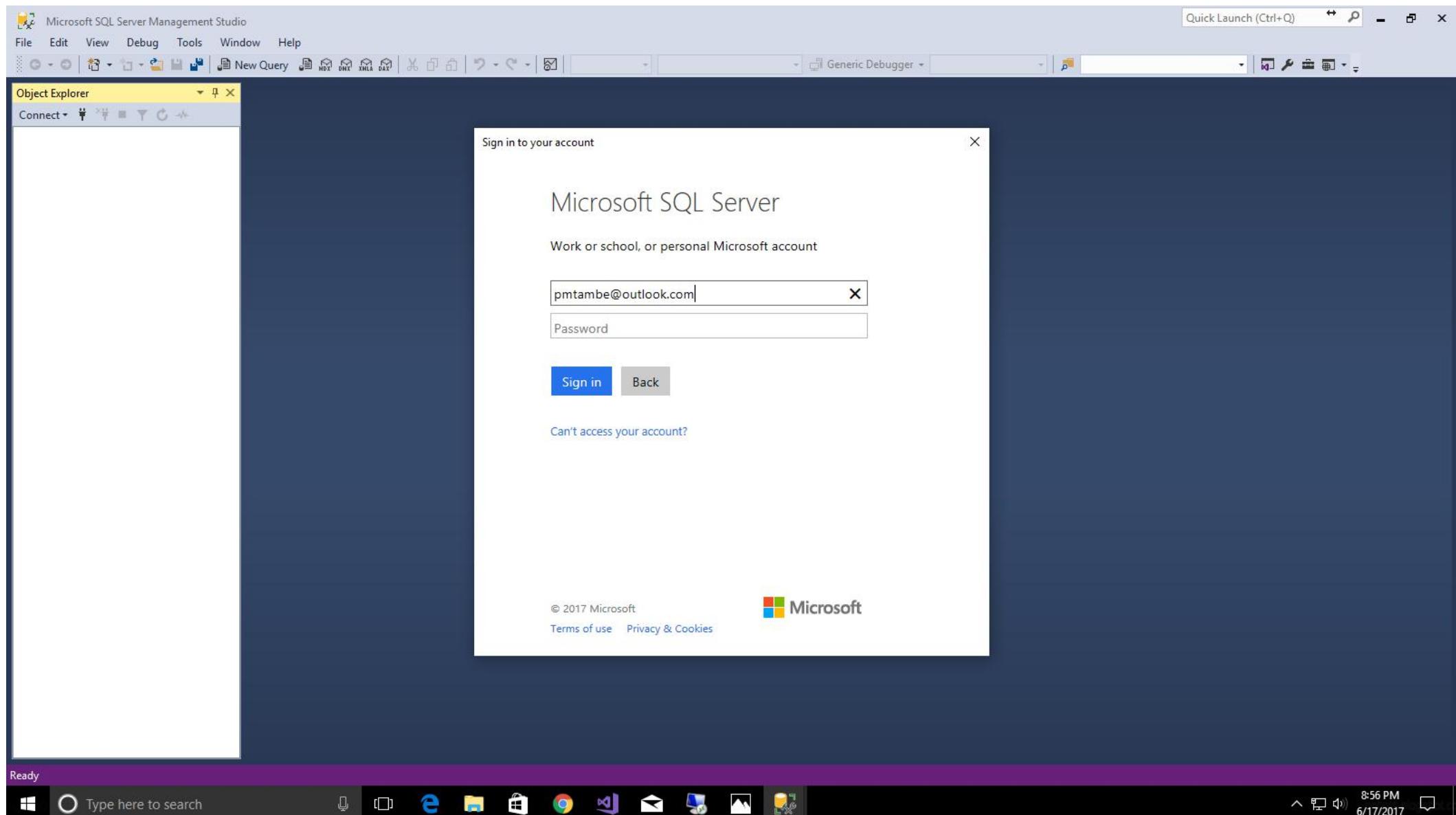


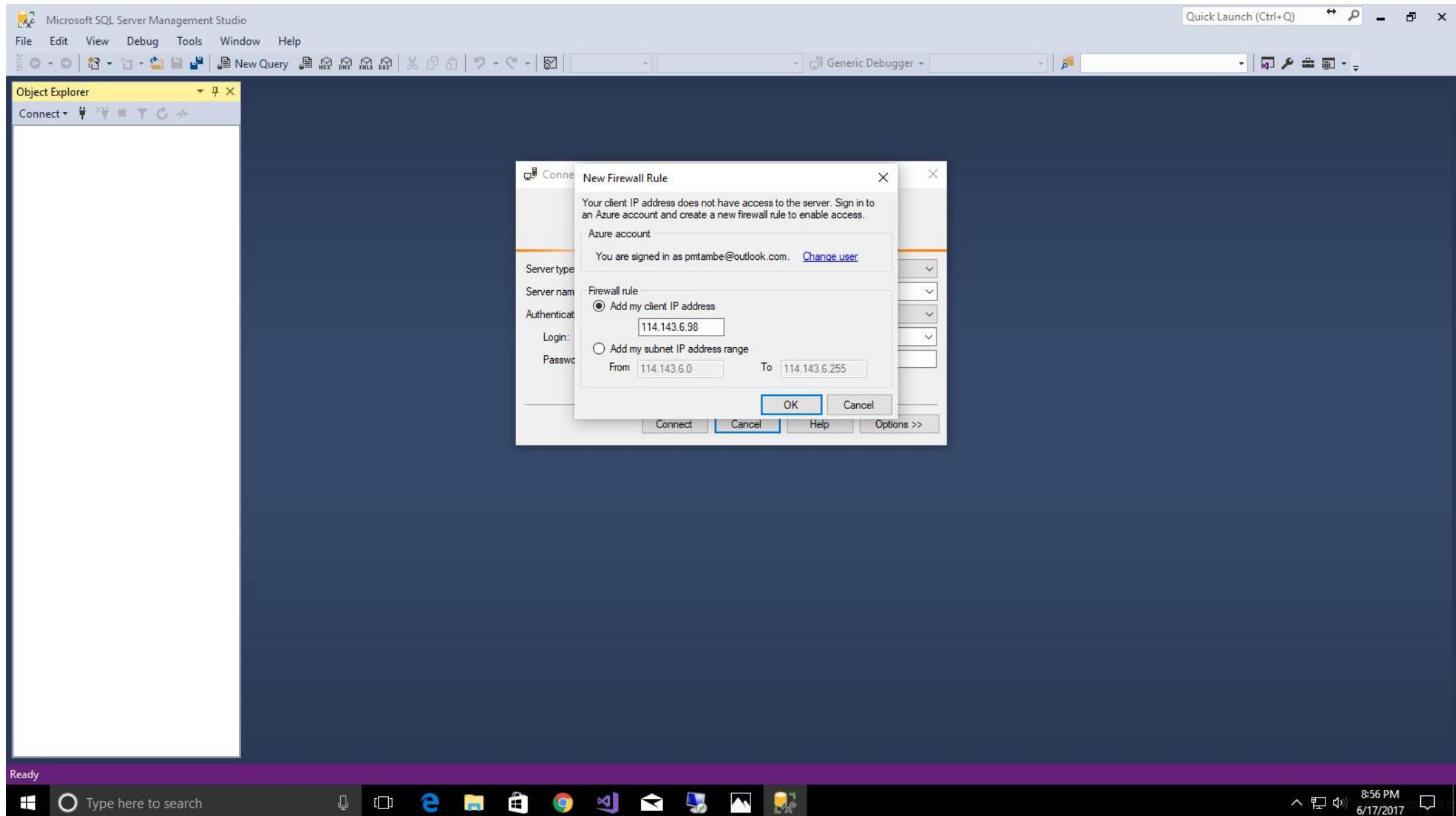


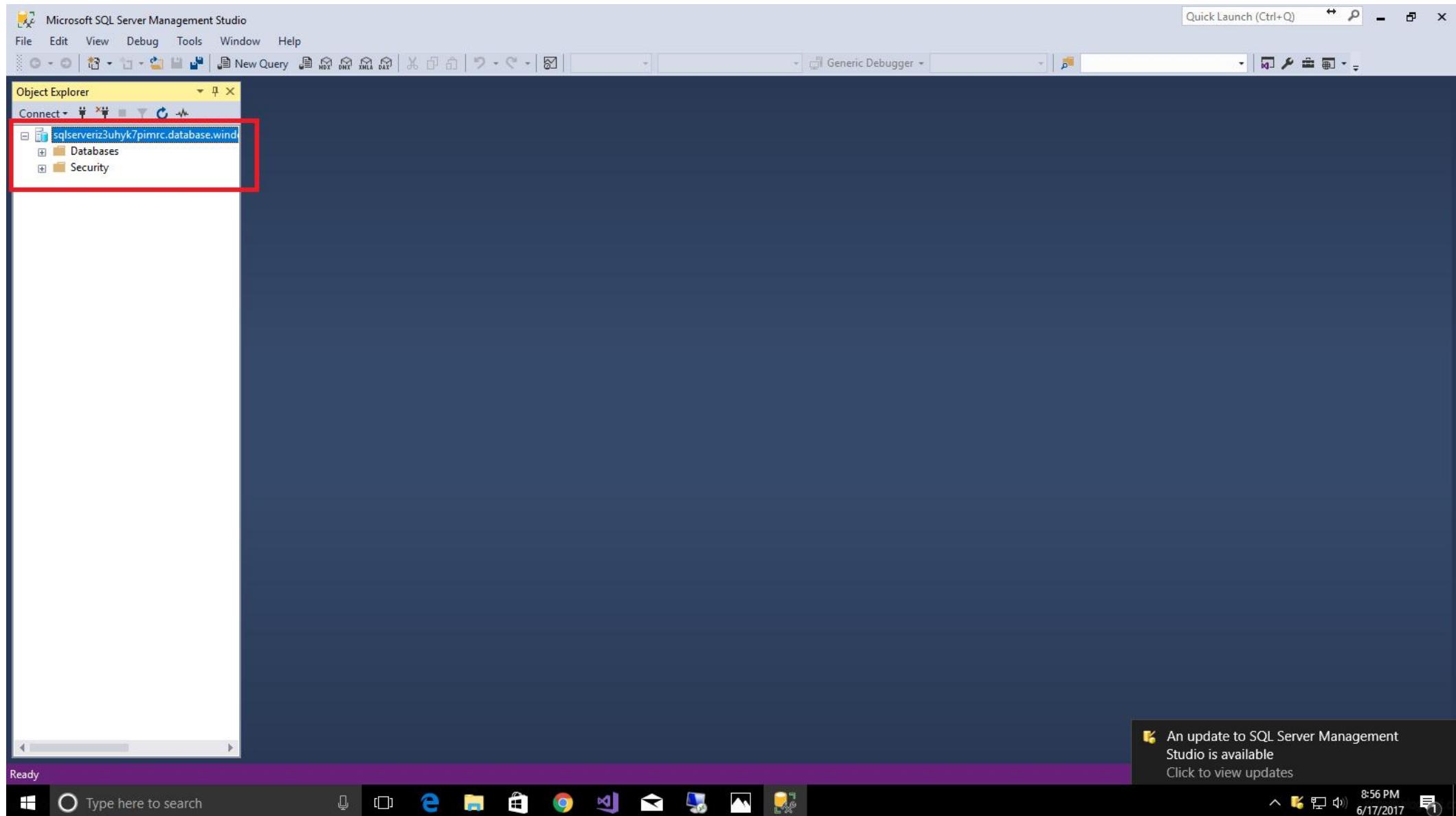


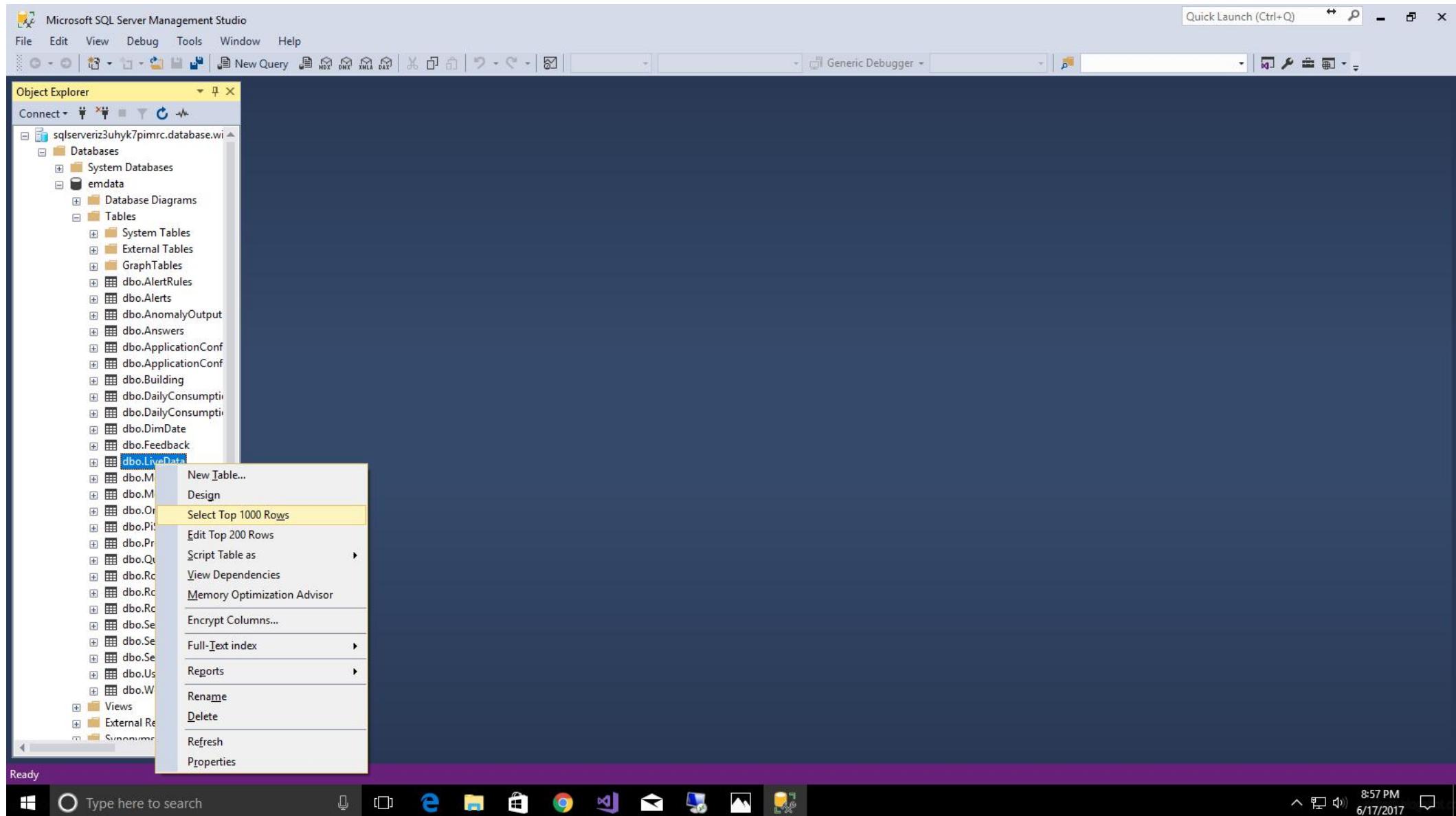












SQLQuery1.sql - sqlserveriz3uhyk7pimrc.database.windows.net.emdata (adminuser (118)) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query MDX DAX XML DAX Generic Debugger

emdata Execute Debug

**Object Explorer**

- sqlserveriz3uhyk7pimrc.database.windows.net
  - Databases
    - System Databases
    - emdata
  - Tables
    - System Tables
    - External Tables
    - GraphTables
    - dbo.AlertRules
    - dbo.Alerts
    - dbo.AnomalyOutput
    - dbo.Answers
    - dbo.ApplicationConf
    - dbo.ApplicationConf
    - dbo.Building
    - dbo.DailyConsumpti
    - dbo.DailyConsumpti
    - dbo.DimDate
    - dbo.Feedback
    - dbo.LiveData
    - dbo.MeterDetails
    - dbo.MonthlyConsum
    - dbo.Organization
    - dbo.PiServer
    - dbo.Premise
    - dbo.Questions
    - dbo.Role
    - dbo.RolePremiseLink
    - dbo.RoomDetail
    - dbo.SensorData
    - dbo.SensorLiveData
    - dbo.SensorMaster
    - dbo.User
    - dbo.WeeklyConsump
  - Views

**SQLQuery1.sql - sqlserveriz3uhyk7pimrc.database.windows.net.emdata (adminuser (118))**

```
***** Script for SelectTopNRows command from SSMS *****
SELECT TOP (1000) [Id]
,[AMPS_L1]
,[AMPS_L2]
,[AMPS_L3]
,[AMPS_SYSTEM_AVG]
,[Breaker_details]
,[Breaker_label]
,[Building]
,[ClassOccupanyRemaining]
,[ClassOccupiedValue]
,[TotalClassCapacity]
,[Daily_electric_cost]
,[Daily_KWH_System]
,[isClassOccupied]
,[KW_L1]
,[KW_L2]
,[KW_L3]
,[Monthly_electric_cost]
,[Monthly_KWH_System]
,[PowerScout]
```

**Properties**

Current connection parameters

**Aggregate Status**

Connection failure: Elapsed time: 00:00:0.949  
Finish time: 6/17/2017 8:57:27 PM  
Name: sqlserveriz3uhyk7pimrc  
Rows returned: 64  
Start time: 6/17/2017 8:57:26 PM  
State: Open

**Connection**

Connection name: sqlserveriz3uhyk7pimrc

**Connection Details**

Connection elapsed: 00:00:0.949  
Connection encrypt: Not encrypted  
Connection finish t: 6/17/2017 8:57:27 PM  
Connection rows re: 64  
Connection start ti: 6/17/2017 8:57:26 PM  
Connection state: Open  
Display name: sqlserveriz3uhyk7pimrc  
Login name: adminuser  
Server name: sqlserveriz3uhyk7pimrc  
Server version: 12.0.600  
Session Tracing ID: BDCB108E-561F-42CB-A  
SPID: 118

**Results**

	Id	AMPS_L1	AMPS_L2	AMPS_L3	AMPS_SYSTEM_AVG	Breaker_details	Breaker_label	Building	ClassOccupany
1	1	98.5719900562396	99.7428619694057	99.2668359735391	99.2668359735391	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical Rm	Science Building	0
2	2	16.0425918906361	16.2331513005497	16.1556780672644	16.1556780672644	Lunk to P3, P4	First Floor	Science Building	0
3	3	46.1825655692601	46.7311379260943	46.5081120771261	46.5081120771261	New (2018) 4th floor panel - almost empty	PP14 - 5th Fl Electrical Rm	Chemistry Building	0
4	4	123.436972183697	124.90319884545	124.307094376794	124.307094376794	Link tp P2,L3	Second Floor	Chemistry Building	0
5	5	98.7980391275219	99.9715961291031	99.4944784921506	99.4944784921506	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical Rm	Science Building	0
6	6	15.8136437499218	16.001483635279	15.9251160433288	15.9251160433288	Lunk to P3, P4	First Floor	Science Building	0
7	7	45.523118569572	46.0638577887196	45.8440165555289	45.8440165555289	New (2018) 4th floor panel - almost empty	PP14 - 5th Fl Electrical Rm	Chemistry Building	0
8	8	123.055391949174	124.517086109094	123.922824336901	123.922824336901	Link tp P2,L3	Second Floor	Chemistry Building	0
9	9	91.0834694456886	92.1653901420936	91.7255278726484	91.7255278726484	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical Rm	Science Building	0
10	10	27.2239213438879	27.5472964208202	27.4158260684237	27.4158260684237	Lunk to P3, P4	First Floor	Science Building	0
11	11	69.0417385767518	69.8618400324447	69.5284221685708	69.5284221685708	New (2018) 4th floor panel - almost empty	PP14 - 5th Fl Electrical Rm	Chemistry Building	0
12	12	126.725782207906	128.231074522452	127.619087621883	127.619087621883	Link tp P2,L3	Second Floor	Chemistry Building	0
13	13	51.4944499500317	52.1061186917912	51.8574405753701	51.8574405753701	New (2013) 3rd floor panel - almost empty	PP31 - 3rd Fl Electrical Rm	Science Building	0
14	14	62.0782156002936	62.8157031290487	62.5159131786938	62.5159131786938	Lunk to P3, P4	First Floor	Science Building	0

Query executed successfully.

sqlserveriz3uhyk7pimrc.data... | adminuser (118) | emdata | 00:00:00 | 64 rows

Ready

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Ln 1 Col 1 Ch 1 INS

8:57 PM 6/17/2017

# Prerequisites

- [VHDs for PI Server and PI BA VMs](#)
- Azure B2C tenant with users and application registered
- Power BI account and Power BI desktop app.
- Firebase notification registered application(optional)
- [ARM script](#)
- [Power BI templates](#)  
[https://emdeployment.blob.core.windows.net/releasemtr/PowerBI\\_Templates.zip](https://emdeployment.blob.core.windows.net/releasemtr/PowerBI_Templates.zip)
- [Data Processing utility](#)



What do you want to do with PowerBI\_Templates.zip (2.4 MB)?  
From: emdeployment.blob.core.windows.net

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Name	Date modified	Type	Size
PowerBI_Templates	2017-06-15 03:54:10	ZIP archive	2,612 KB
PiWebAPISimulator	2017-06-15 03:54:10	Windows Installer	863 KB
PiWebAPISimulator	2017-06-15 03:54:10	Windows Installer	863 KB
DataServiceSetup	2017-06-15 03:54:10	Windows Installer	1,247 KB
TempPICoreVM	2017-06-15 03:54:10	Virtual Desktop	1 KB
TempSQLServerVM	2017-06-15 03:54:10	Virtual Desktop	1 KB
TempWinServerVM	2017-06-15 03:54:10	Virtual Desktop	1 KB
PowerBI_Templates	2017-06-15 03:54:10	ZIP archive	2,612 KB
CSUWebApp (1)	2017-06-15 03:54:10	AC File	240 KB
PowerGrid.bacpac	2017-06-15 03:54:10	AC File	240 KB
EnergyManagement	2017-06-15 03:54:10	ZIP archive	2,612 KB
PowerBI_Templates	2017-06-15 03:54:10	ZIP archive	18,470 KB
CSUWebApp	2017-06-15 03:54:10	AC File	240 KB
power-bi-embedder	2017-06-15 03:54:10	ZIP archive	1,429 KB
powerbi-dotnet-server	2017-06-15 03:54:10	ZIP archive	83 KB
power-bi-embedder	2017-06-15 03:54:10	ZIP archive	45 KB
powerbi-angular-client	2017-06-15 03:54:10	ZIP archive	32 KB
PowerBI-Developer	2017-06-15 03:54:10	ZIP archive	549 KB
ProcessedMeterData	2017-06-15 03:54:10	Document	1 KB
Edge	2017-06-15 03:54:10	ZIP archive	69 KB
masterDeploy_With	2017-06-15 03:54:10	File	47 KB
ARM template config:			
1. Enter username for the VMs to be created (should not be admin).			

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Name	Date modified	Type
Detailed Templates	6/5/2017 10:52 PM	File folder
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Summary Templates	6/5/2017 10:52 PM	File folder

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Name Date modified Type Size

Building\_Level\_Summary\_Report\_Template\_V0.3.rar 6/5/2017 1:22 PM Microsoft Power B... 412 KB

Organization\_Level\_Summary\_Report\_Template\_V0.3.rar Premise\_Level\_Summary\_Report\_Template\_V0.3.rar

Open Edit with Notepad++ Scan with Windows Defender... Open with... Share with TortoiseGit Add to archive... Add to "Organization\_Level\_Summary\_Report\_Template\_V0.3.rar" Compress and email... Compress to "Organization\_Level\_Summary\_Report\_Template\_V0.3.rar" and email Restore previous versions Send to Cut Copy Create shortcut Delete Rename Properties

ARM template config:

1. Enter username for the VMs to be created (should not be admin).

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Organization\_Level\_Summary\_Report\_Template\_V0.3

This template will showcase consumption summary at Organization level.

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Organization\_Level\_Summary\_Report\_Template\_V0.3

This template will showcase consumption summary at Organization level.

Server: sqlserveriz3uhyk7pimrc.database.windows.net

Database: emdata

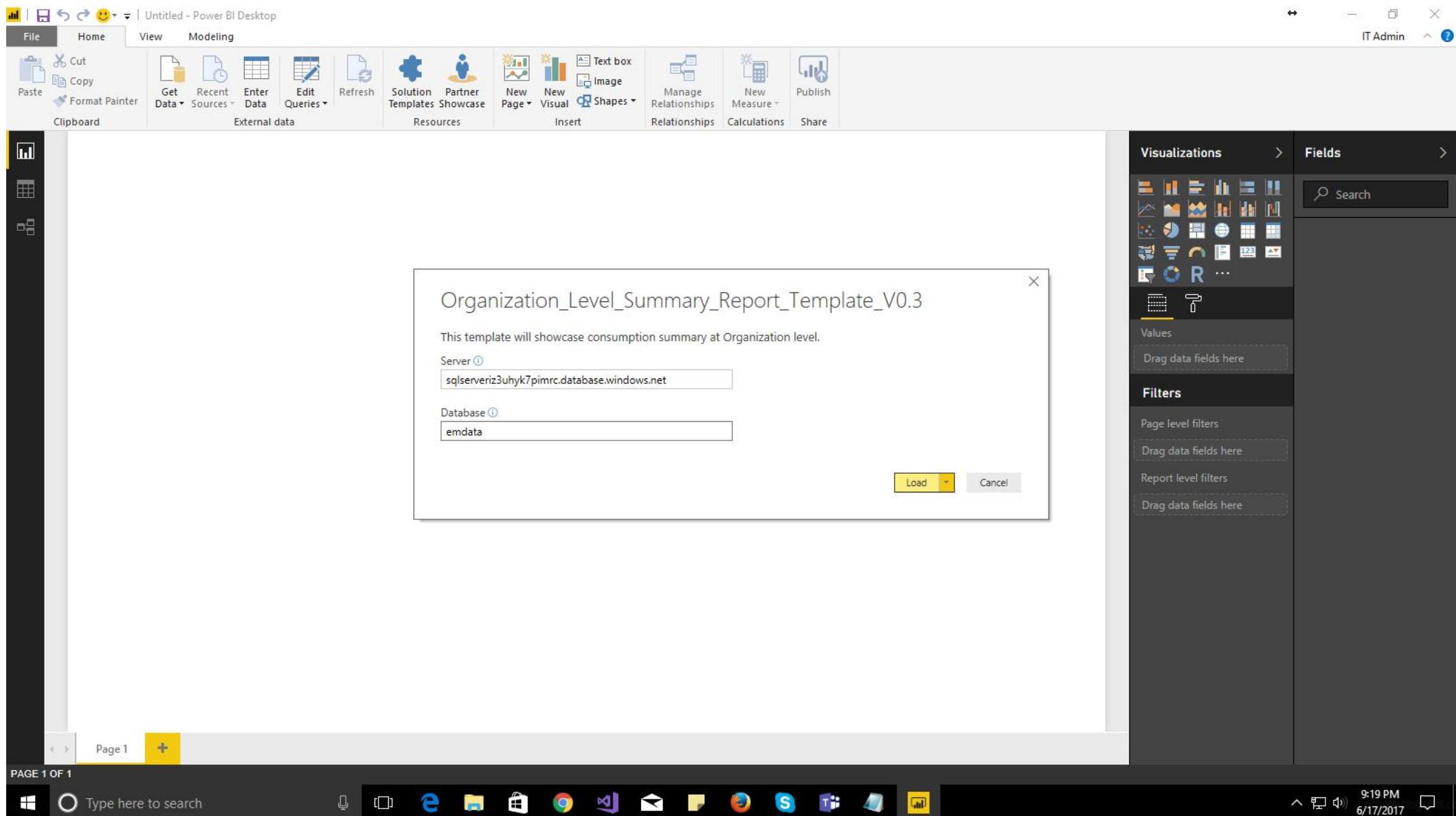
Load Cancel

Page 1 +

PAGE 1 OF 1

Type here to search

9:19 PM 6/17/2017



Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Publish

Clipboard External data Resources Insert Relationships Calculations Share

**Native Database Query**

Do you approve running this native query? Your approval will also apply to any occurrences of the same native query in other documents.

Native queries may be unsafe and alter the database. Because native queries may be rerun multiple times, those which do alter the database may result in incorrect or unpredictable behavior.

sqlserver3uhyk7pimrc.database.windows.net;emdata

```

SELECT MCD.[Id]
,MCD.[Month]
,MCD.[Year]
,MCD.[Month] + '' + MCD.[Year] AS [MonthYear]
,LEFT(REPLACE(CONVERT(DATE,MCD.[Timestamp]),'-'',''),6) AS [DateKey]
,MCD.[Timestamp]
,MONTH(MCD.[TimeStamp]) AS [MonthNumber]
,MCD.[PowerScout]
,MCD.[Breaker_details]
,MCD.[Building]
,MCD.[Monthly_KWH_System] AS [Consumption]
,MCD.[Monthly_electric_cost] AS [Cost]

```

+ Run Cancel

Visualizations > Fields >

Search

- Building
- DailyConsumption...
- DailyConsumptionP...
- DimDate
- LiveData
- MeterDetails
- MonthlyConsumpti...
- Organization
- Premise

Values

Drag data fields here

Filters

Page level filters

Report level filters

Learn more about native database queries

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:19 PM 6/17/2017

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File Home View Modeling

Paste Cut Copy Format Painter Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Publish

Clipboard External data Resources Insert Relationships Calculations Share

**Organizational Level Detailed Report**

Native Database Query

Do you approve running this native query? Your approval will also apply to any occurrences of the same native query in other documents.

Native queries may be unsafe and alter the database. Because native queries may be rerun multiple times, those which do alter the database may result in incorrect or unpredictable behavior.

sqlserveriz3uhyk7pimrc.database.windows.net;emdata

```
SELECT [Breaker_Details]
      ,[CONVERT(VARCHAR(200),[Building])].[Building]
      ,[ClassOccupiedValue]
      ,[PowerScout]
      ,[Daily_Electric_Cost].[Cost]
      ,[Daily_kwh_system].[Consumption]
      ,[Temperature]
      ,[Timestamp]
      ,[days]
      ,[time_period]
      ,[CONVERT(VARCHAR(10),CONVERT(DATE,[TimeStamp]))] AS [ReportingDate]
    FROM [dbo].[tbl_MeterData]
    WHERE [Device] = 'Mandau'
```

Learn more about native database queries

**Run** **Cancel**

Visualizations > Fields >

Search

- Building
- DailyConsumption...
- DailyConsumptionP...
- DimDate
- LiveData
- MeterDetails
- MonthlyConsumpti...
- Organization
- Premise

Values

Drag data fields here

Filters

Page level filters

Report level filters

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:19 PM 6/17/2017

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish

Clipboard External data Resources Insert Relationships Calculations Share

**Organizational Level Detailed Report**

Native Database Query

SQL Server database

sqlserveriz3uhyk7pimrc.database.windows.net;emd...

Use your Windows credentials to access this database.

Use my current credentials  
 Use alternate credentials

User name:   
 Password:

Select which level to apply these settings to:  
 sqlserveriz3uhyk7pimrc.database.windows.net

Connect Cancel Run Cancel

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here Report level filters Drag data fields here

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:20 PM 6/17/2017

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish Share

Clipboard External data Resources Insert Relationships Calculations Share

**There are pending changes in your queries that haven't been applied.** Apply changes

Native Database Query

SQL Server database

User name: adminuser

Password: [REDACTED]

Select which level to apply these settings to: sqlserveriz3uhyk7pimrc.database.windows.net

Connect Run Cancel

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here Report level filters Drag data fields here

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:20 PM 6/17/2017

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File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Publish

Clipboard External data Resources Insert Relationships Calculations Share

**Organizational Level Detailed Report**

Native Database Query

Do you approve running this native query? Your approval will also apply to any occurrences of the same native query in other documents.

Native queries may be unsafe and alter the database. Because native queries may be rerun multiple times, those which do alter the database may result in incorrect or unpredictable behavior.

sqlserveriz3uhyk7pimrc.database.windows.net;emdata

```
SELECT [Breaker_Details]
      ,[CONVERT(VARCHAR(200),[Building])].[Building]
      ,[ClassOccupiedValue]
      ,[PowerScout]
      ,[Daily_Electric_Cost].[Cost]
      ,[Daily_kwh_system].[Consumption]
      ,[Temperature]
      ,[Timestamp]
      ,[days]
      ,[time_period]
      ,[CONVERT(VARCHAR(10),CONVERT(DATE,[TimeStamp]))] AS [ReportingDate]
    FROM [dbo].[tbl_MeterData]
    WHERE [tbl_MeterData].[Mandate]
```

Learn more about native database queries

Run Cancel

Visualizations > Fields >

Search

- Building
- DailyConsumption...
- DailyConsumptionP...
- DimDate
- LiveData
- MeterDetails
- MonthlyConsumpti...
- Organization
- Premise

Values

Drag data fields here

Filters

Page level filters

Report level filters

Drag data fields here

PAGE 1 OF 2

Summary Day & Time Summary +

DirectQuery: Enabled (click to change)

9:20 PM 6/17/2017

Type here to search

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish

Clipboard External data Resources Insert Relationships Calculations Share

**Organization level: Detailed Report**

Electric Cost till date Total Consumption till date (in kWh) Energy consumption and cost over months (Drill for more...)

5.54K

Cost for this month Consumption for this month

Projected Consumption for this month (in kWh)

Projected cost for this month

0.00

SQL Server database

sqlserveriz3uhyk7pimrc.database.windows.net;emd...

Windows Database

Use your Windows credentials to access this database.

Use my current credentials  
 Use alternate credentials

User name: \_\_\_\_\_  
 Password: \_\_\_\_\_

Select which level to apply these settings to:  
 sqlserveriz3uhyk7pimrc.database.windows.net

Connect Cancel

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here Report level filters Drag data fields here

PAGE 1 OF 2

Summary Day & Time Summary +

DirectQuery: Enabled (click to change)

9:20 PM 6/17/2017

Type here to search

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish

Clipboard External data Resources Insert Relationships Calculations Share

**Organization level: Detailed Report**

Electric Cost till date \$224.06 Total Consumption till date (in kWh) 5.54K Energy consumption and cost over months (Drill for more...)

Cost for this month (Blank) Consumption for this month (Blank)

Projected Consumption for this month (in KWh) OOPS !! No Data Found

Projected cost for this month 0.00 + (Blank)

Prediction results will be up next month

SQL Server database  
sqlserveriz3uhyk7pimrc.database.windows.net;emd...  
User name: adminuser  
Password:   
Select which level to apply these settings to: sqlserveriz3uhyk7pimrc.database.windows.net  
Connect Cancel

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters Page level filters Drag data fields here Report level filters Drag data fields here

PAGE 1 OF 2 Summary Day & Time Summary +

DirectQuery: Enabled (click to change)

9:21 PM 6/17/2017

Type here to search

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Publish

Clipboard External data Resources Insert Relationships Calculations Share

**Organization level: Detailed Report**

Electric Cost till date Total Consumption till date (in KWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)

(Blank) (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...)

Refresh

- DailyConsumptionPrediction Evaluating...
- MeterDetails Evaluating...
- DailyConsumptionDetails Evaluating...
- LiveData Waiting for other queries...
- MonthlyConsumptionDetails Waiting for other queries...

Cancel

0.00

Prediction results will be up next month

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here Report level filters Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:21 PM 6/17/2017

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish Clipboard External data Resources Relationships Calculations Share

IT Admin ?

**Organization level: Detailed Report**

Electric Cost till date Total Consumption till date (in KWh)  
\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)  
(Blank) (Blank)

Projected Consumption for this month (in KWh)  
**OOPS !! No Data Found :(**

Projected cost for this month  
**OOPS !! No Data Found :(**

Energy consumption and cost over months (Drill for more...)

Consumption of this month VS Predicted consumption

0.00

Prediction results will be up next month

Visualizations > Fields >

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values

Drag data fields here

Filters

Page level filters

Drag data fields here

Report level filters

Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:22 PM 6/17/2017

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Calculations Share Publish

**Organization level: Detailed Report**

Electric Cost till date Total Consumption till date (in KWh)  
\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)  
(Blank) (Blank)

Projected Consumption for this month (in KWh)  
**OOPS !! No Data Found :(**

Projected cost for this month  
**OOPS !! No Data Found :(**

Energy consumption and cost over months ( Drill for more... )

Publish this report to Power BI on the web.

Visualizations Fields

Values Drag data fields here

Filters

Page level filters Drag data fields here

Report level filters Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

Untitled - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships Relationships New Measure Calculations Publish Share

There are pending changes in your queries that haven't been applied. Apply changes

### Organization level: Detailed Report

Electric Cost till date Total Consumption till date (in KWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)

(Blank) (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...)

Microsoft Power BI Desktop

Do you want to save your changes?

Save Cancel

CONSUMPTION OF THIS MONTH VS PREDICTED CONSUMPTION

0.00

Prediction results will be up next month

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here

Report level filters Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:22 PM 6/17/2017

Untitled - Power BI Desktop

File Home View Modeling IT Admin ?

Cut Copy Format Painter Clipboard

Save As This PC Desktop Search Desktop

Downloads Documents Pictures Screenshots Asset SQL Server VM Temp Temp PI OneDrive This PC Desktop

Name Date modified Type Size

ARM Deployment Screens 5/17/2017 2:48 PM File folder  
 ARM Templates 6/13/2017 2:36 PM File folder  
 Asset 6/12/2017 4:24 PM File folder  
 CSU Web App 6/16/2017 5:55 PM File folder  
 DataService 6/1/2017 11:59 AM File folder  
 EM Release Material 6/16/2017 3:26 PM File folder  
 Energy Management bacpac 6/16/2017 5:32 PM File folder  
 REST Server 6/14/2017 4:35 PM File folder  
 Temp Web App(with Bower) 5/24/2017 9:44 AM File folder  
 TempDaveyPublish 5/17/2017 2:48 PM File folder  
 TP 5/29/2017 4:47 PM File folder

File name: EDMDemoDeploy Save as type: Power BI file (\*.pbix)

Save Cancel

**OOPS !! No Data Found :(**

Projected cost for this month

**OOPS !! No Data Found :(**

0.00

(Blank)

Prediction results will be up next month

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here Report level filters Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search 9:23 PM 6/17/2017

EMDemoDeploy - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish Clipboard External data Resources Relationships Calculations Share

There are pending changes in your queries that haven't been applied. Apply changes

### Organization level: Detailed Report

Electric Cost till date Total Consumption till date (in KWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)

(Blank) (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...) Enter your Power BI credentials here!

Power BI Desktop

Work or school account

Sign in Need a Power BI account?

0.00

Prediction results will be up next month

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters Page level filters Drag data fields here Report level filters Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:25 PM 6/17/2017

EMDemoDeploy - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish Clipboard External data Resources Relationships Calculations Share

There are pending changes in your queries that haven't been applied. Apply changes

### Organization level: Detailed Report

Electric Cost till date Total Consumption till date (in KWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)

(Blank) (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...)

Power BI Desktop

Work or school account

itadmin@admindomain.onmicrosoft.com

Sign in Need a Power BI account?

0.00

Prediction results will be up next month

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters Page level filters Drag data fields here Report level filters Drag data fields here

PAGE 1 OF 2 Summary Day & Time Summary +

DirectQuery: Enabled (click to change)

9:26 PM 6/17/2017

EMDemoDeploy - Power BI Desktop

**File Home View Modeling**

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcases New New Text box Image Manage Relationships Measures New Publish

Clipboard External data Resources Sign in to your account

**Organ**

Electric Cost till date Total Consumption till date (in KWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in KW)

(Blank) (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

There are pending changes in your queries that haven't been applied.

Power BI Desktop

Work or school account

itadmin@admindomain.on...

Sign in Back

Can't access your account?

© 2017 Microsoft Microsoft

Prediction results will be up next month

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters Page level filters Drag data fields here Report level filters Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:26 PM 6/17/2017

EMDemoDeploy - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish Relationships Calculations Share

There are pending changes in your queries that haven't been applied. Apply changes

### Organization level: Detailed Report

Electric Cost till date Total Consumption till date (in kWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in kWh)

(Blank) (Blank)

Projected Consumption for this month (in kWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...)

Publish to Power BI

Select your Workspace

Select a destination

My workspace

- DemoAppPowerBI
- DemoWorkspace
- Stream Workspace

Select Cancel

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here

Report level filters Drag data fields here

PAGE 1 OF 2 Summary Day & Time Summary +

DirectQuery: Enabled (click to change)

9:27 PM 6/17/2017

EMDemoDeploy - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish Relationships Calculations Share

There are pending changes in your queries that haven't been applied. Apply changes

### Organization level: Detailed Report

Electric Cost till date Total Consumption till date (in KWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)

(Blank) (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...)

Publishing to Power BI

Publishing 'EMDemoDeploy.pbix' to Power BI

Go to the "view" tab, select "phone reports" to tailor a portrait view of your existing report for mobile viewers. [Learn more](#)

Cancel

0.00

Prediction results will be up next month

Visualizations Fields

Search

- Building
- DailyConsumption...
- DailyConsumptionP...
- DimDate
- LiveData
- MeterDetails
- MonthlyConsumpti...
- Organization
- Premise

Values

Drag data fields here

Filters

Page level filters

Drag data fields here

Report level filters

Drag data fields here

PAGE 1 OF 2

Summary Day & Time Summary +

DirectQuery: Enabled (click to change)

9:28 PM 6/17/2017

Type here to search

EMDemoDeploy - Power BI Desktop

File Home View Modeling

Cut Copy Format Painter Paste Get Data Recent Sources Enter Data Refresh Solution Templates Partner Showcase New Page New Visual Text box Insert Manage Relationships New Measure Shapes Image Publish Clipboard External data Resources Relationships Calculations Share

IT Admin ?

**Organization level: Detailed Report**

Electric Cost till date Total Consumption till date (in KWh)

\$224.06 5.54K

Cost for this month Consumption for this month (in KWh)

(Blank) (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...)

Publishing to Power BI

Publishing succeeded, but Power BI needs credentials for the data source. To provide credentials, please click the link below.

[Open 'EMDemoDeploy.pbix' in Power BI](#)

Go to the "view" tab, select "phone reports" to tailor a portrait view of your existing report for mobile viewers. [Learn more](#)

Got it

0.00

Prediction results will be up next month

Visualizations Fields

Search

Building DailyConsumption... DailyConsumptionP... DimDate LiveData MeterDetails MonthlyConsumpti... Organization Premise

Values Drag data fields here

Filters

Page level filters Drag data fields here

Report level filters Drag data fields here

Summary Day & Time Summary +

PAGE 1 OF 2 DirectQuery: Enabled (click to change)

Type here to search

9:29 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/reports/e22935f0-2185-44cf-b22b-236bf2ab18a9/ReportSection2

Power BI DemoWorkspace > EMDemoDeploy

We need your credentials to access the data source [Enter credentials](#)

Favorites >

Recent >

Apps

Shared with me

Workspaces >

DemoWorkspace >

Get Data

File View Edit report Explore Refresh Pin Live Page

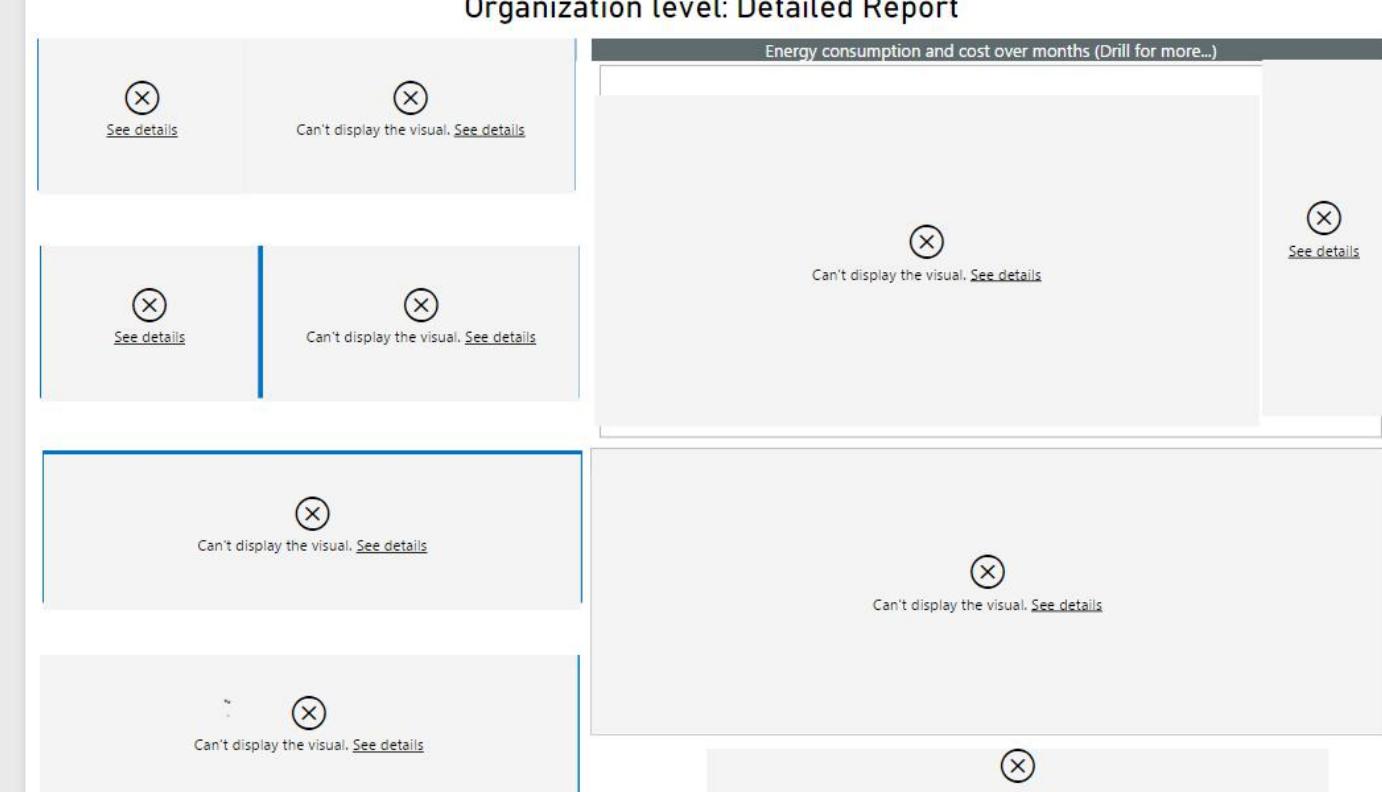
Usage metrics View related Subscribe ...

Organization level: Detailed Report

Energy consumption and cost over months (Drill for more...)

Can't display the visual. See details

Filters



The screenshot shows a Power BI report titled "Organization level: Detailed Report". The main content area displays several visual elements, each accompanied by a red 'X' icon and the message "Can't display the visual. See details". A red box highlights the "Enter credentials" link at the top of the page. The left sidebar lists various workspace options, and the bottom navigation bar includes standard Windows icons like Start, Task View, Edge, File Explorer, and others.

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Favorites >

Recent >

Apps

Shared with me

Workspaces >

DemoWorkspace

Datasets Workbooks Alerts Subscriptions

### Settings for EMDemoDeploy

This dataset has been configured by [itadmin@admindomain.onmicrosoft.com](mailto:itadmin@admindomain.onmicrosoft.com).

[Refresh history](#)

**Data source credentials**

Your data source can't be queried because the credentials are not provided. Please provide your credentials and try again.

SqlServer [Edit credentials](#)

**Scheduled cache refresh**

There is a direct connection between Power BI and the database. When you interact with a visualization, queries are sent from Power BI directly to the database. To enhance performance, dashboards tiles are cached and periodically refreshed. Change the frequency here. (You can always manually refresh a tile any time by using the option on the More menu of the tile.)

[Learn more about Direct Query refresh frequency](#)

Refresh frequency

1 hour

Apply Discard

Get Data

https://app.powerbi.com

Type here to search

9:31 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Datasets

General Dashboards Workbooks Alerts Subscriptions

### Settings for EMDemoDeploy

#### Configure EMDemoDeploy

Server: sqlserveriz3uhyk7pimrc.database.windows.net

Database: emdata

Authentication method: Basic

User name:

Password:

Sign in Cancel

Apply Discard

It provided. Please provide your credentials and try again.

When you interact with a visualization, queries are sent from Power BI to the server and periodically refreshed. Change the frequency here. (You can change it in the menu of the tile.)

Get Data

Type here to search

9:31 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Datasets

General Dashboards Workbooks Alerts Subscriptions

### Settings for EMDemoDeploy

Configure EMDemoDeploy

Server: sqlserveriz3uhyk7pimrc.database.windows.net

Database: emdata

Authentication method: Basic

User name: adminuser

Password: [REDACTED]

Sign in Cancel

Apply Discard

It provided. Please provide your credentials and try again.

Interact with a visualization, queries are sent from Power BI and periodically refreshed. Change the frequency here. (You menu of the tile.)

Get Data

Type here to search

9:31 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Datasets

General Dashboards Workbooks Alerts Subscriptions

### Settings for EMDemoDeploy

#### Configure EMDemoDeploy

Server: sqlserveriz3uhyk7pimrc.database.windows.net

Database: emdata

Authentication method: Basic

User name: adminuser

Password: [REDACTED]

Sign in Cancel

Apply Discard

Get Data

Type here to search

9:31 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Favorites >  
Recent >  
Apps  
Shared with me  
Workspaces >  
**DemoWorkspace**

General Dashboards Datasets Workbooks Alerts Subscriptions

Settings for EDMDemoDeploy

This dataset has been configured by [itadmin@admindomain.onmicrosoft.com](mailto:itadmin@admindomain.onmicrosoft.com).

[Refresh history](#)

▲ Data source credentials  
SqlServer [Edit credentials](#)

▲ Scheduled cache refresh

There is a direct connection between Power BI and the database. When you interact with a visualization, queries are sent from Power BI directly to the database. To enhance performance, dashboards tiles are cached and periodically refreshed. Change the frequency here. (You can always manually refresh a tile any time by using the option on the More menu of the tile.)

[Learn more about Direct Query refresh frequency](#)

Refresh frequency  
1 hour ▾

**Apply** Discard

ShettyShetty - X ABP

Type here to search

9:31 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Favorites >

Recent >

Apps

Shared with me

Workspaces >

DemoWorkspace

Datasets Workbooks Alerts Subscriptions

### Settings for EMDemoDeploy

This dataset has been configured by [itadmin@admindomain.onmicrosoft.com](mailto:itadmin@admindomain.onmicrosoft.com).

[Refresh history](#)

▲ Data source credentials

SqlServer [Edit credentials](#)

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[Learn more about Direct Query refresh frequency](#)

Refresh frequency

15 minutes

15 minutes

30 minutes  
1 hour  
2 hours  
3 hours  
Daily  
Weekly

9:31 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Favorites >

Recent >

Apps

Shared with me

Workspaces >

DemoWorkspace

Datasets Workbooks Alerts Subscriptions

### Settings for EMDemoDeploy

This dataset has been configured by [itadmin@admindomain.onmicrosoft.com](mailto:itadmin@admindomain.onmicrosoft.com).

[Refresh history](#)

▲ Data source credentials

SqlServer [Edit credentials](#)

▲ Scheduled cache refresh

There is a direct connection between Power BI and the database. When you interact with a visualization, queries are sent from Power BI directly to the database. To enhance performance, dashboards tiles are cached and periodically refreshed. Change the frequency here. (You can always manually refresh a tile any time by using the option on the More menu of the tile.)

[Learn more about Direct Query refresh frequency](#)

Refresh frequency

15 minutes

**Apply** **Discard**

Get Data

Type here to search

9:32 PM 6/17/2017

Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/settings/datasets/df1b1861-3cbf-4132-a448-8b369ba9b131

## Power BI Settings

Favorites >  
Recent >  
Apps  
Shared with me  
Workspaces >  
**DemoWorkspace**    
**EMDemoDeploy**  

DASHBOARDS  
CSU Demo

REPORTS  
Demo\_Building\_Level\_Report  
Demo\_University\_Level\_Report  
Demo\_University\_Monthly Consumption Reports  
**EMDemoDeploy**  

WORKBOOKS  
You have no workbooks +

DATASETS  
Demo\_Building\_Level\_Report  
Demo\_University\_Level\_Report  
Demo\_University\_Monthly Consumption Reports  
**EMDemoDeploy**

General Datasets Workbooks Alerts Subscriptions

### Settings for EMDemoDeploy

This dataset has been configured by [itadmin@admindomain.onmicrosoft.com](mailto:itadmin@admindomain.onmicrosoft.com).

Next refresh: Sat Jun 17 2017 21:47:06 GMT+0530 (India Standard Time)

[Refresh history](#)

▲ Data source credentials  
SqlServer [Edit credentials](#)

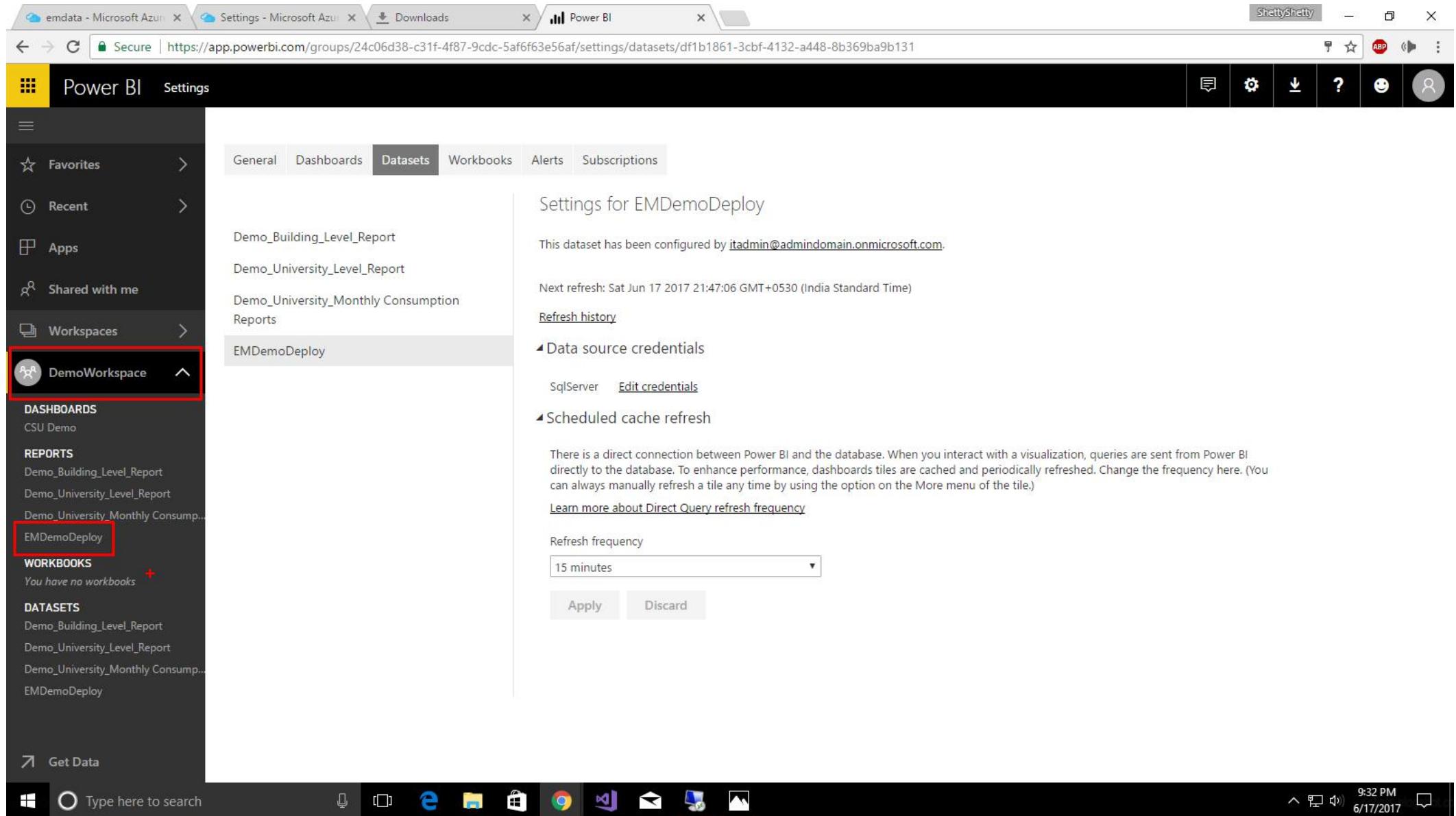
▲ Scheduled cache refresh

There is a direct connection between Power BI and the database. When you interact with a visualization, queries are sent from Power BI directly to the database. To enhance performance, dashboard tiles are cached and periodically refreshed. Change the frequency here. (You can always manually refresh a tile any time by using the option on the More menu of the tile.)

[Learn more about Direct Query refresh frequency](#)

Refresh frequency  
15 minutes ▾

Apply Discard



Secure | https://app.powerbi.com/groups/24c06d38-c31f-4f87-9cdc-5af6f63e56af/reports/e22935f0-2185-44cf-b22b-236bf2ab18a9/ReportSection2

# Note down the report Id for further use<sup>+</sup>

## Organization level: Detailed Report

Electric Cost till date      Total Consumption till date (in KWh)

\$128.05      3.12K

Cost for this month      Consumption for this month (in KWh)

(Blank)      (Blank)

Projected Consumption for this month (in KWh)

OOPS !! No Data Found :(

Projected cost for this month

OOPS !! No Data Found :(

Energy consumption and cost over months (Drill for more...)

Consumption of this month VS Predicted consumption

0.00

Prediction results will be up next month

Filters

File View Edit report Explore Refresh Pin Live Page Usage metrics View related Subscribe ...

Favorites Recent Apps Shared with me Workspaces DemoWorkspace CSU Demo Demo\_Building\_Level\_Report Demo\_University\_Level\_Report Demo\_University\_Monthly\_Consum... EMDemoDeploy ...

REPORTS

DASHBOARDS

WORKBOOKS

DATASETS

Get Data

Summary Day & Time Summary

Type here to search

9:32 PM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azur   Downloads   EMDemoDeploy - Power

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Web/sites/emwebdemodeploy123/appServices

Microsoft Azure Resource groups > DeployDemo > emwebdemodeploy123

Search resources

**DeployDemo** Resource group

Add Columns Delete Refresh Move

Essentials

Subscription name (change) CSU Pilot Deployments 2 Succeeded

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Filter by name... All types All locations No grouping

33 items

NAME	TYPE	LOCATION
AppServPlan	App Service plan	West Central US
deploydemo123.onmicrosoft.com	B2C Tenant	unitedstates
emrestdemodeploy123	App Service	West Central US
<b>emwebdemodeploy123</b>	App Service	West Central US
iz3uhyk7pimrcpivm	Storage account	West Central US
iz3uhyk7pimrcsqlvm	Storage account	West Central US
iz3uhyk7pimrcwinvm	Storage account	West Central US
mlstrizuhyk7pimrc	Storage account	West Central US
mydemodeploy	Machine Learning workspace	West Central US
mydemodeployPlan	Machine Learning web servic...	West Central US
myjobiz3uhyk7pimrc	Scheduler Job Collection	West Central US

Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Quickstart Deployment credentials Deployment slots Deployment options Continuous Delivery (Preview)

Application settings Authentication / Authorization

Skype

ajit bhosale is online

Anagha Bharadwaj is online

9:34 PM 6/17/2017

Dashboard - Microsoft A   Settings - Microsoft Azur   Downloads   EM Demo Deploy - Power   ShettyShetty

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/DeployDemo/providers/Microsoft.Web/sites/emwebdemodeploy123/appServices

Microsoft Azure Resource groups > DeployDemo > emwebdemodeploy123

emwebdemodeploy123 App Service

Search resources

New

Dashboard

All resources

Resource groups

App Services

SQL databases

SQL data warehouses

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directo...

Monitor

Security Center

Billing

Help + support

More services >

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

DEPLOYMENT

Quickstart

Deployment credentials

Deployment slots

Deployment options

Continuous Delivery (Preview)

SETTINGS

Application settings

Authentication / Authorization

Backups

Custom domains

HTTP 5xx

Data In

Data Out

URL  
http://emwebdemodeploy123.azurewebsites.net

App Service plan/pricing tier  
AppServPlan (Standard: 1 Small)

FTP/deployment username  
emwebdemodeploy123\surabhshah

FTP hostname  
ftp://waws-prod-cy4-001.ftp.azurewebsites.windows.net

FTPS hostname  
ftps://waws-prod-cy4-001.ftp.azurewebsites.windows.net

HTTP SERVER ERRORS

DATA IN

Skype

ajit bhosale is online

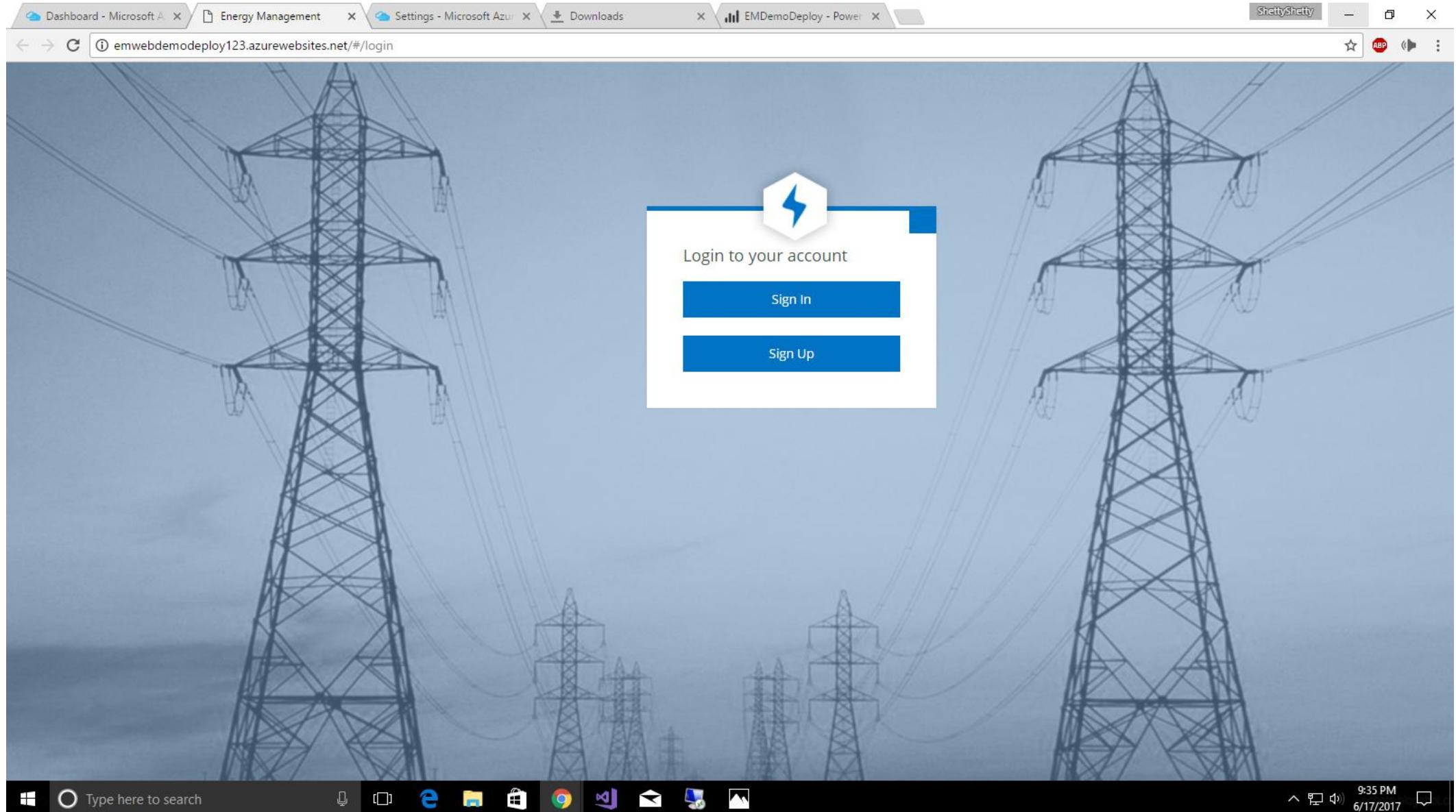
Anagha Bharadwaj is online

Type here to search

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Dashboard - Microsoft A Energy Management Settings - Microsoft Azure Downloads EMDemoDeploy - Power ShettyShetty

emwebdemodeploy123.azurewebsites.net/#/login



Login to your account

Sign In

Sign Up

Type here to search

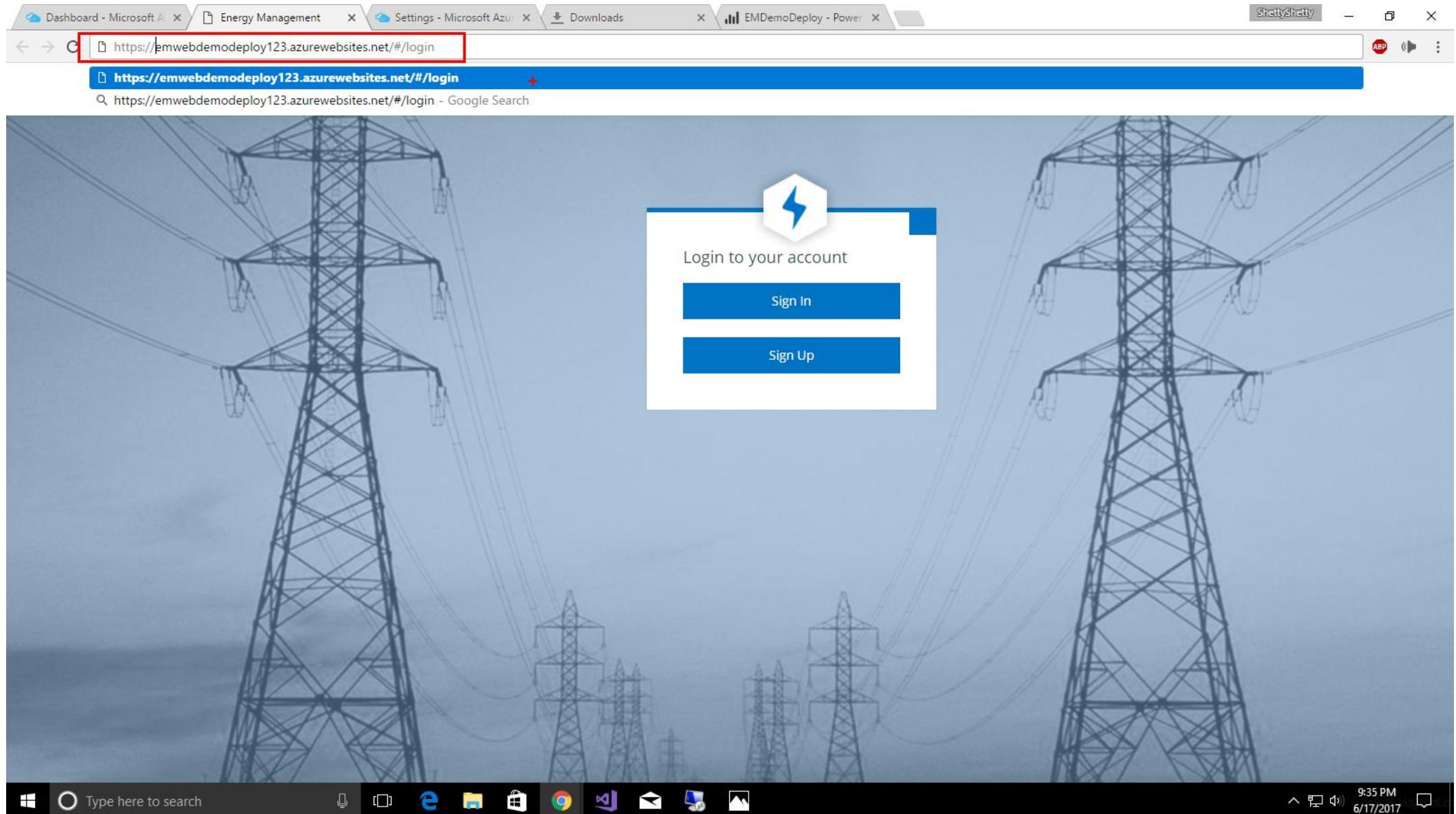
9:35 PM 6/17/2017

Dashboard - Microsoft A Energy Management Settings - Microsoft Azure Downloads EMDemoDeploy - Power ShettyShetty

https://emwebdemodeploy123.azurewebsites.net/#/login

https://emwebdemodeploy123.azurewebsites.net/#/login

https://emwebdemodeploy123.azurewebsites.net/#/login - Google Search



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Dashboard - Microsoft A Energy Management Properties - Microsoft Az Downloads EMDemoDeploy - Power ShettyShetty

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_B2CAdmin/TenantManagementBlade

Microsoft Azure AZURE AD B2C SETTINGS > Settings > Applications > deploydemo - Properties

Search resources

deploydemo - Properties

Save Discard Delete

\* Name

Application ID

Web App / Web API

Include web app / web API  Yes  No

Allow implicit flow  Yes  No

Redirect URLs must all belong to the same domain

Reply URL

App ID URI (optional)

Native client

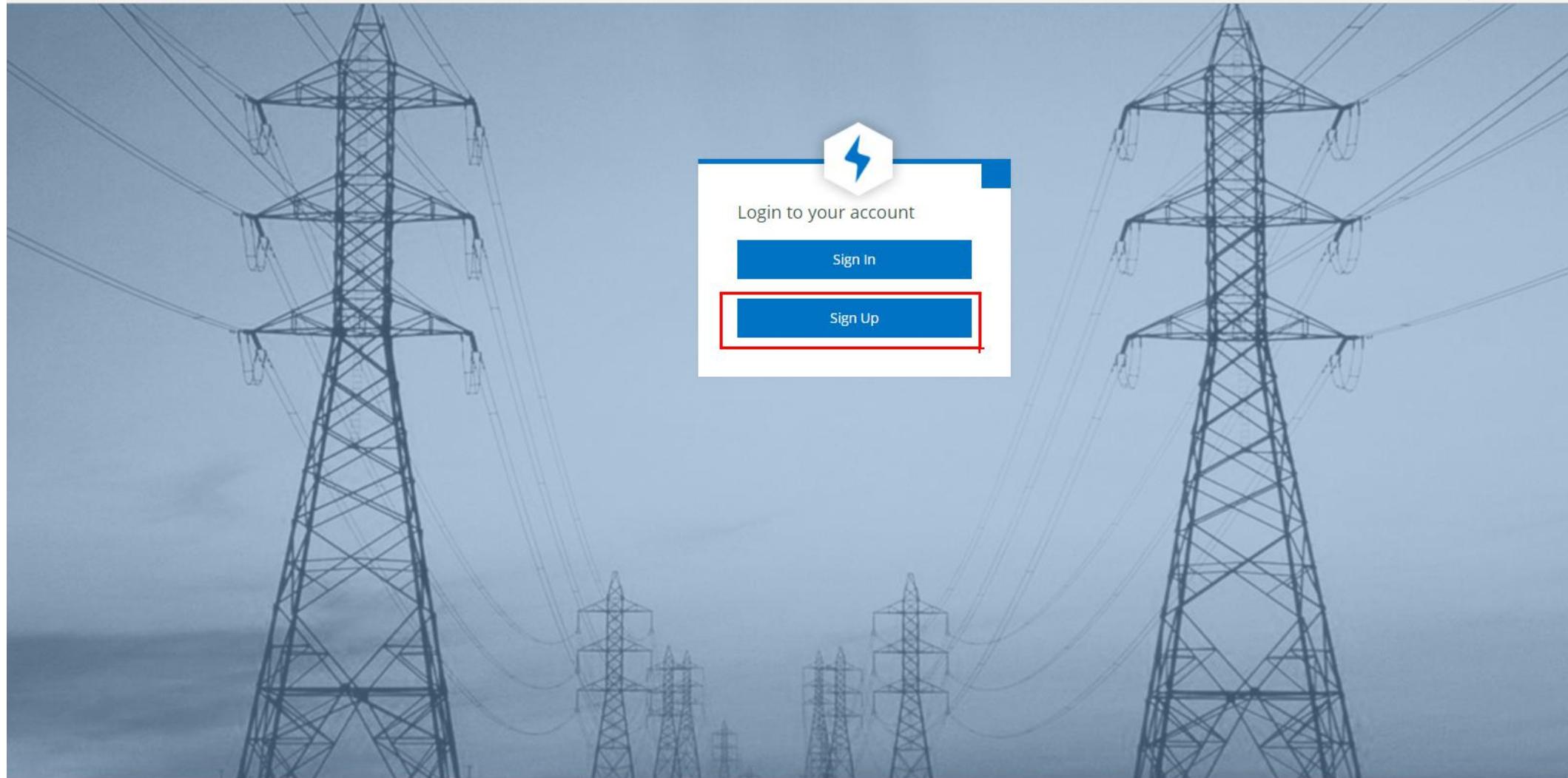
Include native client  Yes  No

Type here to search

10:05 PM 6/17/2017

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Secure | https://emwebdemodeploy123.azurewebsites.net/#/login



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Sign In

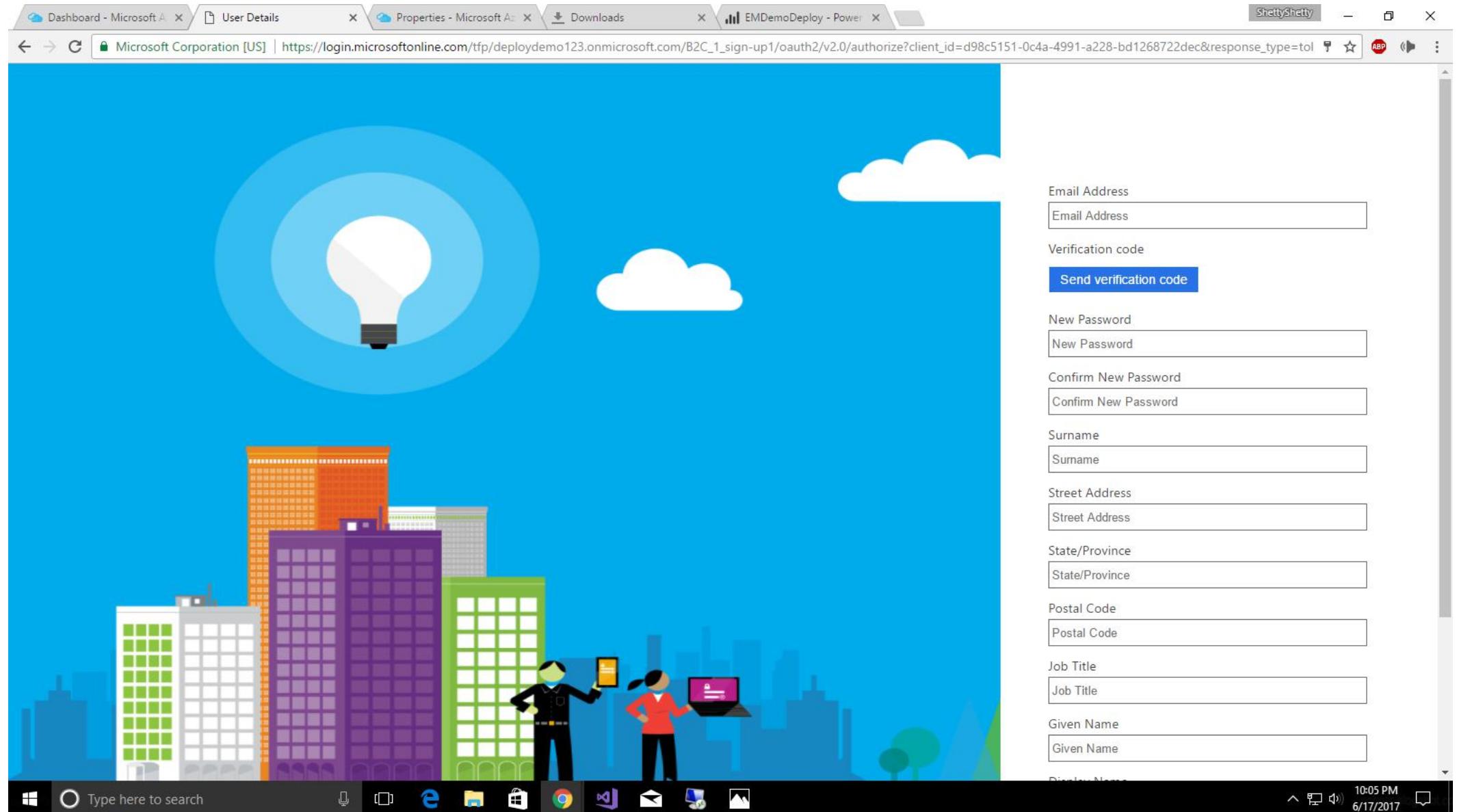
Sign Up

Windows Start button Type here to search Microphone Task View Internet Explorer File Microsoft Edge Google Chrome Mail File Explorer Pictures

10:05 PM 6/17/2017

Dashboard - Microsoft A X User Details X Properties - Microsoft A Z X Downloads X EMDemoDeploy - Power X ShettyShetty -

Microsoft Corporation [US] | https://login.microsoftonline.com/tfp/deploydemo123.onmicrosoft.com/B2C\_1\_sign-up1/oauth2/v2.0/authorize?client\_id=d98c5151-0c4a-4991-a228-bd1268722dec&response\_type=tol



Email Address

Verification code  
**Send verification code**

New Password

Confirm New Password

Surname

Street Address

State/Province

Postal Code

Job Title

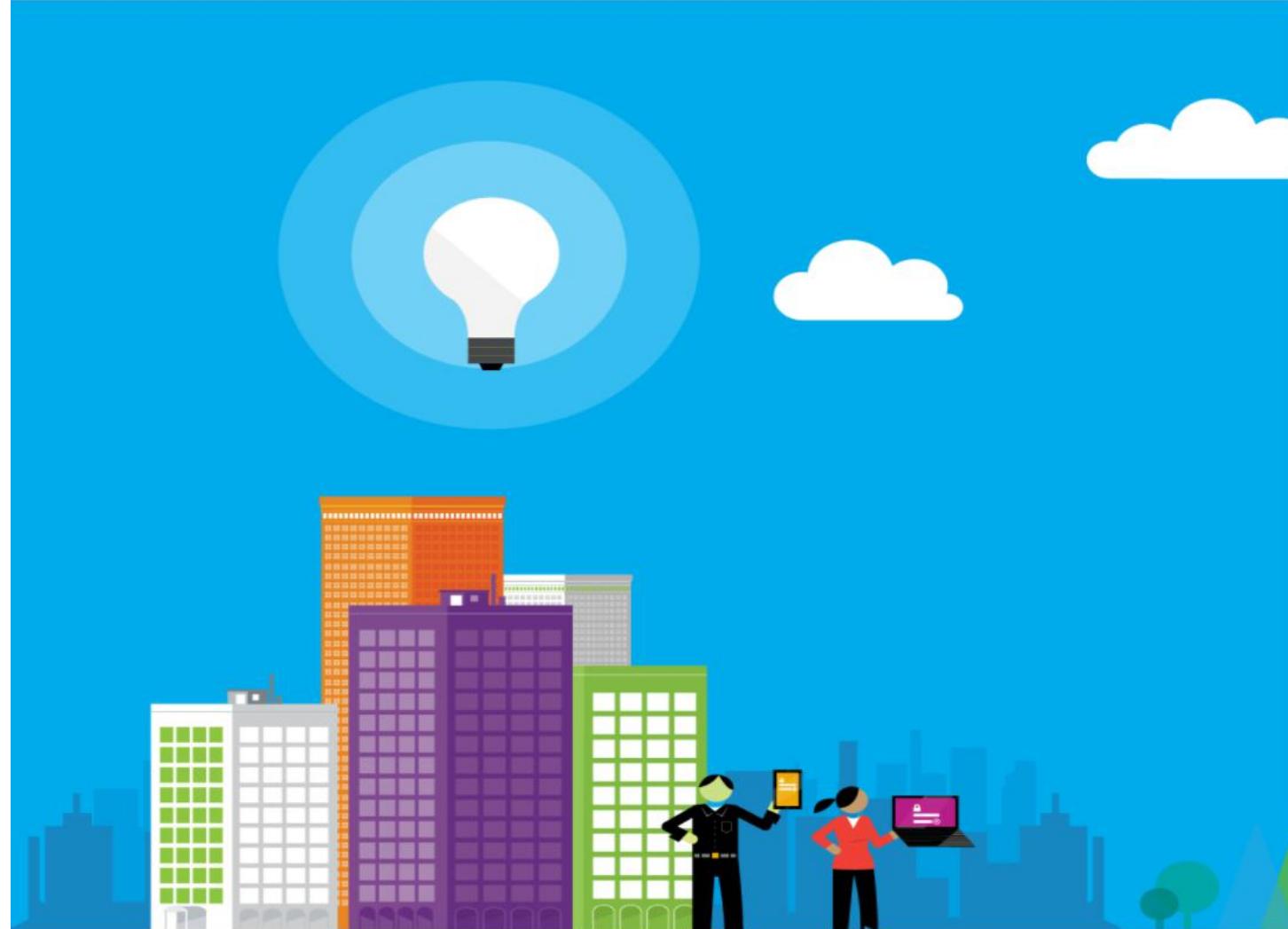
Given Name

Type here to search

10:05 PM 6/17/2017

Dashboard - Microsoft A X User Details X Properties - Microsoft Az X Downloads X EMDemoDeploy - Power X ShettyShetty -

Microsoft Corporation [US] | https://login.microsoftonline.com/tfp/deploydemo123.onmicrosoft.com/B2C\_1\_sign-up1/oauth2/v2.0/authorize?client\_id=d98c5151-0c4a-4991-a228-bd1268722dec&response\_type=tol



Email Address

Verification code

**Verify code** **Send new code**

New Password

Confirm New Password

Surname

Street Address

State/Province

Postal Code

Job Title

Given Name

Display Name

Country/Region

10:07 PM 6/17/2017

Type here to search

Windows Start Button

Microphone icon

Copy icon

Edge icon

File Explorer icon

Google Chrome icon

PowerShell icon

Mail icon

Task View icon

Image icon

Page Number: 346

Dashboard - Microsoft A X User Details X Properties - Microsoft A Z X Downloads X EMDemoDeploy - Power X ShettyShetty - X

Microsoft Corporation [US] | https://login.microsoftonline.com/tfp/deploydemo123.onmicrosoft.com/B2C\_1\_sign-up1/oauth2/v2.0/authorize?client\_id=d98c5151-0c4a-4991-a228-bd1268722dec&response\_type=tol

Please wait while we process your information.

Change e-mail

New Password  
.....

Confirm New Password  
.....

Surname  
Shah

Street Address  
Baner Road

State/Province  
Maharashtra

Postal Code  
411045

Job Title  
Software Engineer

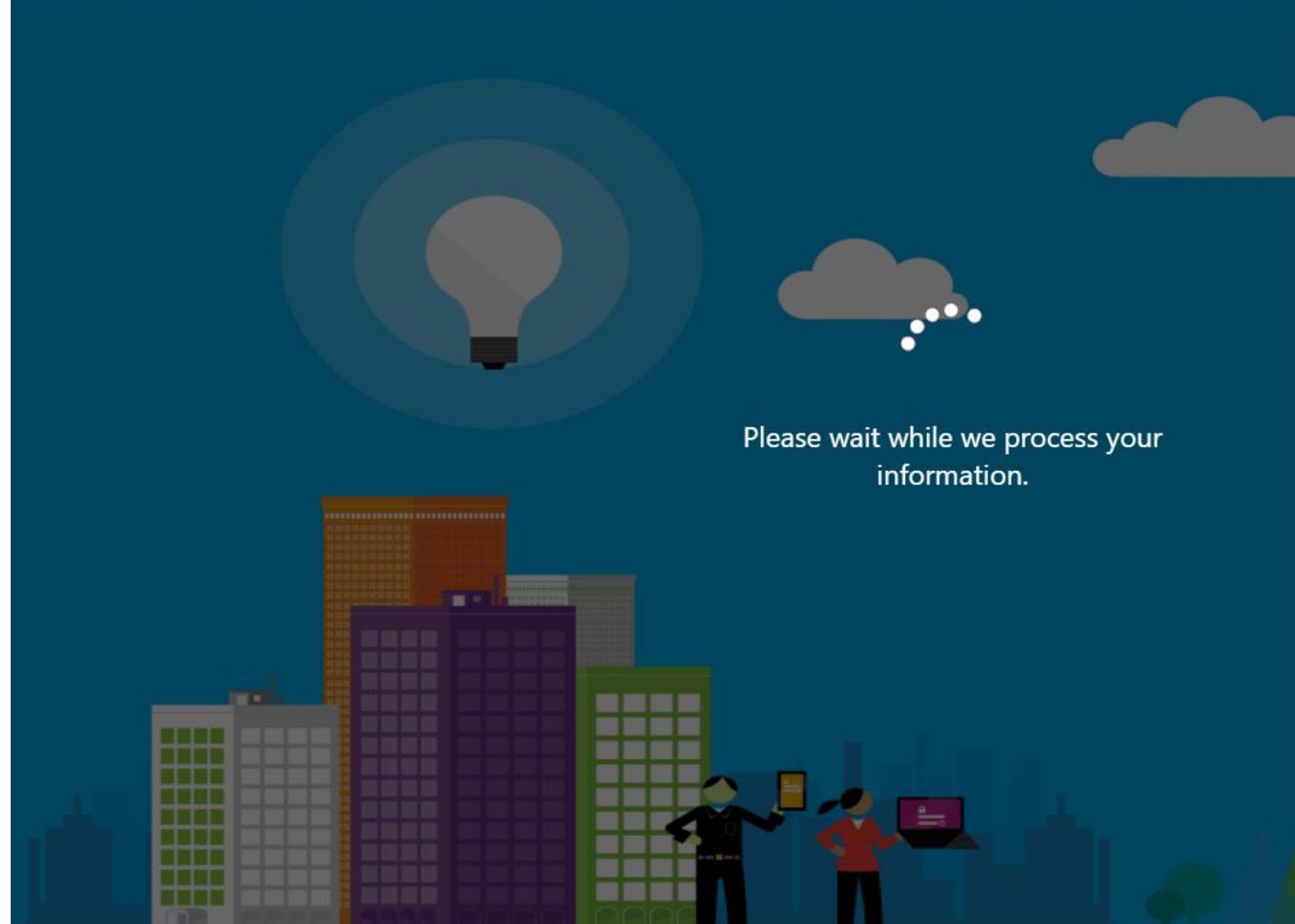
Given Name  
Surabh Shah

Display Name  
Surabh Shah

Country/Region  
India

City  
Pune

Create Cancel

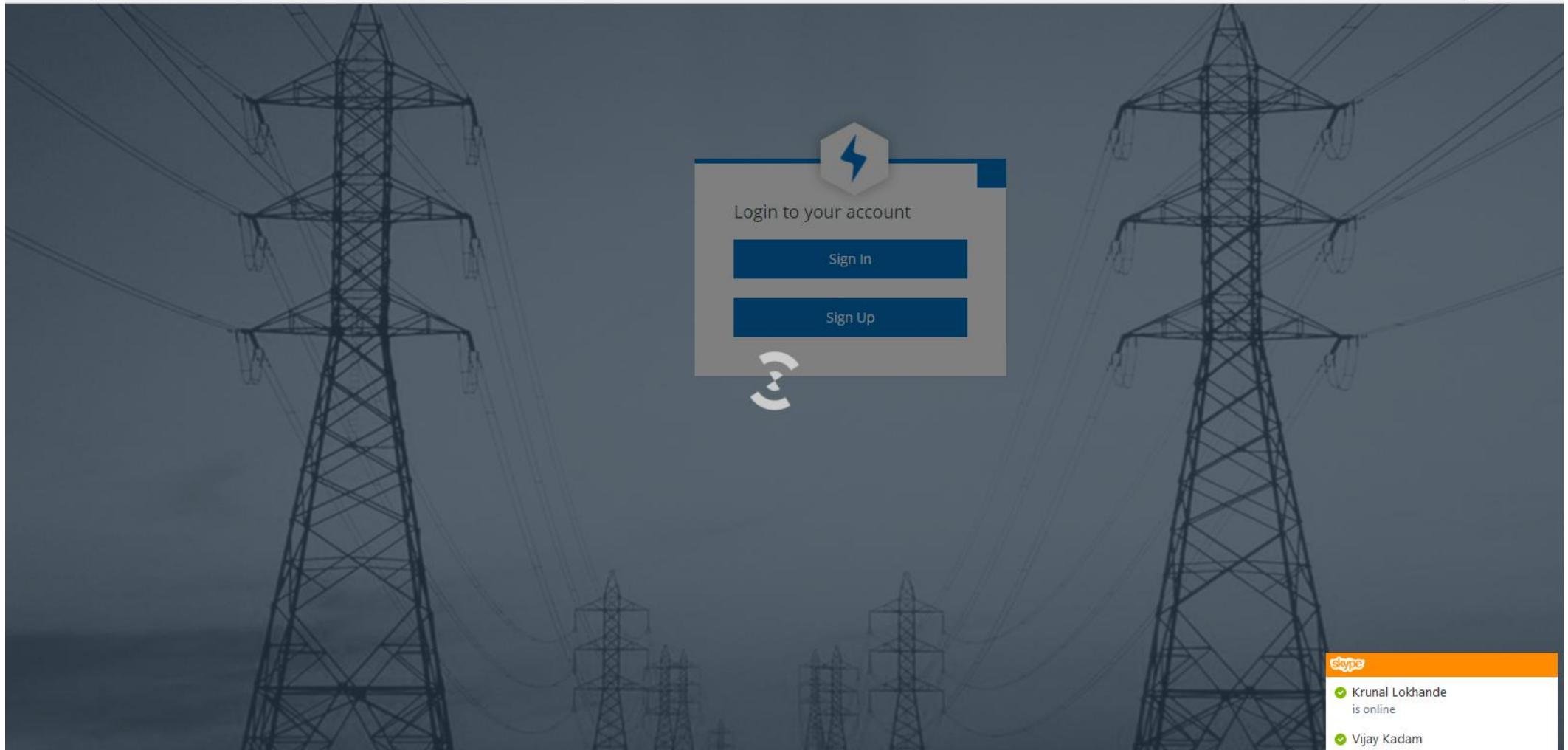


Type here to search

10:07 PM 6/17/2017

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Secure | https://emwebdemodeploy123.azurewebsites.net/#/login



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Sign Up

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- Krunal Lokhande is online
- Vijay Kadam is online

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Secure | https://emwebdemodeploy123.azurewebsites.net/#/dashboard/overview

## Energy Management

72°F 17 Jun 2017  
Mostly Cloudy



Surab Shah  
[Logout](#)

- [DASHBOARD](#)
- [REPORTS](#)
- [CONFIGURATION](#)
- [ALERTS](#)
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### INSIGHTS

0.00K CONSUMED IN LAST WEEK(KWH)    0.00K UNDERUSED    0.00K EXPECTED

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Bing

Skype  
Anagha Bharadwaj is online

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Secure | https://emwebdemodeploy123.azurewebsites.net/#/dashboard/overview

## Energy Management

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Mostly Cloudy



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**INSIGHTS**

**0.00K CONSUMED IN LAST WEEK(KWH)** **0.00K UNDERUSED** **0.00K EXPECTED**

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Secure https://emwebdemodeploy123.azurewebsites.net/#/dashboard/piconf

## Energy Management

Surabh Shah Logout

DASHBOARD REPORTS CONFIGURATION ALERTS FEEDBACK DOWNLOAD POWER MAP REPORT

### Premise Configuration

Show 10 entries Search:

Premise ID	Premise Name	Premise Desc	Monthly Consumption	Edit
No data available in table				

Showing 0 to 0 of 0 entries Previous Next

Add Premise

### Premise-Building Mapping

### PI Server Configuration

### Power BI Credentials

### Power BI Configuration(Organisation)

### Power BI Configuration(Premise)

### Power BI Configuration(Building)

### Power BI Configuration(Feedback)

### Azure ML Configuration

### Firebase Configuration

Type here to search 10:08 PM 6/17/2017

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Secure | https://emwebdemodeploy123.azurewebsites.net/#/dashboard/piconf

## Energy Management

72°F 17 Jun 2017  
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DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

Power BI Configuration(Organisation)

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

User Configuration

Organization Configuration

Organization Configuration

MyOrg

This is my Org

Pune

Choose File No file chosen

Add

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## Energy Management

72°F 17 Jun 2017  
Mostly Cloudy



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DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

Premise Configuration

Premise-Building Mapping

PI Server Configuration

Power BI Credentials

Power BI Configuration(Organisation)

Power BI Configuration(Premise)

Power BI Configuration(Builidng) +

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

User Configuration

Organization Configuration

Room Configuration

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## Energy Management

Surabh Shah 

Logout

DASHBOARD REPORTS CONFIGURATION ALERTS FEEDBACK DOWNLOAD POWER MAP REPORT

Premise Configuration

Premise-Building Mapping

PI Server Configuration

Power BI Credentials

Client Id

Client Secret

Username

Password

Add

Use the same client ID and secret we got during registration of app for Power BI!

Power BI Configuration(Organisation)

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings

demodeploy123

Settings Manifest Delete

Search resources

itadmin@admindoma... AMPL

Application ID: d074939a-4294-4582-b540-8b657ff9b388

Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4

Display name: demodeploy123

Application type: Web app / API

Home page: https://emwebdemodeploy123.azurewebsites.net

All settings →

Properties

Reply URLs

Owners

Required permissions

Keys

Troubleshoot

New support request

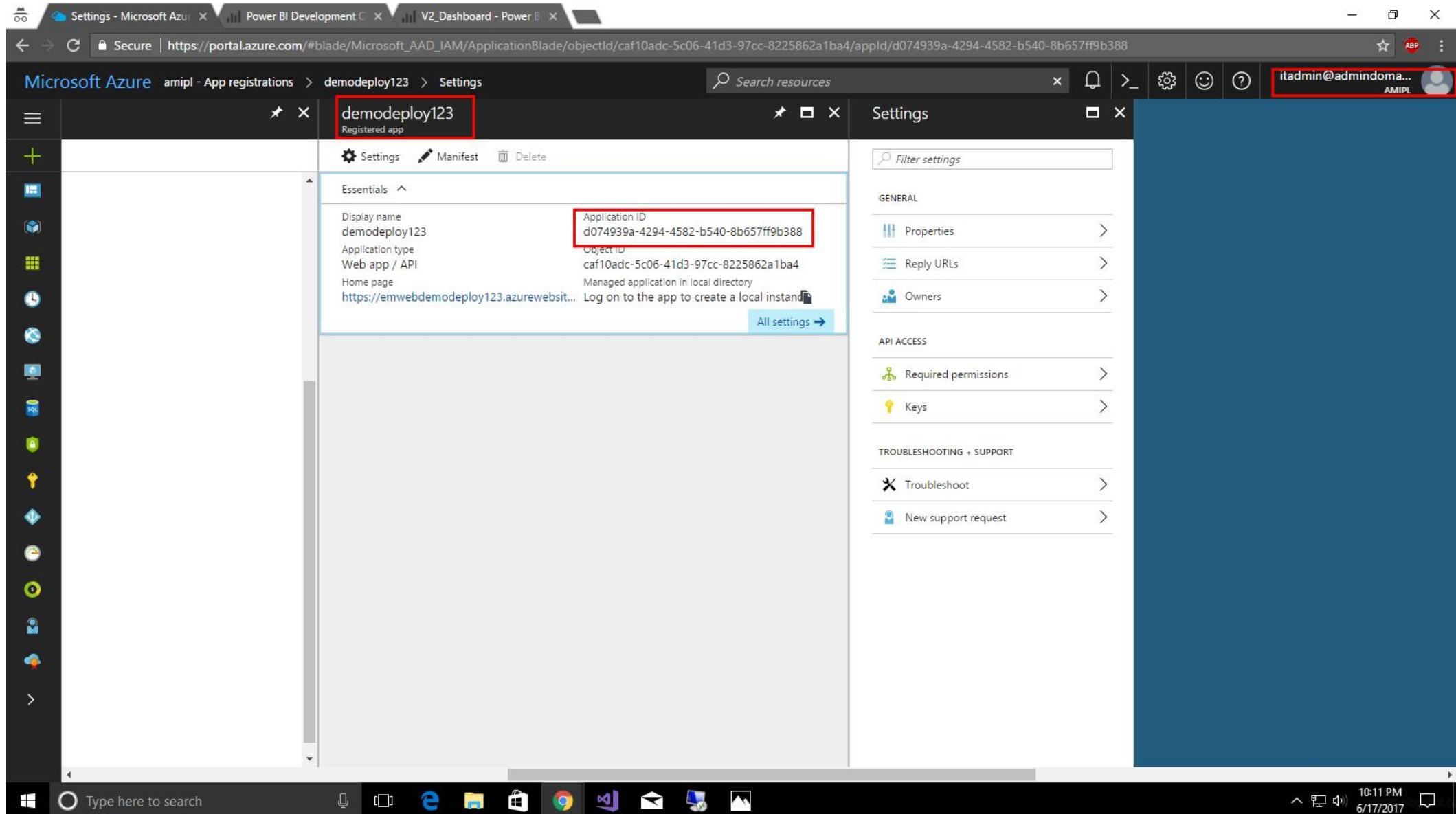
Filter settings

GENERAL

API ACCESS

TROUBLESHOOTING + SUPPORT

Settings



Keys - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Keys

Search resources

itadmin@admindoma... AMIPL

Keys

Save Discard

DESCRIPTION	EXPIRES	VALUE
Key description	6/17/2019	Hidden
Key description	Duration	Value will be displayed on save

All settings →

Application ID: d074939a-4294-4582-b540-8b657ff9b388  
Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4  
Managed application in local directory  
zurewebsit... Log on to the app to create a local instance

Properties  
Reply URLs  
Owners  
Required permissions  
Keys (highlighted with red box)  
Troubleshoot  
New support request

Type here to search

10:12 PM 6/17/2017

Keys - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Keys

Search resources

itadmin@admindoma... AMIPL

Save Discard

Application ID: d074939a-4294-4582-b540-8b657ff9b388  
Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4  
Managed application in local directory  
zurewebsit... Log on to the app to create a local instance

All settings →

GENERAL

- Properties
- Reply URLs
- Owners

API ACCESS

- Required permissions
- Keys

TROUBLESHOOTING + SUPPORT

- Troubleshoot
- New support request

Keys

DESCRIPTION	EXPIRES	VALUE
Key description	6/17/2019	Hidden
Key2	Never expires	Value will be displayed on save

+

Type here to search

10:12 PM 6/17/2017

Keys - Microsoft Azure   Power BI Development C   V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Keys

Search resources

itadmin@admindoma... AMIPL

Keys

Save Discard

Update application keys 10:12 PM  
Successfully updated application demodeploy123 keys

Copy the key value. You won't be able to retrieve after you leave this blade.

DESCRIPTION	EXPIRES	VALUE
Key description	6/17/2019	Hidden
Key2	12/31/2299	N4O5gqv6NeaAN4lcCrGqC/vqfaXZNIFpKXEqF039dn8=

All settings →

Application ID: d074939a-4294-4582-b540-8b657ff9b388  
Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4  
Managed application in local directory  
Log on to the app to create a local instance

Properties  
Reply URLs  
Owners  
Required permissions  
Keys

TROUBLESHOOTING + SUPPORT  
Troubleshoot  
New support request

Windows Taskbar: Type here to search, Microphone, Task View, Edge, File Explorer, Windows Store, Google Chrome, File Manager, Mail, Taskbar icons, 10:12 PM 6/17/2017

Keys - Microsoft Azure   Power BI Development C   V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Keys

Search resources

itadmin@admindoma... AMIPL

Keys

Save Discard

⚠ Copy the key value. You won't be able to retrieve after you leave this blade.

DESCRIPTION	EXPIRES	VALUE
Key description	6/17/2019	Hidden
Key2	12/31/2299	N4O5gqv6NeaAN4lcCrGqC/vqfaXZNIFpKXEqF039dn8=

All settings →

Application ID: d074939a-4294-4582-b540-8b657ff9b388  
Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4  
Managed application in local directory  
zurewebsit... Log on to the app to create a local instance

Properties  
Reply URLs  
Owners  
Required permissions  
Keys

TROUBLESHOOTING + SUPPORT  
Troubleshoot  
New support request

Type here to search

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Keys - Microsoft Azure Power BI Development V2\_Dashboard - Power BI

Secure | https://portal.azure.com/#blade/Microsoft\_AAD\_IAM/ApplicationBlade/objectId/caf10adc-5c06-41d3-97cc-8225862a1ba4/appId/d074939a-4294-4582-b540-8b657ff9b388

Microsoft Azure amipl - App registrations > demodeploy123 > Settings > Keys

Search resources

Save Discard

Copy the key value. You won't be able to retrieve after you leave this blade.

DESCRIPTION	EXPIRES	VALUE
Key description	6/17/2019	Hidden
Key2	12/31/2299	N4O5gqv6NeaAN4lcCrGqC/vqfaXZNIFpKXEqF039dn8=

All settings →

Application ID: d074939a-4294-4582-b540-8b657ff9b388  
Object ID: caf10adc-5c06-41d3-97cc-8225862a1ba4  
Managed application in local directory  
zurewebsit... Log on to the app to create a local instance

Properties  
Reply URLs  
Owners  
Required permissions  
Keys

TROUBLESHOOTING + SUPPORT  
Troubleshoot  
New support request

Copy Search Google for "N4O5gqv6NeaAN4lcCrGqC/vqfaXZNIFpKXEqF039dn8=" Ctrl+C  
Print... Ctrl+P  
Inspect Ctrl+Shift+I

Type here to search 10:13 PM 6/17/2017

Dashboard - Microsoft A Energy Management Properties - Microsoft A Downloads EMDemoDeploy - Power ShettyShetty 72°F 17 Jun 2017 ABP

Secure https://emwebdemodeploy123.azurewebsites.net/#/dashboard/piconf

## Energy Management

Surabh Shah Logout

DASHBOARD REPORTS CONFIGURATION ALERTS FEEDBACK DOWNLOAD POWER MAP REPORT

Premise Configuration

Premise-Building Mapping

PI Server Configuration

Power BI Credentials

d074939a-4294-4582-b540-8b657ff9b388

Client Undo Ctrl+Z  
User Redo Ctrl+Shift+Z  
Pass Cut Ctrl+X  
Copy Ctrl+C  
Paste Ctrl+V  
Paste as plain text Ctrl+Shift+V  
Select all Ctrl+A  
Spellcheck  
Writing Direction  
Inspect Ctrl+Shift+I

Add

Power BI Configuration(Organisation)

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Type here to search 10:13 PM 6/17/2017

Dashboard - Microsoft A Energy Management Properties - Microsoft Az Downloads EMDemoDeploy - Power ShettyShetty 72°F 17 Jun 2017 ABP

Secure https://emwebdemodeploy123.azurewebsites.net/#/dashboard/piconf

## Energy Management

Surabh Shah Logout

DASHBOARD REPORTS CONFIGURATION ALERTS FEEDBACK DOWNLOAD POWER MAP REPORT

Premise Configuration

Premise-Building Mapping

PI Server Configuration

Power BI Credentials

d074939a-4294-4582-b540-8b657ff9b388

N4O5gqv6NeaAN4lcCrGqC/vqfaXZNIFpKXEqF039dn8=

itadmin@admindomain.onmicrosoft.com

Microsoft!@#\$

Add

Power BI Configuration(Organisation)

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Type here to search 10:13 PM 6/17/2017

Energy Management Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... EM\_Anomaly\_72 | Co ... Web services - Micro ... Request Response A ... EM\_NextDayPredict ...

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

Mobiliya Energy Management 80°F 07 Sep 2017  
Scattered Thunderstorms

Jayesh Lunkad Logout

DASHBOARD REPORTS CONFIGURATION ALERTS FEEDBACK

PI Server Configuration

Power BI Credentials

Power BI Configuration(Organisation) Summary Report Id  
Summary Details Id Add

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

User Configuration

Organization Configuration

Type here to search 13:10 07-09-2017

Energy Management Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... EM\_Anomaly\_72 | Co ... Web services - Micro ... Request Response A ... EM\_NextDayPredict ...

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

80°F 07 Sep 2017  
Scattered Thunderstorms

## Mobiliya Energy Management

PI Server Configuration

Power BI Credentials

Power BI Configuration(Organisation)

https://app.powerbi.com/reportEmbed?reportId=c6b175a-f26b-417d-8779-1e3dfcd7ebf3

Summary Details Id

+ Add

Replace the above ID with report ID saved in earlier steps. Follow the same steps for configuring remaining reports.

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

User Configuration

Organization Configuration

Type here to search

13:13 07-09-2017

Energy Management Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... EM\_Anomaly\_72 | Co ... Web services - Micro ... Request Response A ... EM\_NextDayPredict ...

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

**Mobiliya Energy Management**

80°F 07 Sep 2017  
Scattered Thunderstorms

PI Server Configuration

Power BI Credentials

Power BI Configuration(Organisation)

https://app.powerbi.com/reportEmbed?reportId=c6b175a-f26b-417d-8779-1e3dfcd7ebf3

Prepend this before every report ID

Summary Details Id

Add

Replace the above ID with report ID saved in earlier steps. Follow the same steps for configuring remaining reports.

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

User Configuration

Organization Configuration

Type here to search

13:13 07-09-2017

Energy Management Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... EM\_Anomaly\_72 | Co ... Web services - Micro ... Request Response A ... EM\_NextDayPredict ...

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

## Mobiliya Energy Management

80°F 07 Sep 2017  
Scattered Thunderstorms



Jayesh Lunkad

Logout

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

PI Server Configuration

Power BI Credentials

Power BI Configuration(Organisation)

https://app.powerbi.com/reportEmbed?reportId=cc6b175a-f26b-417d-8779-1e3dfcd7ebf3

https://app.powerbi.com/reportEmbed?reportId=f97a9b58-c6fa-4ab8-9f2c-15377a42c5b2

Add

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

User Configuration

Organization Configuration

Type here to search

13:15 07-09-2017

Energy Management Experiments - Micro EM\_Experiment\_72 | Co Web services - Micro Request Response A EM\_NextDayPredict

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

80°F 07 Sep 2017  
Scattered Thunderstorms

## Mobiliya Energy Management

PI Server Configuration

Power BI Credentials

Power BI Configuration(Organisation)

https://app.powerbi.com/reportEmbed?reportId=cc6b175a-f26b-417d-8779-1e3dfcd7ebf3

https://app.powerbi.com/reportEmbed?reportId=f97a9b58-c6fa-4ab8-9f2c-15377a42c5b2

Add

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

User Configuration

Organization Configuration

Configuration Updated

Type here to search

13:16 07-09-2017

Dashboard - Microsoft A Energy Management Properties - Microsoft A Downloads EMDemoDeploy - Power ShettyShetty

Secure | https://emwebdemodeploy123.azurewebsites.net/#/dashboard/overview

## Energy Management

72°F 17 Jun 2017  
Mostly Cloudy



Surabh Shah

Logout

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

INSIGHTS

0.00K CONSUMED IN LAST WEEK(KWH) 0.00K UNDERUSED 0.00K EXPECTED

VIEW MORE

DOWNLOAD POWER MAP REPORT

Dashboard - Microsoft A Energy Management Properties - Microsoft A Downloads EMDemoDeploy - Power ShettyShetty

Secure | https://emwebdemodeploy123.azurewebsites.net/#/dashboard/reports

## Energy Management

72°F 17 Jun 2017  
Mostly Cloudy

### ORGANIZATION SUMMARY

Surabh Shah

Logout

DASHBOARD

**REPORTS**

CONFIGURATION

ALERTS

FEEDBACK

Electric Cost till date Total Consumption till date (in KWh)

Cost for this month Consumption for this month (in KWh)

Projected Consumption for this month (in KWh)

Projected cost for this month

Energy consumption and cost over months (Drill for more...)

Consumption of this month VS Predicted consumption

Filters

Summary Day & Time Summary

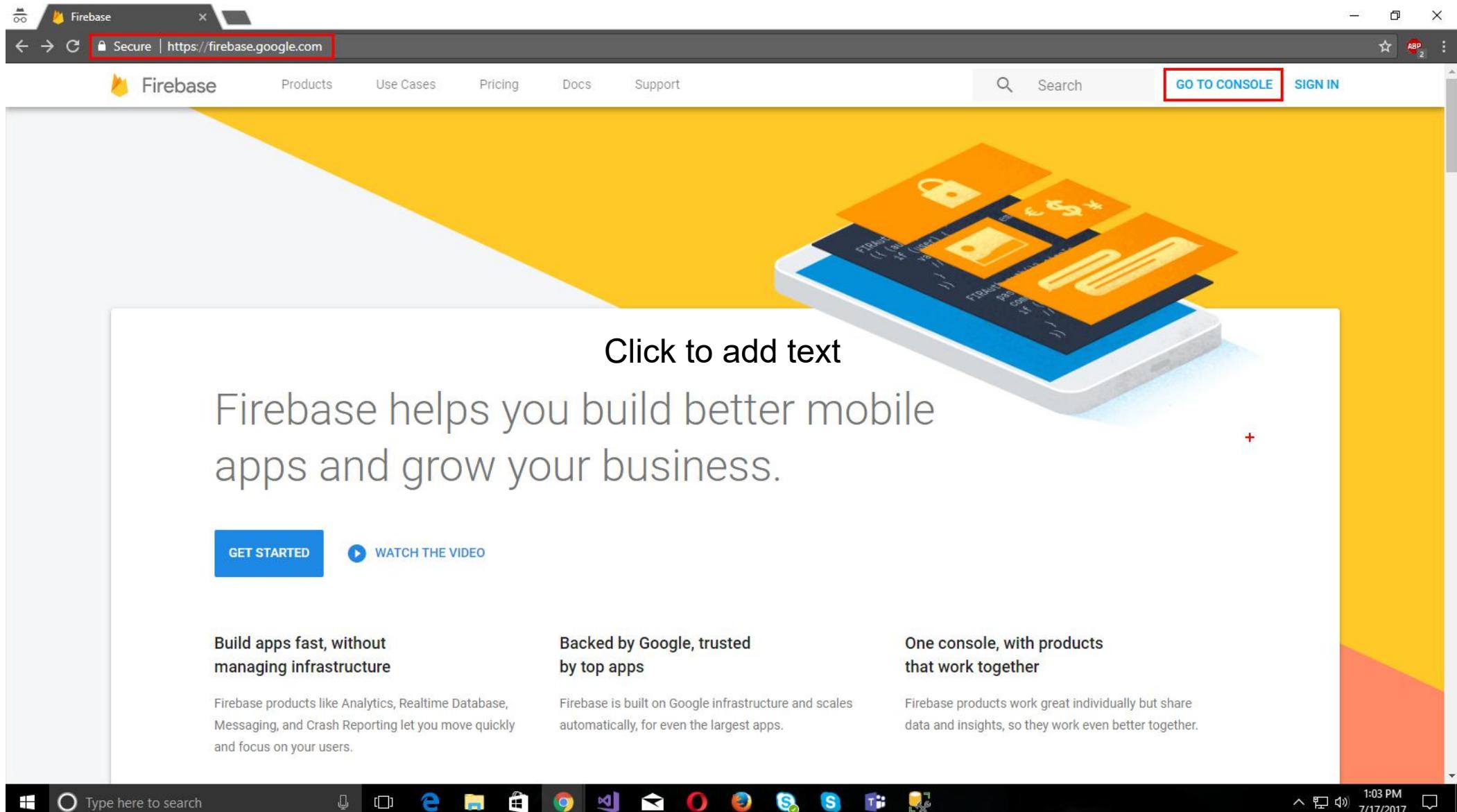
DOWNLOAD POWER MAP REPORT

SUMMARY DETAILS

Type here to search

10:18 PM 6/17/2017

# Firebase setup



The screenshot shows the official Firebase website (<https://firebase.google.com>) displayed in a web browser. The page features a yellow and white design with a smartphone icon containing various app icons like lock, dollar sign, and gear. A large text area says "Click to add text" and "Firebase helps you build better mobile apps and grow your business." Below this are two buttons: "GET STARTED" and "WATCH THE VIDEO". At the bottom, there are three columns: "Build apps fast, without managing infrastructure" (with a subtext about Firebase products), "Backed by Google, trusted by top apps" (with a subtext about Google infrastructure), and "One console, with products that work together" (with a subtext about sharing data and insights). The browser's address bar is highlighted with a red box, and the "GO TO CONSOLE" button in the header is also highlighted with a red box.

Secure | https://firebase.google.com

Firebase Products Use Cases Pricing Docs Support Search GO TO CONSOLE SIGN IN

Click to add text

Firebase helps you build better mobile apps and grow your business.

GET STARTED WATCH THE VIDEO

Build apps fast, without managing infrastructure

Backed by Google, trusted by top apps

One console, with products that work together

Windows Type here to search 1:03 PM 7/17/2017 Confidential

Firebase console Secure | https://console.firebaseio.google.com

Welcome to Firebase

Tools from Google for developing great apps, engaging with your users, and earning mobile ads.

[Learn more](#) [Documentation](#)

Recent projects

+ Add project

Explore a demo project

Create a project

You're 2 projects away from the project limit.

Project name: My awesome project

Country/region: United States

By default, your Analytics data will enhance other Firebase features and Google products. You can control how your analytics data is shared in your settings at anytime. [Learn more](#)

CANCEL CREATE PROJECT

SmartParking smartparking-46216 CSU Android App csu-android-app DaveyPocApp daveypocapp

Type here to search

1:05 PM 7/17/2017

Firebase console Secure | https://console.firebaseio.google.com

Welcome to Firebase

Tools from Google for developing great apps, engaging with your users, and earning mobile ads.

Learn more Documentation

Recent projects

+ Add project

Explore a demo project

Create a project

You're 2 projects away from the project limit.

Project name: EMDeploy

Country/region: United States

By default, your Analytics data will enhance other Firebase features and Google products. You can control how your analytics data is shared in your settings at anytime. [Learn more](#)

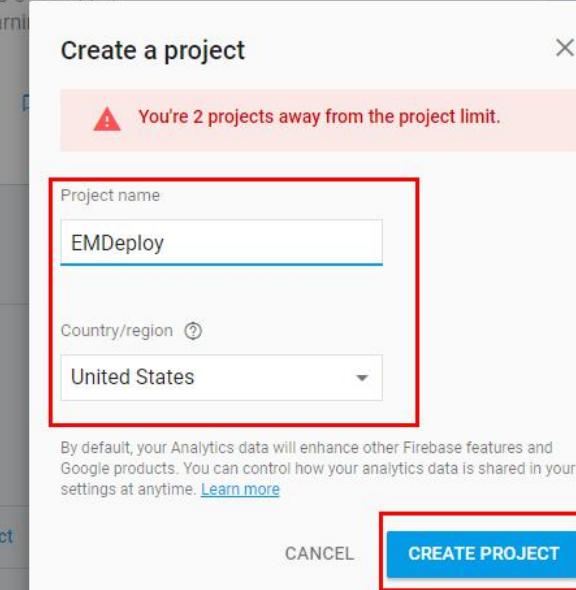
CANCEL CREATE PROJECT

SmartParking smartparking-46216

CSU Android App csu-android-app

DaveyPocApp daveypocapp

Windows Type here to search 1:05 PM 7/17/2017



EMDeploy – Overview – X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview

Analytics

DEVELOP

- Authentication
- Database
- Storage
- Hosting
- Functions
- Test Lab
- Crash Reporting
- Performance

GROW

- Notifications
- Remote Config
- Dynamic Links

EARN

- AdMob

Spark Free \$0/month

UPGRADE

Welcome to Firebase! Get started here.

iOS Add Firebase to your iOS app

Android Add Firebase to your Android app

</> Add Firebase to your web app

Discover Firebase

Analytics

Get detailed analytics to measure and analyze how users engage with your app

Authentication

Authenticate and manage users from a variety of providers without server-side code

Database

Store and sync data in realtime across all connected clients

Type here to search

1:05 PM 7/17/2017

EMDeploy – Overview | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview Project settings

Managed in Google Cloud Console 

Users and permissions

Welcome to Firebase! Get started here.

iOS Add Firebase to your iOS app

Android Add Firebase to your Android app

</> Add Firebase to your web app

Discover Firebase

Analytics Authentication Database

Get detailed analytics to measure and analyze how users engage with your app

Authenticate and manage users from a variety of providers without server-side code

Store and sync data in realtime across all connected clients

UPGRADE

https://console.firebaseio.google.com/project/emdeploy/settings/general/

Type here to search

1:07 PM 7/17/2017

EMDeploy – Settings – Fi

Secure | https://console.firebaseio.google.com/project/emdeploy/settings/general/

Firebase EMDeploy

Overview Analytics

GENERAL CLOUD MESSAGING ANALYTICS ACCOUNT LINKING SERVICE ACCOUNTS

?

Analytics

DEVELOP

Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance

GROW

Notifications Remote Config Dynamic Links

EARN

AdMob

Spark Free \$0/month UPGRADE

Settings

Your project

Project name EMDeploy

Public-facing name EMDeploy

Project ID emdeploy

Web API Key AlzaSyAaG0DaDAepRZec4ckXeuS84gnmmZvnuV0

Your apps

+

There are currently no apps in the project EMDeploy

iOS Add Firebase to your iOS app

Android Add Firebase to your Android app

</> Add Firebase to your web app

Type here to search

1:07 PM 7/17/2017

EMDeploy – Settings – Fi

Secure | https://console.firebaseio.google.com/project/emdeploy/settings/cloudmessaging/

Firebase EMDeploy

Overview Analytics DEVELOP Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance GROW Notifications Remote Config Dynamic Links EARN AdMob UPGRADE

Settings GENERAL CLOUD MESSAGING ANALYTICS ACCOUNT LINKING SERVICE ACCOUNTS

Project credentials

ADD SERVER KEY

Key	Token
Server key	AAAAAbN8nqhg:APA91bFXercfCNEjR4ODN6eHBm9pHtEnvCd7au7w9QXFywVhpdlzoeQPRJaiIJz1g12Vjy OF1CJJ4aYrs2qtbWcOM9-R1F6qWdHL2DB5k9Ewvd9BNE0ZcxQ7-mg0JF_HZVp5yzqW4q3
Legacy server key	AlzaSyDPCOkYtN4o7nMG1eGXouUi46fWL_F1Xd4
Sender ID	
467600386584	+

iOS app configuration

You don't have an iOS app

Type here to search 1:07 PM 7/17/2017

EMDeploy – Settings – Fi

Secure | https://console.firebaseio.google.com/project/emdeploy/settings/general/

Firebase EMDeploy

Overview Overview

Analytics Analytics

DEVELOP

Authentication Authentication

Database Database

Storage Storage

Hosting Hosting

Functions Functions

Test Lab Test Lab

Crash Reporting Crash Reporting

Performance Performance

GROW

Notifications Notifications

Remote Config Remote Config

Dynamic Links Dynamic Links

EARN

AdMob AdMob

Spark Free \$0/month

UPGRADE

Settings

GENERAL CLOUD MESSAGING ANALYTICS ACCOUNT LINKING SERVICE ACCOUNTS

Your project

Project name EMDeploy

Public-facing name EMDeploy

Project ID emdeploy

Web API Key AlzaSyAaG0DaDAepRZec4ckXeuS84gnmmZvnuV0

Your apps

There are currently no apps in the project EMDeploy

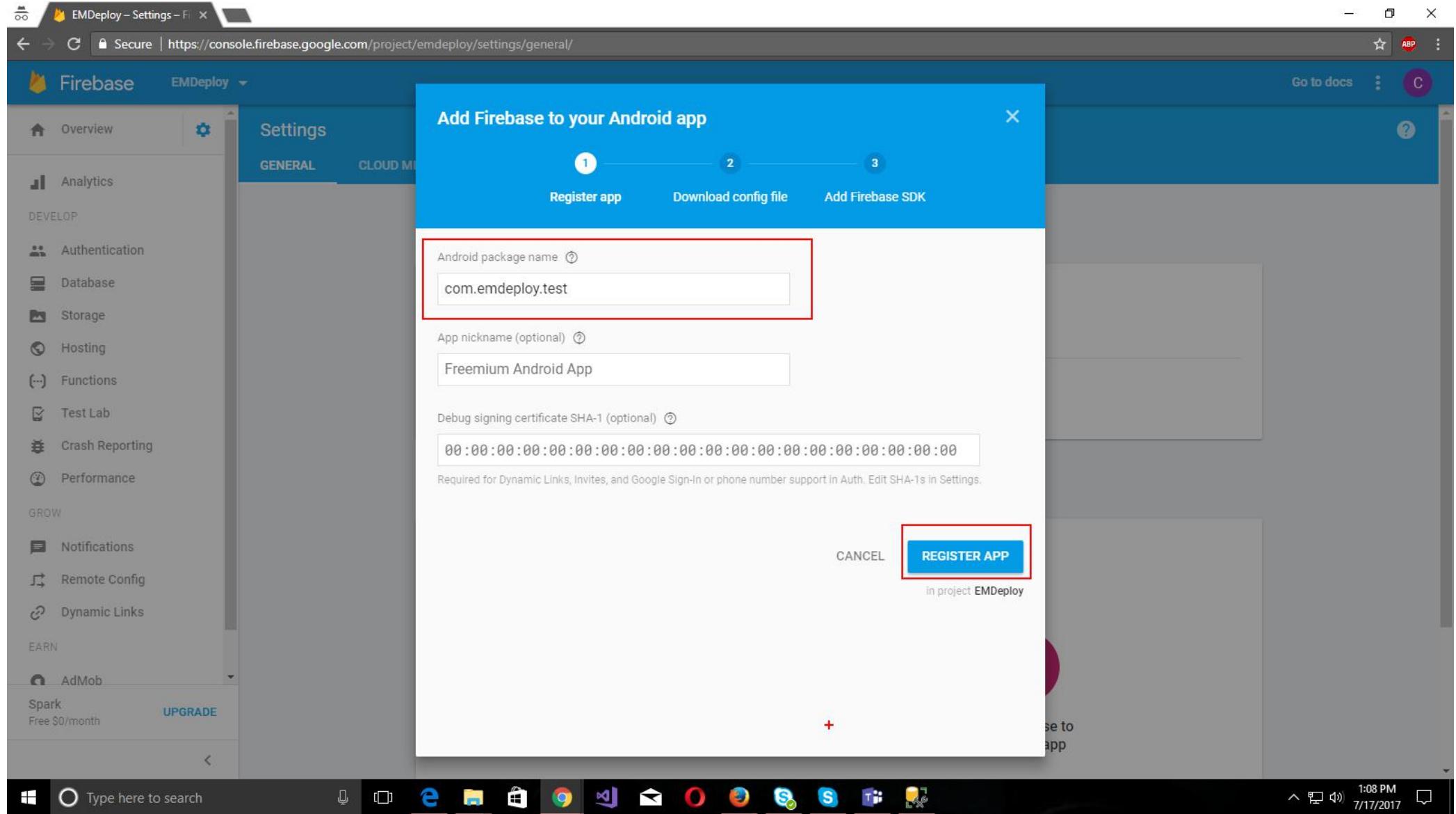
iOS Add Firebase to your iOS app

Add Firebase to your Android app

</> Add Firebase to your web app

Type here to search

1:08 PM 7/17/2017



The screenshot shows the Firebase console interface. On the left, a sidebar lists various services: Overview, Analytics, DEVELOP (Authentication, Database, Storage, Hosting, Functions, Test Lab, Crash Reporting, Performance), GROW (Notifications, Remote Config, Dynamic Links), and EARN (AdMob). A banner at the bottom left indicates a free trial of Spark with \$0/month. In the center, a modal window titled "Add Firebase to your Android app" is open, divided into three steps: 1. Register app (highlighted with a red border), 2. Download config file, and 3. Add Firebase SDK. Step 1 contains fields for "Android package name" (com.emdeploy.test), "App nickname (optional)" (Freemium Android App), and "Debug signing certificate SHA-1 (optional)" (00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00). Below these fields is a note: "Required for Dynamic Links, Invites, and Google Sign-In or phone number support in Auth. Edit SHA-1s in Settings." At the bottom right of the modal are "CANCEL" and "REGISTER APP" buttons, with the latter also labeled "in project EMDeploy". The background of the modal has a red border.

EMDeploy – Settings – FI

Secure | https://console.firebaseio.google.com/project/emdeploy/settings/general/

Firebase EMDeploy

Overview Settings GENERAL CLOUD M...

Analytics DEVELOP Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance

GROW Notifications Remote Config Dynamic Links

EARN

AdMob UPGRADE

Spark Free \$0/month

Add Firebase to your Android app

1 Register app 2 Download config file 3 Add Firebase SDK

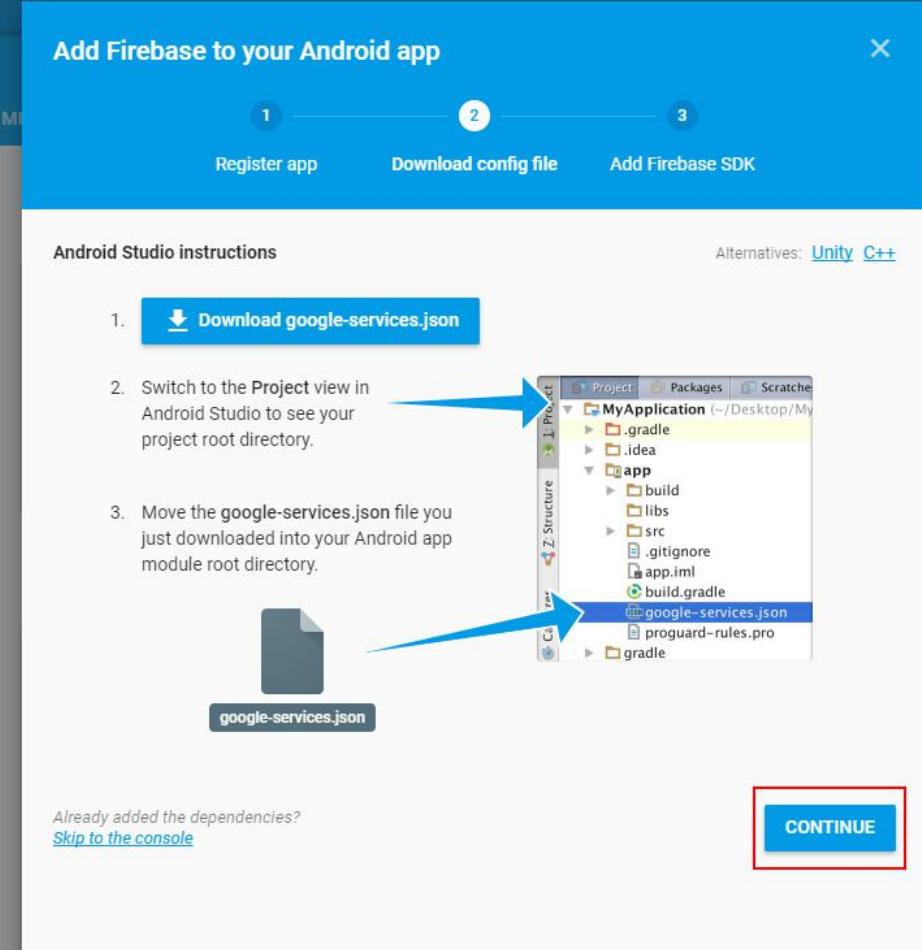
Android Studio instructions Alternatives: [Unity](#) [C++](#)

1. [Download google-services.json](#)
2. Switch to the Project view in Android Studio to see your project root directory.
3. Move the google-services.json file you just downloaded into your Android app module root directory.

google-services.json

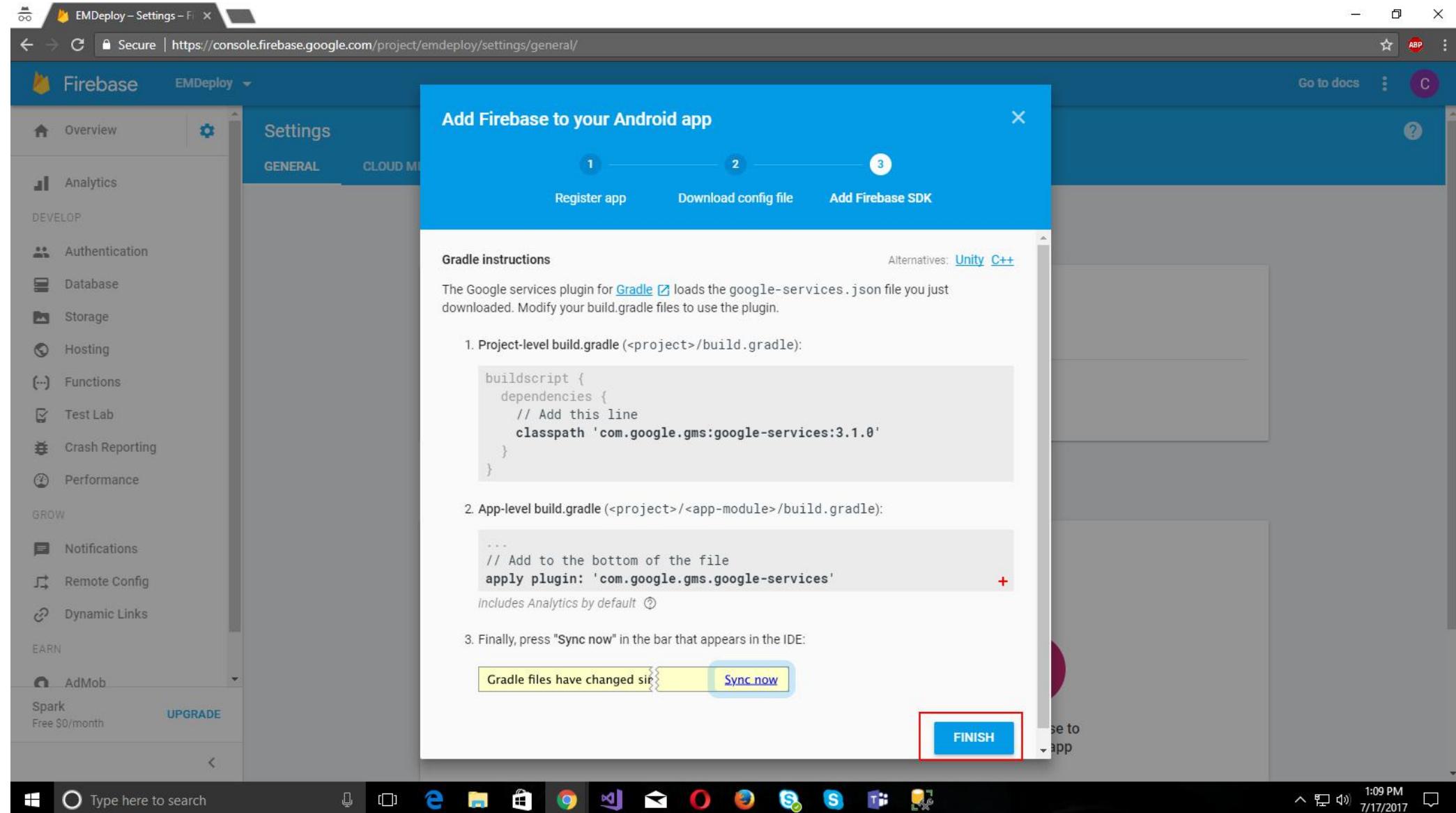
CONTINUE

Already added the dependencies? [Skip to the console](#)



Project Structure

- MyApplication (~/Desktop/MyApplication)
- .gradle
- .idea
- app
- build
- libs
- src
- .gitignore
- app.iml
- build.gradle
- google-services.json
- proguard-rules.pro
- gradle



Add Firebase to your Android app

1 Register app 2 Download config file 3 Add Firebase SDK

Gradle instructions

Alternatives: [Unity](#) [C++](#)

The Google services plugin for [Gradle](#) loads the google-services.json file you just downloaded. Modify your build.gradle files to use the plugin.

1. Project-level build.gradle (<project>/build.gradle):

```
buildscript {  
    dependencies {  
        // Add this line  
        classpath 'com.google.gms:google-services:3.1.0'  
    }  
}
```

2. App-level build.gradle (<project>/<app-module>/build.gradle):

```
...  
// Add to the bottom of the file  
apply plugin: 'com.google.gms.google-services'  
+  
includes Analytics by default
```

3. Finally, press "Sync now" in the bar that appears in the IDE:

Gradle files have changed since last sync Sync now

**FINISH**

EMDeploy – Overview | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview

Analytics

DEVELOP

- Authentication
- Database
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- Hosting
- Functions
- Test Lab
- Crash Reporting
- Performance

GROW

- Notifications
- Remote Config
- Dynamic Links

EARN

- AdMob

Spark  
Free \$0/month

UPGRADE

EMDeploy mobile apps

com.emdeploy.test

Explore Google Analytics for Firebase →

0 Monthly active users	\$0 Estimated revenue
Crashes (30 days)	
0 Users impacted	0 Instances

Add another app

Discover Firebase

Analytics

Authentication

Database

Type here to search

1:14 PM 7/17/2017

EMDeploy – Overview – | X

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Firebase EMDeploy

Overview

Analytics

DEVELOP

- Authentication
- Database
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- Hosting
- Functions
- Test Lab
- Crash Reporting
- Performance

GROW

- Notifications
- Remote Config
- Dynamic Links

EARN

- AdMob

Spark Free \$0/month [UPGRADE](#)

EMDeploy mobile apps

com.emdeploy.test

Explore Google Analytics for Firebase →

0 Monthly active users	\$0 Estimated revenue
Crashes (30 days)	0 Users impacted
0 Instances	0

iOS Android Web

Discover Firebase

Analytics Authentication Database

Type here to search 1:14 PM 7/17/2017

EMDeploy – Overview | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy Overview Go to docs C

Analytics Overview ?

DEVELOP

Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance

GROW

Notifications Remote Config Dynamic Links

EARN

AdMob Spark Free \$0/month UPGRADE

Add Firebase to your web app

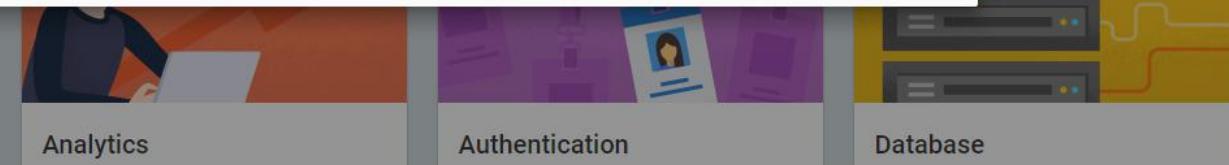
Copy and paste the snippet below at the bottom of your HTML, before other `script` tags.

```
<script src="https://www.gstatic.com/firebasejs/4.1.3/firebase.js"></script>
<script>
  // Initialize Firebase
  var config = {
    apiKey: "AIzaSyAaG0DaDAepRZec4ckXeuS84gnmmZvnuV0",
    authDomain: "emdeploy.firebaseio.com",
    databaseURL: "https://emdeploy.firebaseio.com",
    projectId: "emdeploy",
    storageBucket: "emdeploy.appspot.com",
    messagingSenderId: "467600386584"
  };
  firebase.initializeApp(config);
</script>
```

COPY

Check these resources to learn more about Firebase for web apps:

[Get Started with Firebase for Web Apps](#) [Firebase Web SDK API Reference](#) [+ Firebase Web Samples](#)



Analytics Authentication Database

Type here to search 1:14 PM 7/17/2017

EMDeploy – Overview – | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview

Analytics

DEVELOP

- Authentication
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- Hosting
- Functions
- Test Lab
- Crash Reporting
- Performance

GROW

- Notifications
- Remote Config
- Dynamic Links

EARN

- AdMob

Spark Free \$0/month [UPGRADE](#)

EMDeploy mobile apps

com.emdeploy.test

Explore Google Analytics for Firebase →

0 Monthly active users	\$0 Estimated revenue ?
0 Crashes (30 days)	0 Users impacted
0 Instances	

Add another app

Discover Firebase

Analytics

Authentication

Database

Type here to search

1:23 PM 7/17/2017

EMDeploy – Overview – | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview

Analytics

DEVELOP

- Authentication
- Database
- Storage
- Hosting
- Functions
- Test Lab
- Crash Reporting
- Performance

GROW

- Notifications
- Remote Config
- Dynamic Links

EARN

- AdMob

Spark Free \$0/month [UPGRADE](#)

EMDeploy mobile apps

com.emdeploy.test

Explore Google Analytics for Firebase →

0 Monthly active users	\$0 Estimated revenue
Crashes (30 days)	0 Users impacted
0 Instances	0

iOS Android Web

Discover Firebase

Analytics Authentication Database

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EMDeploy – Overview | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview Analytics DEVELOP Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance GROW Notifications Remote Config Dynamic Links EARN AdMob Spark Free \$0/month UPGRADE

Add Firebase to your iOS app

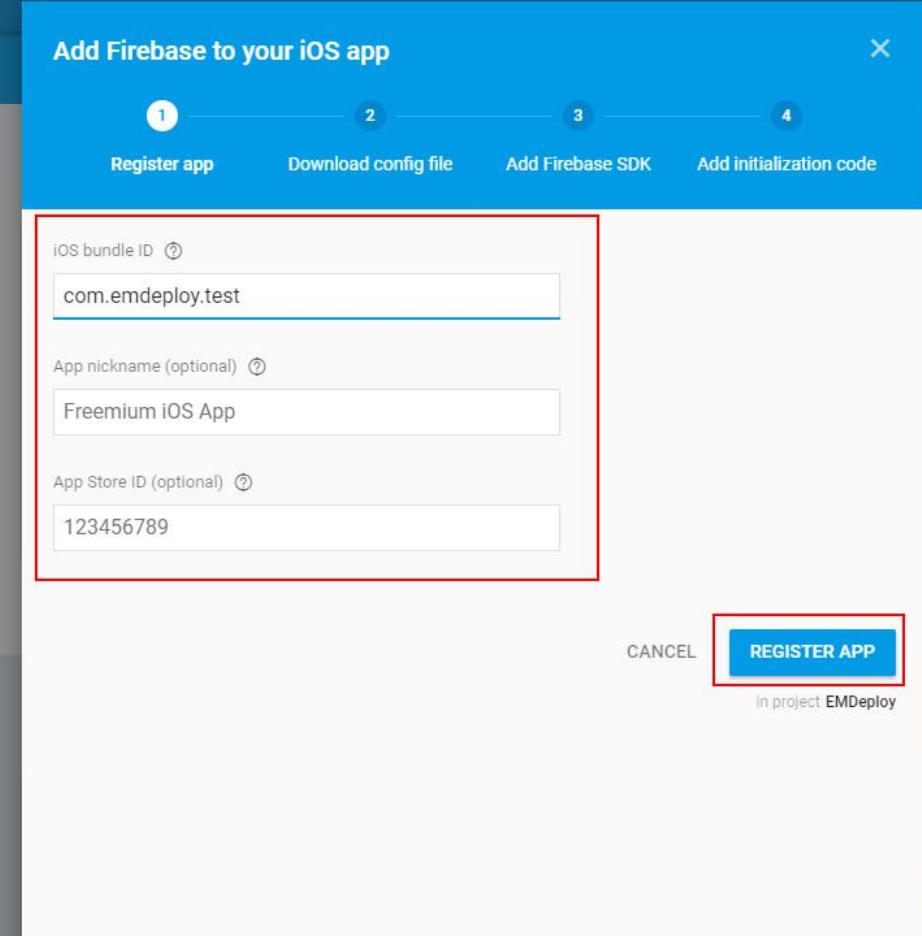
1 Register app 2 Download config file 3 Add Firebase SDK 4 Add initialization code

iOS bundle ID  App nickname (optional)  App Store ID (optional)

CANCEL REGISTER APP in project EMDeploy

Analytics Authentication Database

Type here to search 1:24 PM 7/17/2017



EMDeploy – Overview | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy Overview Analytics DEVELOP Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance GROW Notifications Remote Config Dynamic Links EARN AdMob Spark Free \$0/month UPGRADE

Add Firebase to your iOS app

1 Register app 2 Download config file 3 Add Firebase SDK 4 Add initialization code

Xcode instructions Alternatives: [Unity](#) [C++](#)

1. [Download GoogleService-Info.plist](#)

2. Move the GoogleService-Info.plist file you just downloaded into the root of your Xcode project and add it to all targets.

GoogleService-Info.plist

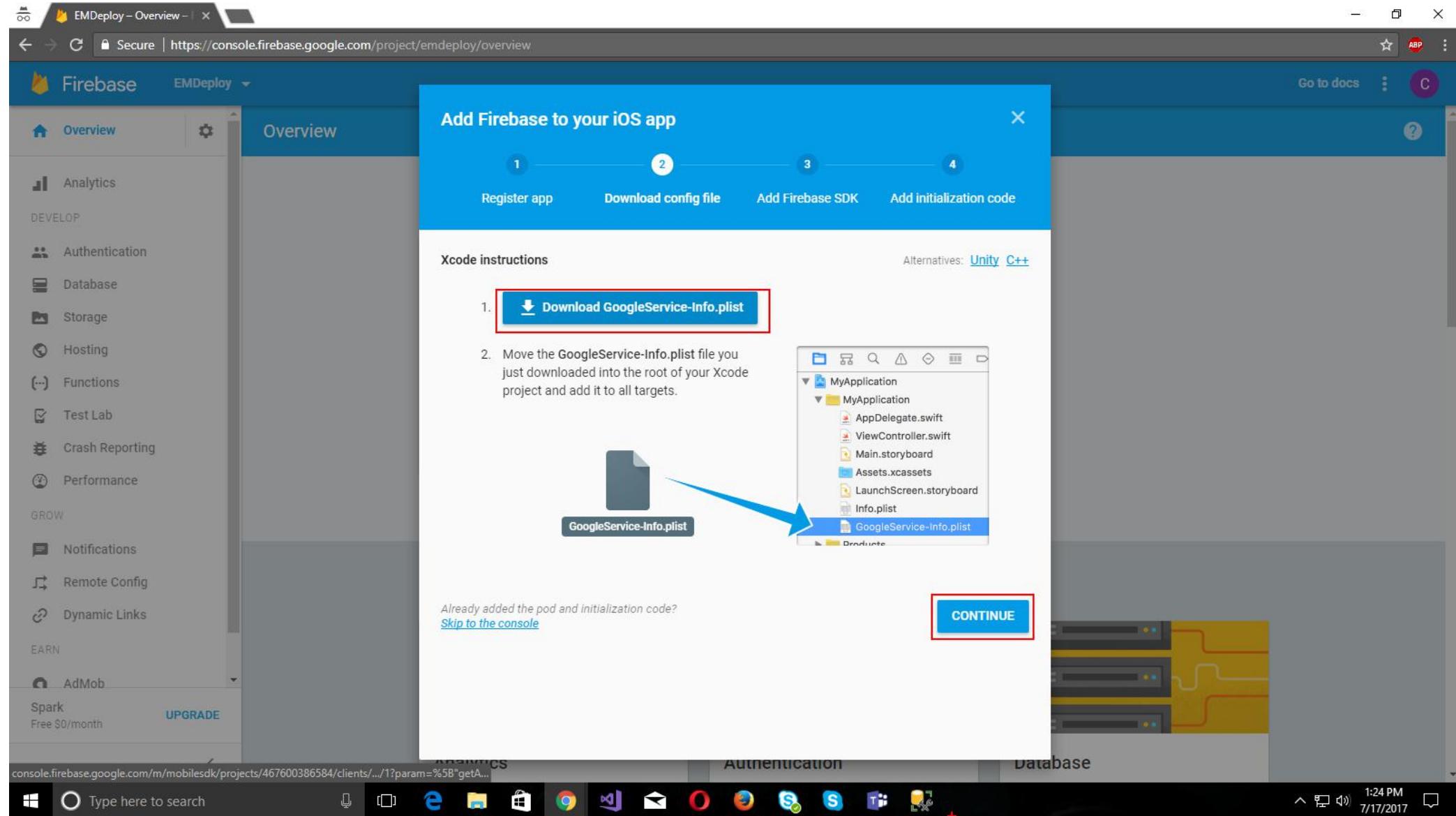
CONTINUE

Already added the pod and initialization code? [Skip to the console](#)

Analytics Authentication Database

console.firebaseio.google.com/m/mobilesdk/projects/467600386584/clients/.../1?param=%5B"getA...

Type here to search 1:24 PM 7/17/2017



EMDeploy – Overview | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview Analytics DEVELOP Authentication Database Storage Hosting Functions Test Lab Crash Reporting Performance GROW Notifications Remote Config Dynamic Links EARN AdMob Spark Free \$0/month UPGRADE

Analytics Authentication Database

### Add Firebase to your iOS app

1 Register app 2 Download config file 3 Add Firebase SDK 4 Add initialization code

CocoaPods instructions Alternatives: [Download ZIP](#) [Unity](#) [C++](#)

Google services use [CocoaPods](#) to install and manage dependencies. Open a terminal window and navigate to the location of the Xcode project for your app.

1. Create a Podfile if you don't have one: `$ pod init`

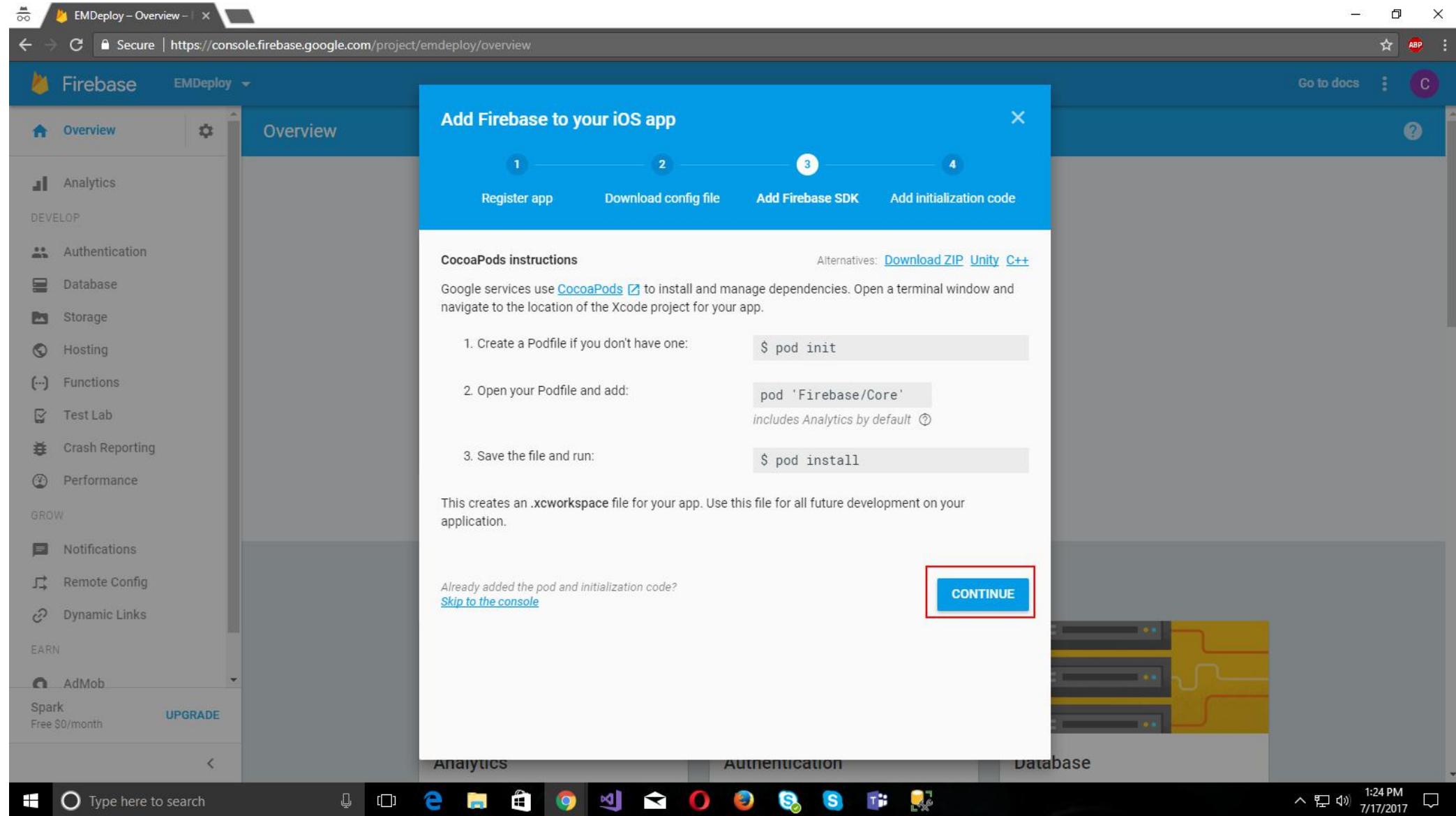
2. Open your Podfile and add: `pod 'Firebase/Core'`  
includes Analytics by default

3. Save the file and run: `$ pod install`

This creates an .xcworkspace file for your app. Use this file for all future development on your application.

Already added the pod and initialization code? [Skip to the console](#)

**CONTINUE**



EMDeploy – Overview | <https://console.firebaseio.google.com/project/emdeploy/overview>

**Add Firebase to your iOS app**

1 Register app 2 Download config file 3 Add Firebase SDK 4 Add initialization code

To connect Firebase when your app starts up, add the initialization code below to your main AppDelegate class.

Swift  Objective-C

```
import UIKit
import Firebase

@UIApplicationMain
class AppDelegate: UIResponder, UIApplicationDelegate {

    var window: UIWindow?

    func application(_ application: UIApplication,
                    didFinishLaunchingWithOptions launchOptions: [UIApplicationLaunchOptionsKey:
    -> Bool {
        FirebaseApp.configure()
        return true
    }
}
```

**FINISH**

Analytics Authentication Database

Windows Type here to search 1:25 PM 7/17/2017

EMDeploy – Overview | X

Secure | https://console.firebaseio.google.com/project/emdeploy/overview

Firebase EMDeploy

Overview

Analytics

DEVELOP

- Authentication
- Database
- Storage
- Hosting
- Functions
- Test Lab
- Crash Reporting
- Performance

GROW

- Notifications
- Remote Config
- Dynamic Links

EARN

- AdMob

Spark  
Free \$0/month

UPGRADE

EMDeploy mobile apps

com.emdeploy.test	com.emdeploy.test
Explore Google Analytics for Firebase →	Explore Google Analytics for Firebase →
0 Monthly active users	0 Monthly active users
\$0 Estimated revenue ⓘ	\$0 Estimated revenue ⓘ
Crashes (30 days)	
0 Users impacted	0 Instances

Add another app

Discover Firebase

Analytics

Authentication

Database

Type here to search

1:25 PM 7/17/2017

EMDeploy - Overview | Energy Management

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

## Energy Management

77°F 17 Jul 2017  
Scattered Showers



Jayesh Lunkad

Logout

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

Power BI Configuration(Organisation)

Power BI Configuration(Premise)

Power BI Configuration(Building)

Power BI Configuration(Feedback)

Azure ML Configuration

Firebase Configuration

Firebase Configuration

Legacy Server key

Auth Domain

Database Url

Storage Bucket

Messaging Sender Id

Messaging Receiver Id +

Add

Type here to search

1:44 PM 7/17/2017

# Azure Machine Learning Configuration

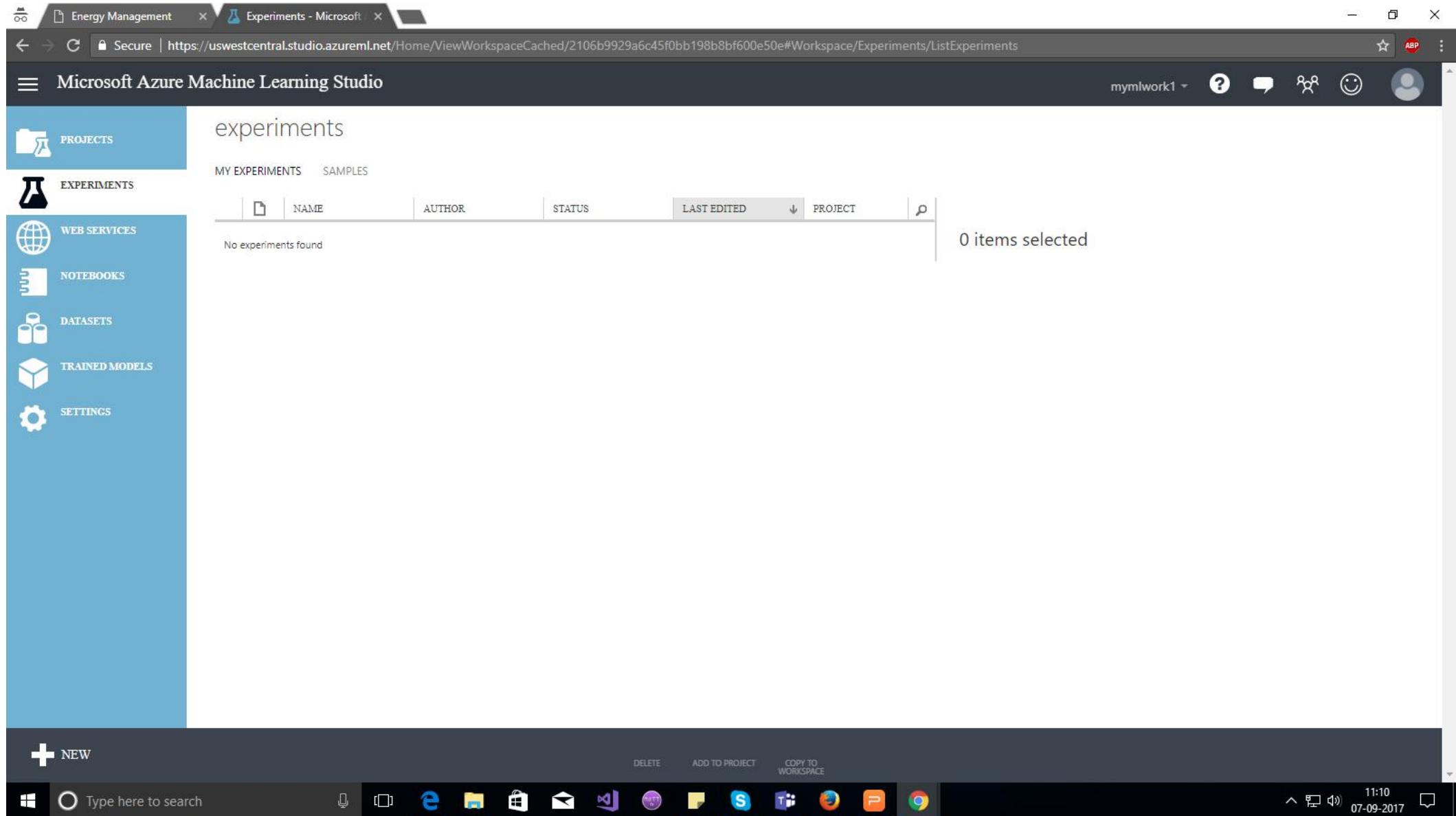
- Next Day Prediction Experiment

Gallery URL : <https://gallery.cortanaintelligence.com/Experiment/EM-NextDayPredict-72>

- Anomaly Detection Experiment

Gallery URL: <https://gallery.cortanaintelligence.com/Experiment/EM-Anomaly-72>

# Azure ML Configuration - Prediction Experiment



Microsoft Azure Machine Learning Studio

PROJECTS

EXPERIMENTS

WEB SERVICES

NOTEBOOKS

DATASETS

TRAINED MODELS

SETTINGS

experiments

MY EXPERIMENTS SAMPLES

NAME AUTHOR STATUS LAST EDITED PROJECT

No experiments found

0 items selected

+

NEW

DELETE ADD TO PROJECT COPY TO WORKSPACE

Type here to search

11:10 07-09-2017

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72

Secure | https://gallery.cortanaintelligence.com/Experiment/EM-NextDayPredict-72

## Cortana Intelligence Gallery

Browse all Industries Solutions Experiments Machine Learning APIs Custom Modules Learning More

EXPERIMENT

# EM\_NextDayPredict\_72

PT Prashant Tamb • September 7, 2017

Be the first to like.

Summary

This experiment is targeted at acquiring next day predicted data.

Description

This experiment is recommended to be used for Energy Management project created by Mobiliya in accordance with Microsoft, to get the predicted consumption by carefully analyzing the actual consumption.

After importing or getting this experiment from gallery, the user needs to update the source of data i.e. in this case Azure SQL database. The steps for the same are as below:

Step 1: Click on import data

Step 2: Notice a new blade(details box) on the right side of the screen.

Step 3: Update the credentials in the respective fields. The fields that need to be updated are:

Open in Studio

Add to Collection

1 view 0 download

ALGORITHMS

Linear Regression

Waiting for gallery.cortanaintelligence.com...

Type here to search

11:12 07-09-2017

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 | Experiments - Microsoft

Secure https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspace/Experiments>ListExperiments

Microsoft Azure Machine Learning Studio

PROJECTS EXPERIMENTS WEB SERVICES NOTEBOOKS DATASETS TRAINED MODELS SETTINGS

experiments

MY EXPERIMENTS SAMPLES

NAME AUTHOR STATUS LAST EDITED PROJECT

No experiments found

0 items selected

Copy experiment from Gallery

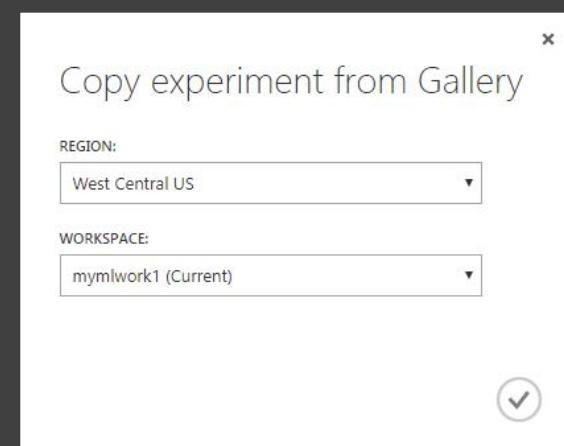
REGION: West Central US

WORKSPACE: mymlwork1 (Current)

NEW

DELETE ADD TO PROJECT COPY TO WORKSPACE

Type here to search 11:14 07-09-2017



Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 | Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspace/Experiments>ListExperiments

Microsoft Azure Machine Learning Studio

PROJECTS EXPERIMENTS WEB SERVICES NOTEBOOKS DATASETS TRAINED MODELS SETTINGS

experiments

MY EXPERIMENTS SAMPLES NAME AUTHOR STATUS LAST EDITED PROJECT

No experiments found

0 items selected

Copy experiment from Gallery

REGION: West Central US

WORKSPACE: mymlwork1 (Current)

+

DELETE ADD TO PROJECT COPY TO WORKSPACE

NEW

Type here to search

11:14 07-09-2017

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

### Microsoft Azure Machine Learning Studio

**EM\_NextDayPredict\_72**

In draft

Properties Project

**Experiment Properties**

- START TIME -
- END TIME -
- STATUS CODE InDraft
- STATUS DETAILS None

**Summary**

This experiment is targeted at acquiring next day predicted data.

**Description**

Enter the detailed description for your experiment.

**Quick Help**

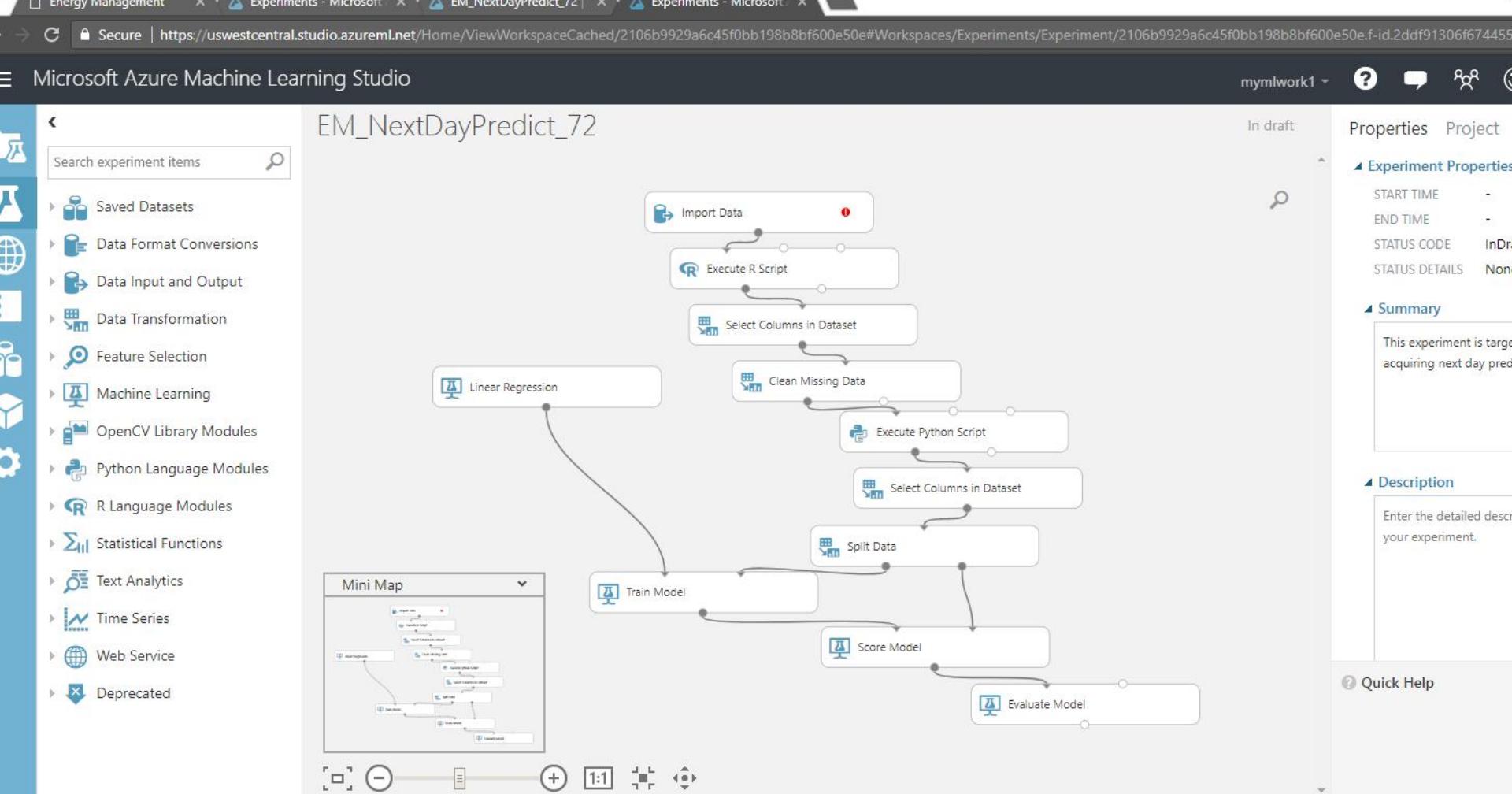
Import Data → Execute R Script → Select Columns in Dataset → Linear Regression → Clean Missing Data → Execute Python Script → Select Columns in Dataset → Split Data → Train Model → Score Model → Evaluate Model

Mini Map

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

11:15 07-09-2017



```

graph TD
    Import[Import Data] --> R[Execute R Script]
    R --> Columns1[Select Columns in Dataset]
    Columns1 --> LR[Linear Regression]
    LR --> Clean[Clean Missing Data]
    Clean --> Python[Execute Python Script]
    Python --> Columns2[Select Columns in Dataset]
    Columns2 --> Split[Split Data]
    Split --> Train[Train Model]
    Train --> Score[Score Model]
    Score --> Evaluate[Evaluate Model]

```

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 Experiments - Microsoft

Secure https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

### Microsoft Azure Machine Learning Studio

**EM\_NextDayPredict\_72**

In draft

Properties Project

**Experiment Properties**

- START TIME -
- END TIME -
- STATUS CODE InDraft
- STATUS DETAILS None

**Summary**

This experiment is targeted at acquiring next day predicted data.

**Description**

Enter the detailed description for your experiment.

**Quick Help**

**Diagram**

```

graph TD
    ImportData[Import Data] --> ExecuteRScript[Execute R Script]
    ExecuteRScript --> SelectColumns1[Select Columns in Dataset]
    SelectColumns1 --> CleanMissingData[Clean Missing Data]
    CleanMissingData --> ExecutePythonScript[Execute Python Script]
    ExecutePythonScript --> SelectColumns2[Select Columns in Dataset]
    SelectColumns2 --> SplitData[Split Data]
    SplitData --> TrainModel[Train Model]
    TrainModel --> ScoreModel[Score Model]
    ScoreModel --> EvaluateModel[Evaluate Model]
    EvaluateModel --> LinearRegression[Linear Regression]
    LinearRegression --> ImportData
    
```

**Mini Map**

**Toolbars**

- NEW
- RUN HISTORY
- SAVE
- SAVE AS
- DISCARD CHANGES
- RUN
- SET UP WEB SERVICE
- PUBLISH TO GALLERY

Type here to search

11:15 07-09-2017

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

### Microsoft Azure Machine Learning Studio

EM\_NextDayPredict\_72

In draft

Properties Project

**Import Data**

Launch Import Data Wizard

Data source: Azure SQL Database

Database server name: sqlserverlb7xzowqlst44.da

Database name: emtestdb

User name: adminuser

Password: (Redacted)

Accept any server c...

Database query:

```

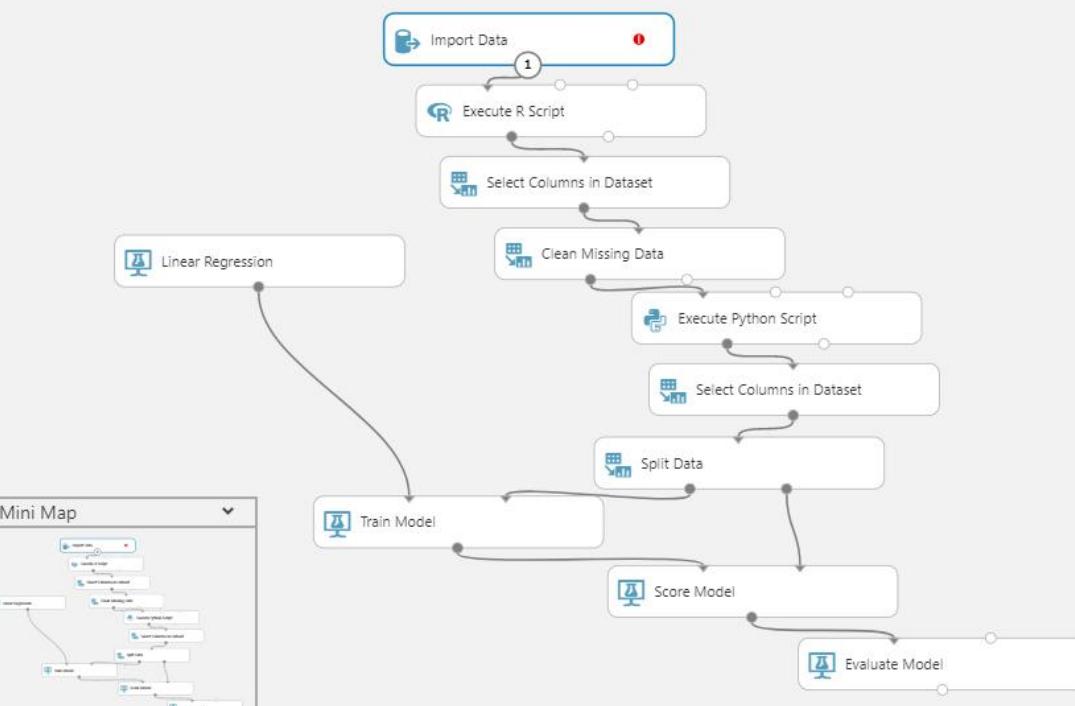
1 SELECT *
2 FROM [DailyConsu

```

Quick Help

Load data from sources such as the Web, Azure SQL database, Azure table, Hive table, Windows Azure BLOB, or Azure DocumentDB storage. Formerly known as Reader. (more help...)

Mini Map



```

graph TD
    Import[Import Data] --> R[Execute R Script]
    R --> Columns1[Select Columns in Dataset]
    Columns1 --> Clean[Clean Missing Data]
    Clean --> Python[Execute Python Script]
    Python --> Columns2[Select Columns in Dataset]
    Columns2 --> Split[Split Data]
    Split --> Train[Train Model]
    Train --> Score[Score Model]
    Score --> Evaluate[Evaluate Model]
    Evaluate --> Import

```

NEW

RUN HISTORY SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

11:15 07-09-2017

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/EMTestDeploy/providers/Microsoft.Sql/servers/sqlserverw4wpkpfjhw7vi/databases/emdata/overview

Microsoft Azure emtestdeploy > mymlwork1 > EMTestDeploy > emdata

emdata

SQL database

Search (Ctrl+ /)

Tools Copy Restore Export Set server firewall Delete

Resource group (change) EMTestDeploy

Status Online

Location West Central US

Subscription (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Server name sqlserverw4wpkpfjhw7vi.database.windows...

No elastic pool

Connection strings Show database connection strings

Pricing tier S2 Standard (50 DTUs)

Oldest restore point 2017-08-03 00:00 UTC

DTU

100%  
80%  
60%  
40%  
20%  
0%

10:30 AM 10:45 AM 11 AM 11:15 AM

DTU PERCENTAGE 0.04 %

Database size

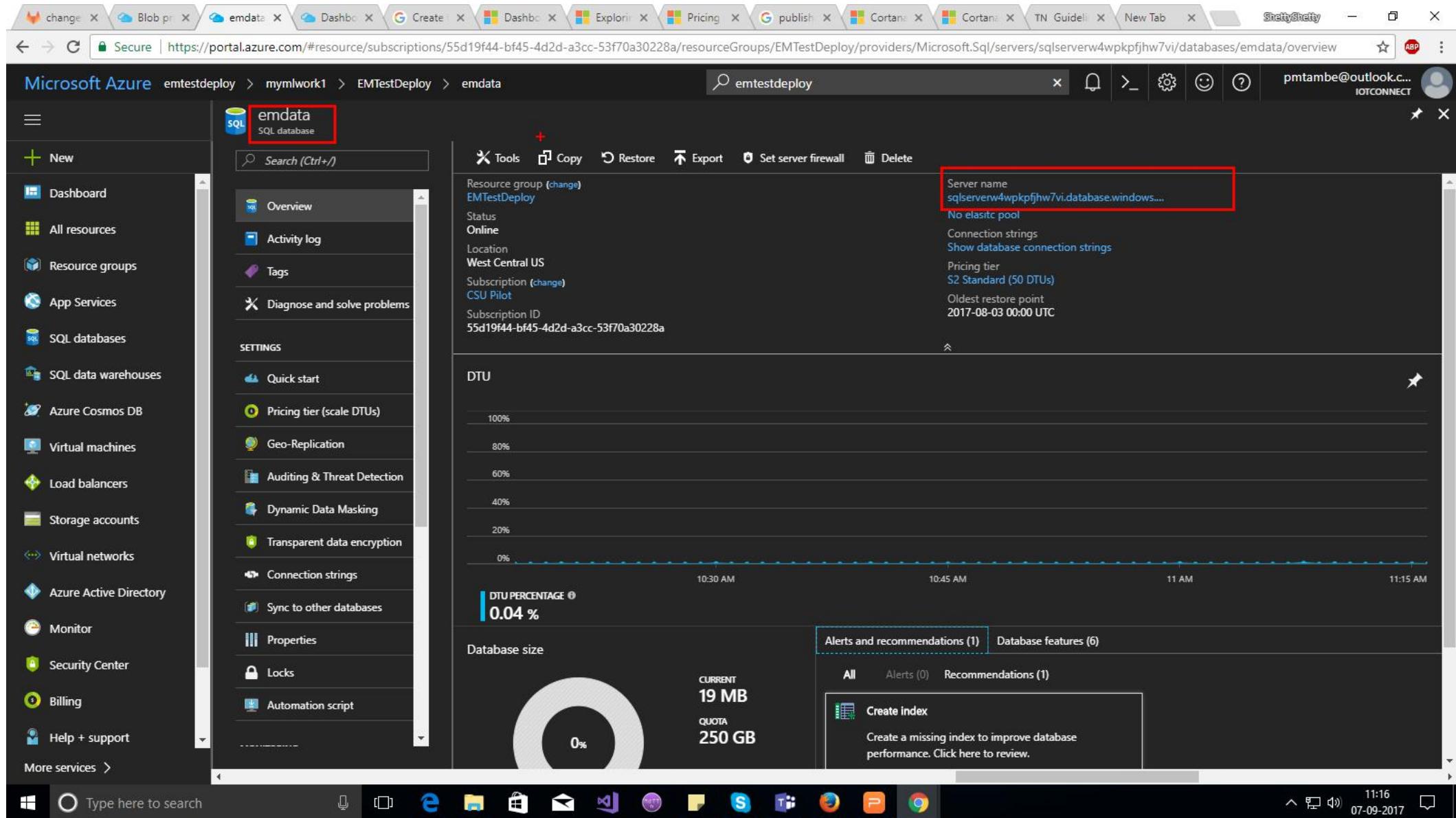
CURRENT 19 MB QUOTA 250 GB

Alerts and recommendations (1) Database features (6)

All Alerts (0) Recommendations (1)

Create index

Create a missing index to improve database performance. Click here to review.



Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

Microsoft Azure Machine Learning Studio

EM\_NextDayPredict\_72

In draft Draft saved at 11:21:13 AM

Properties Project Import Data

**Import Data**

Launch Import Data Wizard

Data source: Azure SQL Database

Database server name: sqlserverw4wpkpjhw7vi.d

Database name: emdata

User name: adminuser

Password: .....  Accept any server c...

Database query:

```

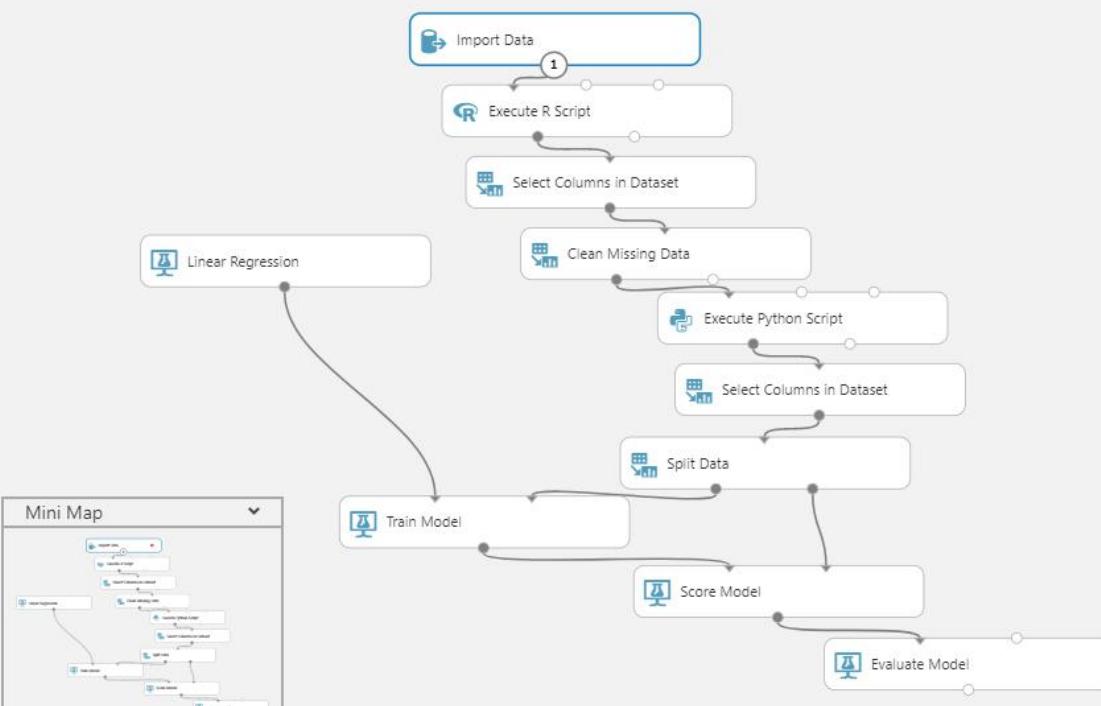
1 SELECT *
2 FROM [DailyConsu

```

Quick Help

Load data from sources such as the Web, Azure SQL database, Azure table, Hive table, Windows Azure BLOB, or Azure DocumentDB storage. Formerly known as Reader. (more help...)

Mini Map



```

graph TD
    Import[Import Data] --> R[Execute R Script]
    R --> Columns1[Select Columns in Dataset]
    Columns1 --> Clean[Clean Missing Data]
    Clean --> Python[Execute Python Script]
    Python --> Columns2[Select Columns in Dataset]
    Columns2 --> Split[Split Data]
    Split --> Train[Train Model]
    Train --> Score[Score Model]
    Score --> Evaluate[Evaluate Model]
    Evaluate --> Import

```

SAVE  

11:21 07-09-2017

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

Microsoft Azure Machine Learning Studio

mymlwork1 ? 🚶 🚧 😊 🙏

**EM\_NextDayPredict\_72**

In draft Draft saved at 11:22:15 AM

**Import Data**

Launch Import Data Wizard

Data source: Azure SQL Database

Database server name: sqlserverw4wpkpjhw7vi.d

Database name: emdata

User name: adminuser

Password: .....  Accept any server c...

Database query:

```

1 SELECT *
2 FROM [DailyConsu

```

**Properties Project**

**Import Data**

Load data from sources such as the Web, Azure SQL database, Azure table, Hive table, Windows Azure BLOB, or Azure DocumentDB storage. Formerly known as Reader. (more help...)

**Diagram**

```

graph TD
    ImportData[Import Data] --> ExecuteR[Execute R Script]
    ExecuteR --> SelectColumns1[Select Columns in Dataset]
    SelectColumns1 --> LinearRegression[Linear Regression]
    LinearRegression --> CleanMissingData[Clean Missing Data]
    CleanMissingData --> ExecutePython[Execute Python Script]
    ExecutePython --> SelectColumns2[Select Columns in Dataset]
    SelectColumns2 --> SplitData[Split Data]
    SplitData --> TrainModel[Train Model]
    TrainModel --> ScoreModel[Score Model]
    ScoreModel --> EvaluateModel[Evaluate Model]

```

**Mini Map**

**Toolbar**

- NEW
- RUN HISTORY
- SAVE
- SAVE AS
- DISCARD CHANGES
- RUN**
- SET UP WEB SERVICE
- PUBLISH TO GALLERY

Type here to search

11:22 07-09-2017

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

Microsoft Azure Machine Learning Studio

mymlwork1 ? 🚶 🚧 😊 🙏

**EM\_NextDayPredict\_72**

Properties Project

**Experiment Properties**

- START TIME 9/7/201...
- END TIME 9/7/201...
- STATUS CODE Finished
- STATUS DETAILS None

**Summary**

This experiment is targeted at acquiring next day predicted data.

**Description**

Enter the detailed description for your experiment.

**Quick Help**

Finished running ✓

Import Data → Execute R Script → Select Columns in Dataset → Linear Regression → Clean Missing Data → Execute Python Script → Select Columns in Dataset → Split Data → Train Model → Score Model → Evaluate Model

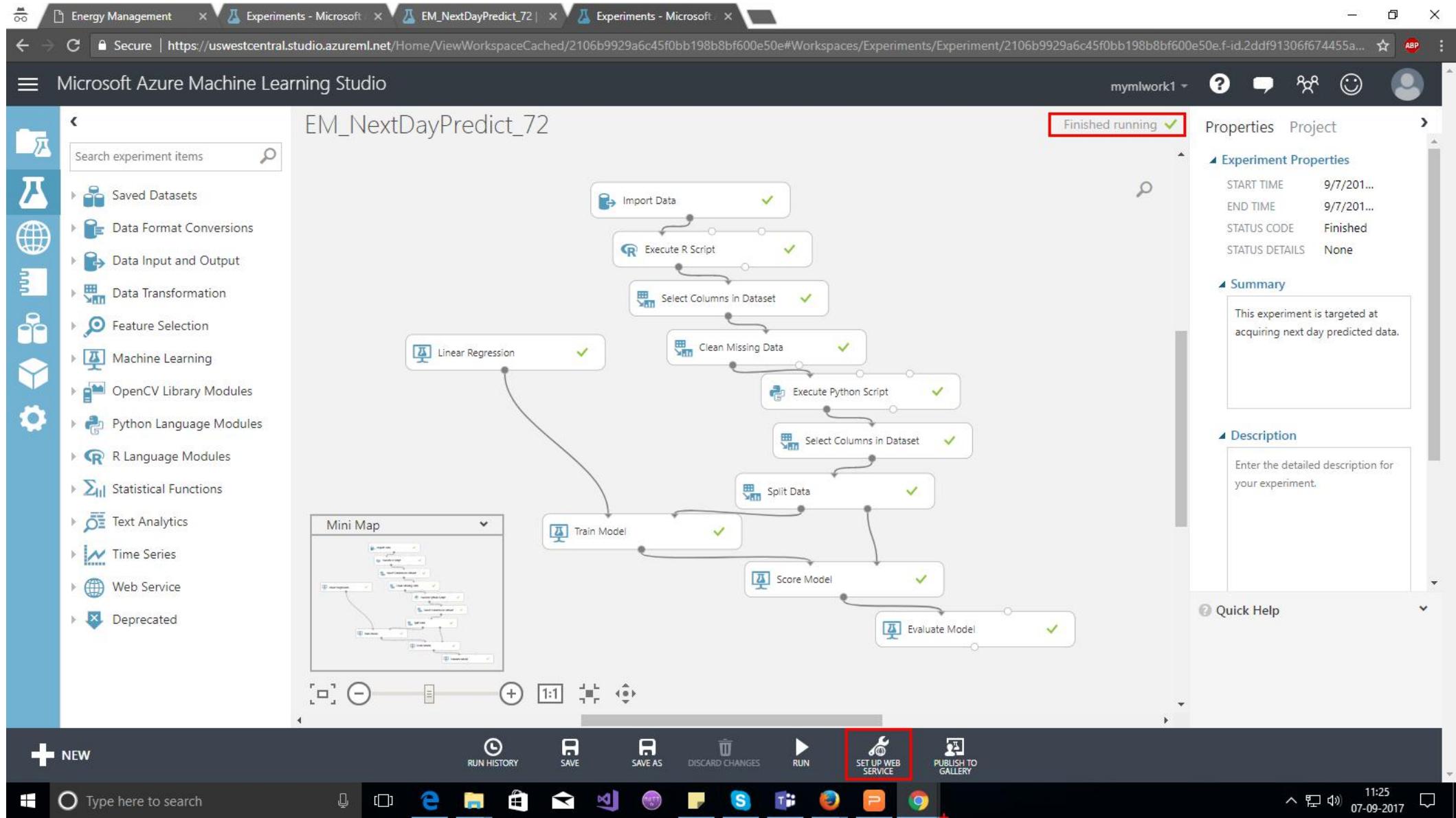
Mini Map

+

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

11:25 07-09-2017



Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

Microsoft Azure Machine Learning Studio

mymlwork1 ? 🚶 🚧 😊 🙏

EM\_NextDayPredict\_72

Finished running ✓

Properties Project

**Experiment Properties**

- START TIME 9/7/201...
- END TIME 9/7/201...
- STATUS CODE Finished
- STATUS DETAILS None

**Summary**

This experiment is targeted at acquiring next day predicted data.

**Description**

Enter the detailed description for your experiment.

**Quick Help**

Import Data → Execute R Script → Select Columns in Dataset → Linear Regression → Clean Missing Data → Execute Python Script → Select Columns in Dataset → Split Data → Train Model → Score Model → Evaluate Model

Mini Map

Predictive Web Service [Recommended]

Retraining Web Service

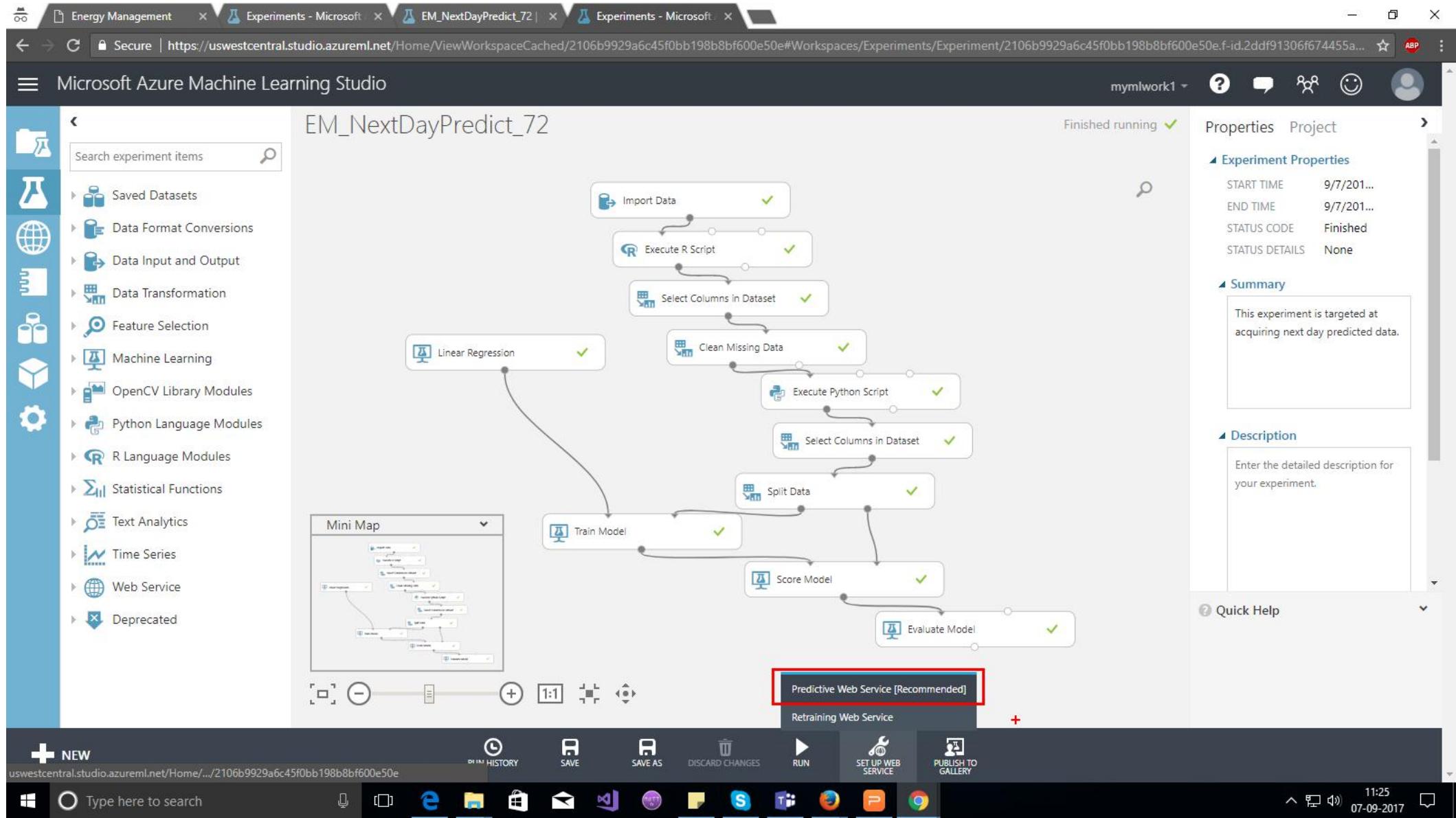
+

NEW uswestcentral.studio.azureml.net/Home/.../2106b9929a6c45f0bb198b8bf600e50e

HISTORY SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

11:25 07-09-2017



Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 | Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

### Microsoft Azure Machine Learning Studio

mymlwork1 ? 🚶 🚧 😊 🙏

**Training experiment** Predictive experiment **EM\_NextDayPredict\_72 [Predictive Exp.]** In draft Draft saved at 11:26:00 AM

Properties Project Experiment Properties

START TIME 9/7/201...  
END TIME 9/7/201...  
STATUS CODE InDraft  
STATUS DETAILS None

Summary This experiment is targeted at acquiring next day predicted data.

Description Enter the detailed description for your experiment.

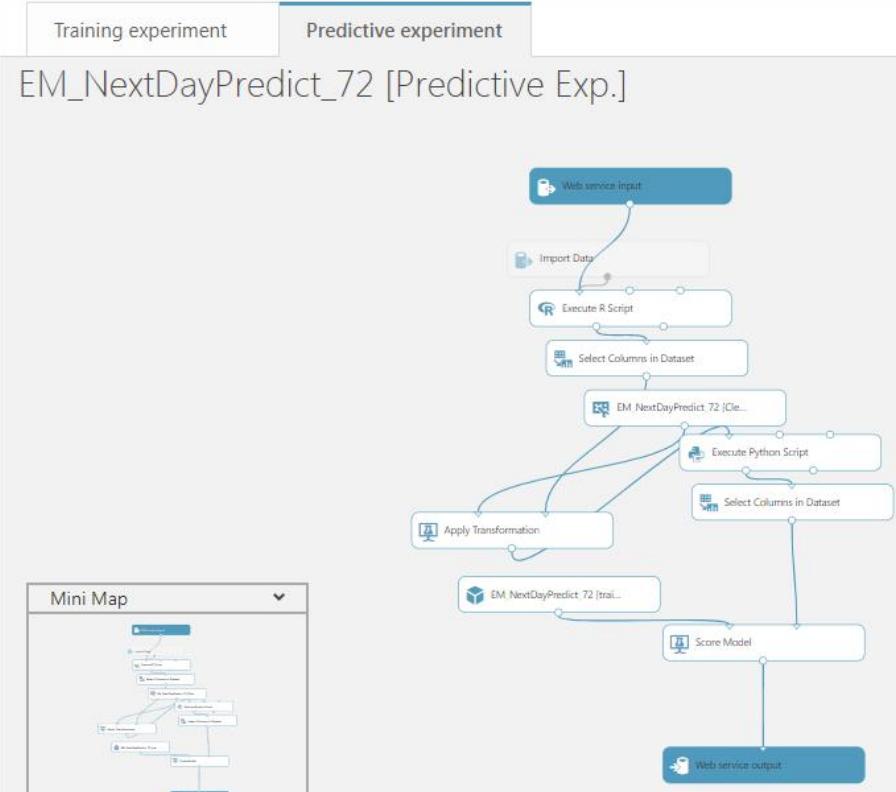
Quick Help

Creating predictive experiment

DETAILS ⓘ CLOSE ✎

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN DEPLOY WEB SERVICE PUBLISH TO GALLERY

Type here to search 11:26 07-09-2017



```

graph TD
    WSInput[Web service input] --> Import[Import Data]
    Import --> RScript[Execute R Script]
    RScript --> Select1[Select Columns in Dataset]
    Select1 --> Cle[EM NextDayPredict_72 [Cle...]]
    Cle --> Transformation[Apply Transformation]
    Cle --> Train[EM NextDayPredict_72 [train...]]
    Cle --> Score[Score Model]
    Transformation --> Score
    Train --> Score
    Score --> WSOutput[Web service output]
  
```

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 | Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.2ddf91306f674455a... ABP

### Microsoft Azure Machine Learning Studio

mymlwork1 ? 🚶 🚧 😊 🙏

**Training experiment** Predictive experiment **EM\_NextDayPredict\_72 [Predictive Exp.]** In draft Draft saved at 11:26:00 AM

Properties Project Experiment Properties

START TIME 9/7/201...  
END TIME 9/7/201...  
STATUS CODE InDraft  
STATUS DETAILS None

Summary This experiment is targeted at acquiring next day predicted data.

Description Enter the detailed description for your experiment.

Quick Help

**Experiment Flow:**

```

graph TD
    WSInput[Web service input] --> ImportData[Import Data]
    ImportData --> RScript[Execute R Script]
    RScript --> SelectC1[Select Columns in Dataset]
    SelectC1 --> Model1[EM NextDayPredict_72 [Cle...]
    Model1 --> PythonScript[Execute Python Script]
    PythonScript --> SelectC2[Select Columns in Dataset]
    SelectC2 --> Transformation[Apply Transformation]
    Transformation --> Model2[EM NextDayPredict_72 [tra...]
    Model2 --> ScoreModel[Score Model]
    ScoreModel --> WebOutput[Web service output]
  
```

**Mini Map:**

**Toolbar:**

- NEW
- RUN HISTORY
- SAVE
- SAVE AS
- DISCARD CHANGES
- RUN**
- DEPLOY WEB SERVICE
- PUBLISH TO GALLERY

Type here to search

11:26 07-09-2017

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 | Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.59af4bc2dc4842149... ABP

Microsoft Azure Machine Learning Studio mymlwork1 ? 🚶 🚧 😊 🙏

**Training experiment** Predictive experiment **EM\_NextDayPredict\_72 [Predictive Exp.]** **Finished running ✓**

Properties Project Experiment Properties Summary Description Quick Help

Experiment Properties:

- START TIME: 9/7/201...
- END TIME: 9/7/201...
- STATUS CODE: Finished
- STATUS DETAILS: None

Summary:

This experiment is targeted at acquiring next day predicted data.

Description:

Enter the detailed description for your experiment.

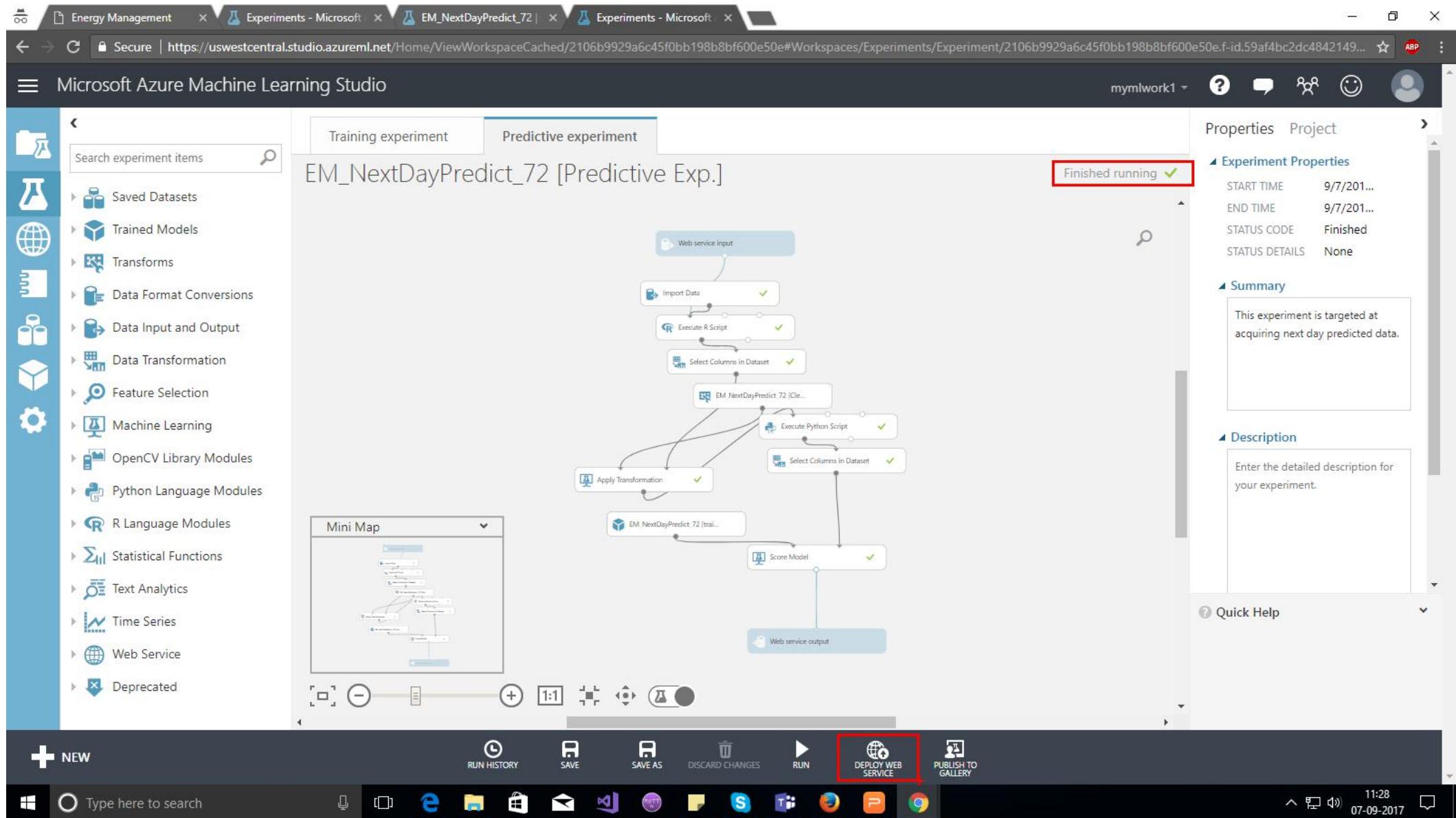
Web service input → Import Data → Execute R Script → Select Columns in Dataset → **EM NextDayPredict 72 [Cle...** → Execute Python Script → Select Columns in Dataset → Apply Transformation → **EM NextDayPredict 72 [trai...** → Score Model → Web service output

Mini Map

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN DEPLOY WEB SERVICE PUBLISH TO GALLERY

Type here to search

11:28 07-09-2017



Energy Management   Web services - Microsoft   Request Response API Dev ...   Experiments - Microsoft   Experiments - Microsoft   Experiments - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.d3546788b2584a5b... ABP

### Microsoft Azure Machine Learning Studio

mymlwork1 ? 🔍 🌐 🌐 🌐

**Predictive experiment**

EM\_NextDayPredict\_72 [Predictive Exp.]   Finished running ✓

Search experiment items 🔎

- Saved Datasets
- Trained Models
- Transforms
- Data Format Conversions
- Data Input and Output
- Data Transformation
- Feature Selection
- Machine Learning
- OpenCV Library Modules
- Python Language Modules
- R Language Modules
- Statistical Functions
- Text Analytics
- Time Series
- Web Service

Training experiment

Web service input → Import Data → Execute R Script → Select Columns in Dataset → EM NextDayPredict\_72 [Cle...] → Execute Python Script → Select Columns in Dataset → Apply Transformation → Score Model → Web service output

Mini Map

Creating predictive experiment

Deploy Web Service [Classic] (highlighted)

Deploy Web Service [New] Preview

DETAILS ⓘ CLOSE ✕

NEW   https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#

SAVE   SAVE AS   DISCARD CHANGES   RUN   DEPLOY WEB SERVICE   PUBLISH TO GALLERY

Type here to search

12:10 07-09-2017

Energy Management   Web services - Microsoft   Request Response API Dev   Experiments - Microsoft   EM\_NextDayPredict\_72   Web services - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/WebServiceGroups/WebServiceGroup/8da991f169944f60852f39dc663420d2/dashboard

## Microsoft Azure Machine Learning Studio

### em\_nextdaypredict\_72 [predictive exp.]

DASHBOARD   CONFIGURATION

General   New Web Services Experience [preview](#)

Published experiment  
View snapshot   View latest

Description  
No description provided for this web service.

API key  
Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYiRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==

Default Endpoint

API HELP PAGE	TEST	APPS	LAST UPDATED
REQUEST/RESPONSE	Test <a href="#">preview</a>	Excel 2013 or later   Excel 2010 or earlier workbook	9/7/2017 12:10:23 PM
BATCH EXECUTION	Test <a href="#">preview</a>	Excel 2013 or later workbook	9/7/2017 12:10:23 PM

Additional endpoints  
Number of additional endpoints created for this web service: 0  
[Manage endpoints](#) [preview](#)

Creating predictive experiment

DETAILS  CLOSE 

 NEW 

Type here to search                      12:10 07-09-2017

Energy Management   Web services - Microsoft   Request Response API Dev   Experiments - Microsoft   EM\_NextDayPredict\_72   Web services - Microsoft

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/WebServiceGroups/WebServiceGroup/8da991f169944f60852f39dc663420d2/dashboard

## Microsoft Azure Machine Learning Studio

### em\_nextdaypredict\_72 [predictive exp.]

DASHBOARD   CONFIGURATION

General   New Web Services Experience [preview](#)

Published experiment  
View snapshot   View latest

Description  
No description provided for this web service.

API key  
`Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYiRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==`

Default Endpoint

API HELP PAGE	TEST	APPS	LAST UPDATED
REQUEST/RESPONSE	<a href="#">Test</a> <a href="#">Test preview</a>	 Excel 2013 or later    Excel 2010 or earlier workbook	9/7/2017 12:10:23 PM
BATCH EXECUTION	<a href="#">Test</a> <a href="#">preview</a>	 Excel 2013 or later workbook	9/7/2017 12:10:23 PM

Additional endpoints  
Number of additional endpoints created for this web service: 0  
[Manage endpoints](#) [preview](#)

+ 

✓ Creating predictive experiment   DETAILS  CLOSE 

 NEW    DELETE   1 

Type here to search   12:10 07-09-2017

Energy Management Experiments - Microsoft EM\_NextDayPredict\_72 | Experiments - Microsoft Web Services Management

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

80°F 07 Sep 2017  
Scattered Thunderstorms

## Mobiliya Energy Management

Jayesh Lunkad

Logout

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

### Power BI Configuration(Premise)

### Power BI Configuration(Building)

### Power BI Configuration(Feedback)

### Azure ML Configuration

Azure ML Configuration

Azure MI AnomalyDetection Api key

Azure MI AnomalyDetection Api Url

Azure MI DailyPrediction Api key (highlighted with a red border)

Azure MI DailyPrediction Api Url

Add

+ (button)

### Firebase Configuration

### User Configuration

### Organization Configuration

### Room Configuration

Type here to search

11:33 07-09-2017

Skype: Ravindra Chhabra is online

Energy Management | Web services - Microsoft | Request Response API Dev | Experiments - Microsoft | EM\_NextDayPredict\_72 | Web services - Microsoft | Web Services Management

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/WebServiceGroups/WebServiceGroup/8da991f169944f60852f39dc663420d2/dashboard

## Microsoft Azure Machine Learning Studio

### em\_nextdaypredict\_72 [predictive exp.]

DASHBOARD CONFIGURATION

General [New Web Services Experience preview](#)

Published experiment

[View snapshot](#) [View latest](#)

Description

No description provided for this web service.

API key

```
Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYiRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==
```

Default Endpoint

API HELP PAGE	TEST	APPS	LAST UPDATED
<a href="#">REQUEST/RESPONSE</a>	<a href="#">Test</a> <a href="#">Test preview</a>	 Excel 2013 or later    Excel 2010 or earlier workbook	9/7/2017 12:10:23 PM
<a href="#">BATCH EXECUTION</a>	<a href="#">Test</a> <a href="#">Test preview</a>	 Excel 2013 or later workbook	9/7/2017 12:10:23 PM

Additional endpoints

Number of additional endpoints created for this web service: 0

[Manage endpoints](#) [preview](#) +

Creating predictive experiment

DETAILS  CLOSE 

 NEW uswestcentral.studio.azureml.net/apihelp/worksaces/.../score

DELETE

Type here to search 12:11 07-09-2017

Energy Management | Web services - Microsoft | Request Response API Doc | Experiments - Microsoft | EM\_NextDayPredict\_72 | Web services - Microsoft | Request Response API Doc |   
C | Secure | https://uswestcentral.studio.azureml.net/apihelp/workspaces/2106b9929a6c45f0bb198b8bf600e50e/webservices/8da991f169944f60852f39dc663420d2/endpoints/8e2c2519d81848218b1e87fc4b975f97/score | ABP | ...

# Request Response API Documentation for EM\_NextDayPredict\_72 [Predictive Exp.]

Updated: 09/07/2017 06:40

No description provided for this web service.

- [Previous version of this API](#)
- [Submit a request](#)
- [Input Parameters](#)
- [Output Parameters](#)
- [Web App Template for RRS](#)
- [Sample Code](#)
- [API Swagger Document](#) ?
- [Endpoint Management Swagger Document](#) ?

## Request

Method	Request URI	HTTP Version
POST	<code>https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/8e2c2519d81848218b1e87fc4b975f97/execute?api-version=2.0&amp;details=true</code>	HTTP/1.1

Note: You may omit the **details** parameter from the query string. This would cause **ColumnTypes** to be omitted from the output

## Request Headers

Request Header	Description
<code>Authorization:Bearer abc123</code>	Required. Pass the API Key here. Obtain this key from the publisher of the API.



Energy Management Experiments - Microsoft Request Response API Dev Experiments - Microsoft EM\_NextDayPredict.72 Web services - Microsoft Request Response API Dev

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

80°F 07 Sep 2017  
Scattered Thunderstorms

## Mobiliya Energy Management



Jayesh Lunkad

Logout

DASHBOARD

REPORTS

CONFIGURATION

ALERTS

FEEDBACK

### Power BI Configuration(Premise)

### Power BI Configuration(Building)

### Power BI Configuration(Feedback)

### Azure ML Configuration

Azure ML Configuration

Azure ML AnomalyDetection Api key

Azure ML AnomalyDetection Api Url

Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYlRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==

https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/8e2c2519d81848218b1e87fc4b975f97/execute?api

Add

### Firebase Configuration

### User Configuration

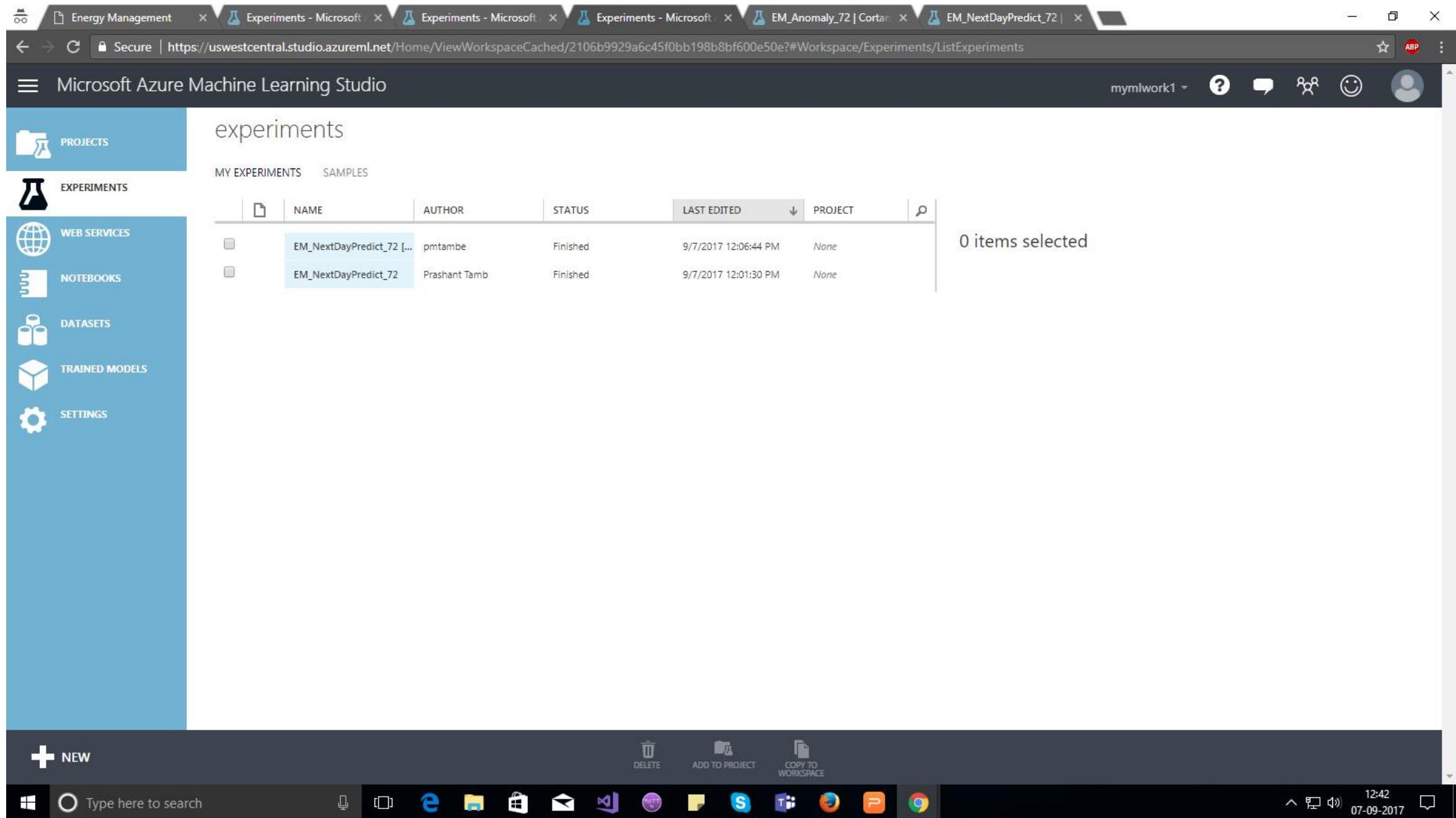
### Organization Configuration

### Room Configuration

Type here to search

12:23 07-09-2017

# Azure ML Configuration - Anomaly Experiment



The screenshot shows the Microsoft Azure Machine Learning Studio interface. The left sidebar has a blue header "PROJECTS" and a list of items: EXPERIMENTS (selected), WEB SERVICES, NOTEBOOKS, DATASETS, TRAINED MODELS, and SETTINGS. The main area is titled "experiments" and shows a table of "MY EXPERIMENTS". The table has columns: NAME, AUTHOR, STATUS, LAST EDITED, PROJECT, and a search icon. Two experiments are listed:

	NAME	AUTHOR	STATUS	LAST EDITED	PROJECT
<input type="checkbox"/>	EM_NextDayPredict_72 [...]	pmtambe	Finished	9/7/2017 12:06:44 PM	None
<input type="checkbox"/>	EM_NextDayPredict_72	Prashant Tamb	Finished	9/7/2017 12:01:30 PM	None

Below the table, it says "0 items selected". At the bottom, there are buttons for "+ NEW", "DELETE", "ADD TO PROJECT", and "COPY TO WORKSPACE". The taskbar at the bottom shows various icons and the date/time "12:42 07-09-2017".

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Intelligence Gallery EM\_NextDayPredict\_72 | Cortana Intelligence Gallery

Secure | https://gallery.cortanaintelligence.com/Experiment/EM-Anomaly-72

## Cortana Intelligence Gallery

Browse all Industries Solutions Experiments Machine Learning APIs Custom Modules Learning More

Sign in

EXPERIMENT

 EM\_Anomaly\_72

PT Prashant Tamb September 7, 2017

Be the first to like.

Summary

This experiment is targeted at finding the Anomalies in the data

Description

This experiment is intended to use with Energy Management product created by Mobiliya in accordance with Microsoft and helps to find the anomalies in the data and bring it to the user's concern.

After importing or getting this experiment from gallery, the user needs to update the source of data i.e. in this case Azure SQL database. The steps for the same are as below:

Step 1: Click on import data Step 2: Notice a new blade(details box) on the right side of the screen. Step 3: Update the credentials in the respective fields. The fields that need to be updated are:

- Database Server Name
- Database Name
- User name (of Azure SQL server user)
- Password (of Azure SQL server user)



Open in Studio

+ Add to Collection

0 view 0 download

ALGORITHMS

PCA-Based Anomaly Detection

Type here to search

12:42 07-09-2017

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 |

Secure | https://studio.azureml.net/Home/ViewWorkspaceCached/b362e6b728464c90b2ba0efeb619cd05#Workspace/Experiments>ListExperiments

Microsoft Azure Machine Learning Studio

Prashant-Workspace ? 🚶 🚧 😊 🙏

PROJECTS EXPERIMENTS WEB SERVICES NOTEBOOKS DATASETS TRAINED MODELS SETTINGS

experiments

MY EXPERIMENTS SAMPLES

	NAME	AUTHOR	STATUS	LAST EDITED	PROJECT
EM_Anomaly_72	pmtambe	Finished	9/7/2017 12:34:25 PM	None	
EM_NextDayPredict_72	pmtambe				
S3_MEPC_JCI_Experiment...	pmtambe				
S3_MEPC_JCI_Experiment...	pmtambe				
S3_MEPC_JCI_Experiment...	pmtambe				
Experiment created on 0...	anagha.bharadwaj				
Experiment created on 0...	anagha.bharadwaj				
Important_Features_S2	anagha.bharadwaj				
Experiment created on 3...	anagha.bharadwaj				
S3_MEPC_JCI_Experiment...	pmtambe				
AIC_JCI_S2	anagha.bharadwaj				
AIC_Merge_S2	anagha.bharadwaj				
AIC_MEPC_S2	anagha.bharadwaj	Finished	8/30/2017 11:51:25 AM	None	
S3_MEPC_JCI_Experiment	pmtambe	Finished	8/29/2017 6:17:47 PM	None*	
S3_JCI	pmtambe	Finished	8/29/2017 5:08:02 PM	None	
S3_MEPC_JCI	pmtambe	Finished	8/29/2017 5:07:38 PM	None	
S3_MEPC	pmtambe	Finished	8/29/2017 4:42:38 PM	None	
Week39_CSU_Model	pmtambe	Failed	8/24/2017 12:53:11 PM	None	

Copy experiment from Gallery

REGION: West Central US

WORKSPACE: mymlwork1

DELETE ADD TO PROJECT COPY TO WORKSPACE

Type here to search 12:43 07-09-2017

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 | Cortana

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.e9f7e1420b024801a... ABP

### Microsoft Azure Machine Learning Studio

EM\_Anomaly\_72

In draft

Properties Project

**Experiment Properties**

- START TIME -
- END TIME -
- STATUS CODE InDraft
- STATUS DETAILS None

**Summary**

This experiment is targeted at finding the Anomalies in the data

**Description**

Enter the detailed description for your experiment.

**Quick Help**

Import Data → Apply SQL Transformation → Edit Metadata → PCA-Based Anomaly Detect... → Train Anomaly Detection M... → Score Model

Mini Map

```

graph TD
    Import[Import Data] --> SQL[Apply SQL Transformation]
    SQL --> Edit1[Edit Metadata]
    Edit1 --> Detect[PCA-Based Anomaly Detect...]
    Detect --> Train[Train Anomaly Detection M...]
    Train --> Score[Score Model]
    
```

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

12:44 07-09-2017

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 | Cortana

Secure https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.e9f7e1420b024801a... ABP

### Microsoft Azure Machine Learning Studio

EM\_Anomaly\_72

In draft

Properties Project

**Experiment Properties**

- START TIME -
- END TIME -
- STATUS CODE InDraft
- STATUS DETAILS None

**Summary**

This experiment is targeted at finding the Anomalies in the data

**Description**

Enter the detailed description for your experiment.

**Quick Help**

Import Data

Apply SQL Transformation

Edit Metadata

PCA-Based Anomaly Detect...

Train Anomaly Detection M...

Score Model

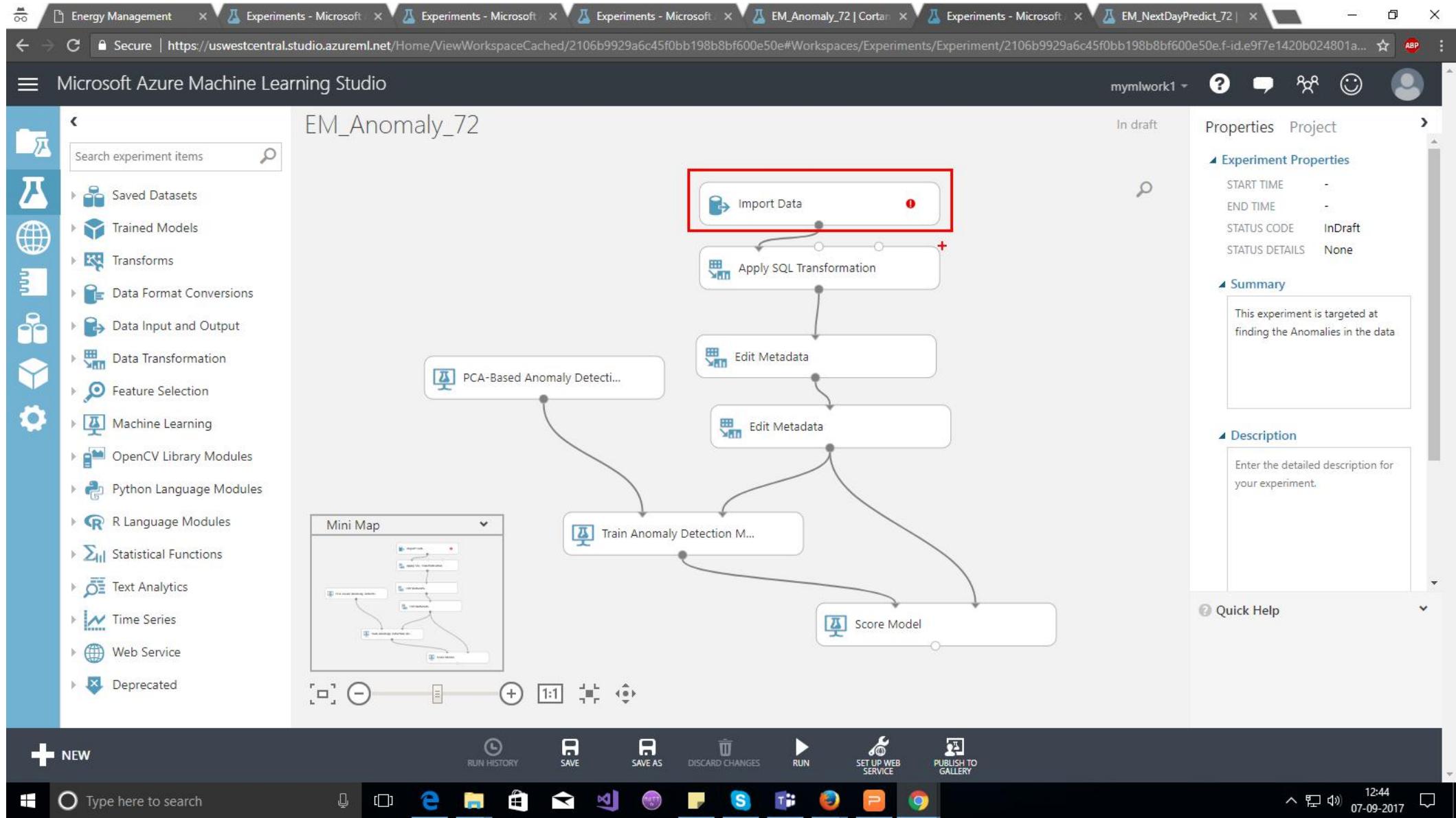
Mini Map

NEW

RUN HISTORY SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

12:44 07-09-2017



Microsoft Azure Machine Learning Studio

EM\_Anomaly\_72

In draft

Properties Project

**Import Data**

Launch Import Data Wizard

Data source: Azure SQL Database

Database server name: sqlserver7oyrxcjx5pag.da

Database name: emtestdb

User name: adminuser

Password: (redacted)

Accept any server certificate? (unchecked)

Database query:

```

1 SELECT *
2 FROM [LiveData]
  
```

Quick Help

Load data from sources such as the Web, Azure SQL database, Azure table, Hive table, Windows Azure BLOB, or Azure DocumentDB storage. Formerly known as Reader.

(more help...)

Import Data → Apply SQL Transformation → Edit Metadata → PCA-Based Anomaly Detect... → Train Anomaly Detection M... → Score Model

Import Data → Apply SQL Transformation → Edit Metadata → Train Anomaly Detection M... → Score Model

PCA-Based Anomaly Detect... → Train Anomaly Detection M... → Score Model

Train Anomaly Detection M... → Score Model

Score Model

Mini Map

NEW

RUN HISTORY

SAVE

SAVE AS

DISCARD CHANGES

RUN

SET UP WEB SERVICE

PUBLISH TO GALLERY

Type here to search

12:44 07-09-2017

Secure | https://portal.azure.com/#resource/subscriptions/55d19f44-bf45-4d2d-a3cc-53f70a30228a/resourceGroups/EMTestDeploy/providers/Microsoft.Sql/servers/sqlserverw4wpkpfjhw7vi/databases/emdata/overview

# Microsoft Azure emtestdeploy > mymlwork1 > EMTestDeploy > emdata

emdata

SQL database

Search (Ctrl+ /)

Tools Copy Restore Export Set server firewall Delete

Resource group (change) EMTestDeploy

Status Online

Location West Central US

Subscription (change) CSU Pilot

Subscription ID 55d19f44-bf45-4d2d-a3cc-53f70a30228a

Server name sqlserverw4wpkpfjhw7vi.database.windows...

No elastic pool

Connection strings Show database connection strings

Pricing tier S2 Standard (50 DTUs)

Oldest restore point 2017-08-03 00:00 UTC

DTU

100%  
80%  
60%  
40%  
20%  
0%

10:30 AM 10:45 AM 11 AM 11:15 AM

DTU PERCENTAGE 0.04 %

Database size

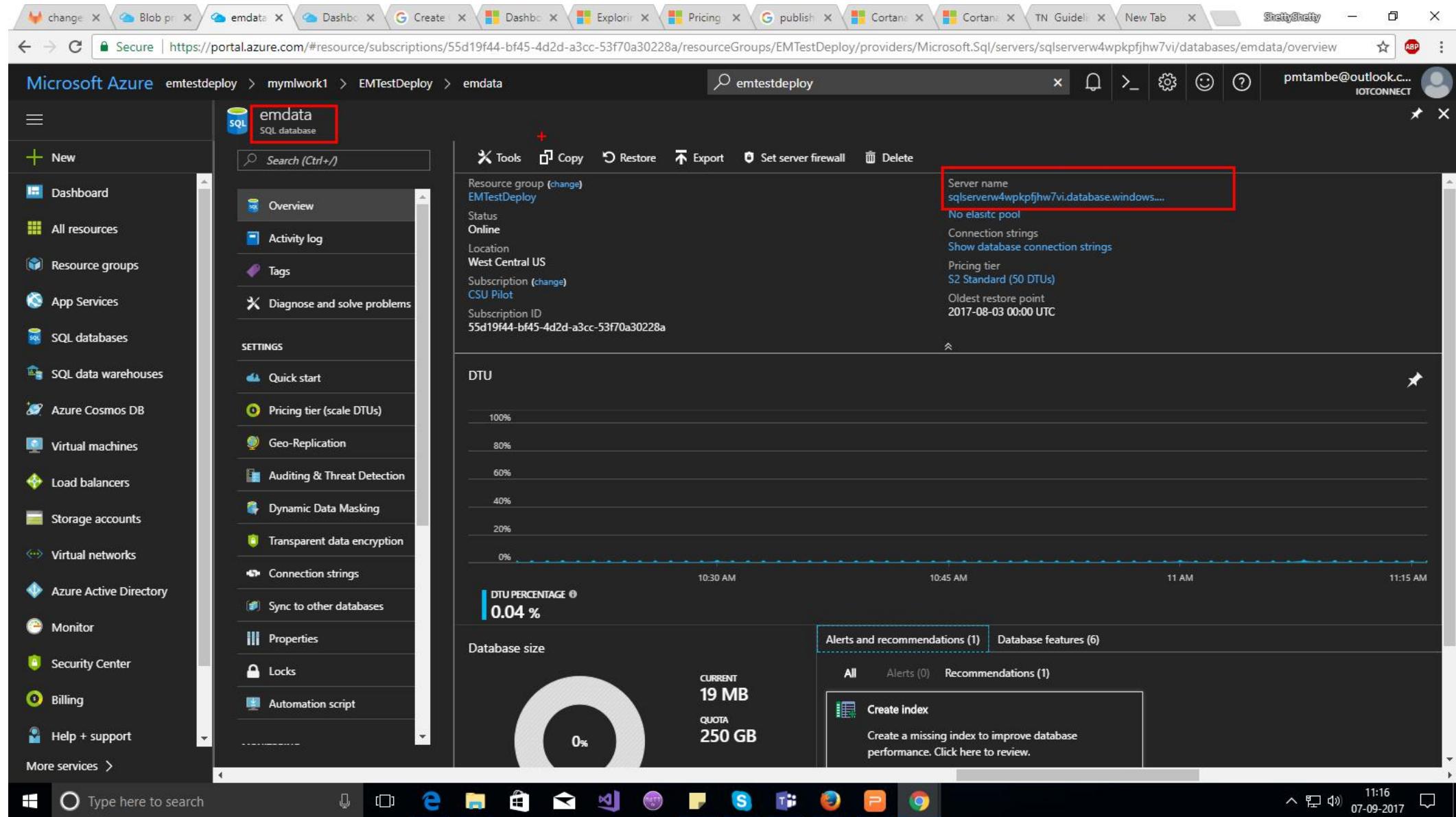
CURRENT 19 MB QUOTA 250 GB

Alerts and recommendations (1) Database features (6)

All Alerts (0) Recommendations (1)

Create index

Create a missing index to improve database performance. Click here to review.



Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 | Cortana

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.e9f7e1420b024801a... ABP

### Microsoft Azure Machine Learning Studio

EM\_Anomaly\_72

In draft Draft saved at 12:45:18 PM

**Import Data**

Launch Import Data Wizard

Data source: Azure SQL Database

Database server name: sqlserverw4wpkpjhw7vi.d

Database name: emdata

User name: adminuser

Password: .....  
Accept any server certificate?

Database query:

```

1 SELECT *
2 FROM [LiveData]

```

**Properties Project**

**Import Data**

Search experiment items

- Saved Datasets
- Trained Models
- Transforms
- Data Format Conversions
- Data Input and Output
- Data Transformation
- Feature Selection
- Machine Learning
- OpenCV Library Modules
- Python Language Modules
- R Language Modules
- Statistical Functions
- Text Analytics
- Time Series
- Web Service
- Deprecated

**Mini Map**

**Flow Diagram:**

```

graph TD
    ImportData[Import Data] --> ApplySQLTransformation[Apply SQL Transformation]
    ApplySQLTransformation --> EditMetadata1[Edit Metadata]
    EditMetadata1 --> PCA[PCA-Based Anomaly Detect...]
    PCA --> TrainModel[Train Anomaly Detection M...]
    TrainModel --> ScoreModel[Score Model]
    ScoreModel --> EditMetadata2[Edit Metadata]
    EditMetadata2 --> TrainModel

```

**Toolbar:**

- NEW
- RUN HISTORY
- SAVE
- SAVE AS
- DISCARD CHANGES
- RUN
- SET UP WEB SERVICE
- PUBLISH TO GALLERY

Type here to search

12:45 07-09-2017

Microsoft Azure Machine Learning Studio

EM\_Anomaly\_72

In draft Draft saved at 12:45:18 PM

**Import Data**

Launch Import Data Wizard

Data source: Azure SQL Database

Database server name: sqlserverw4wpkpjhw7vi.d

Database name: emdata

User name: adminuser

Password: .....  
 Accept any server c...

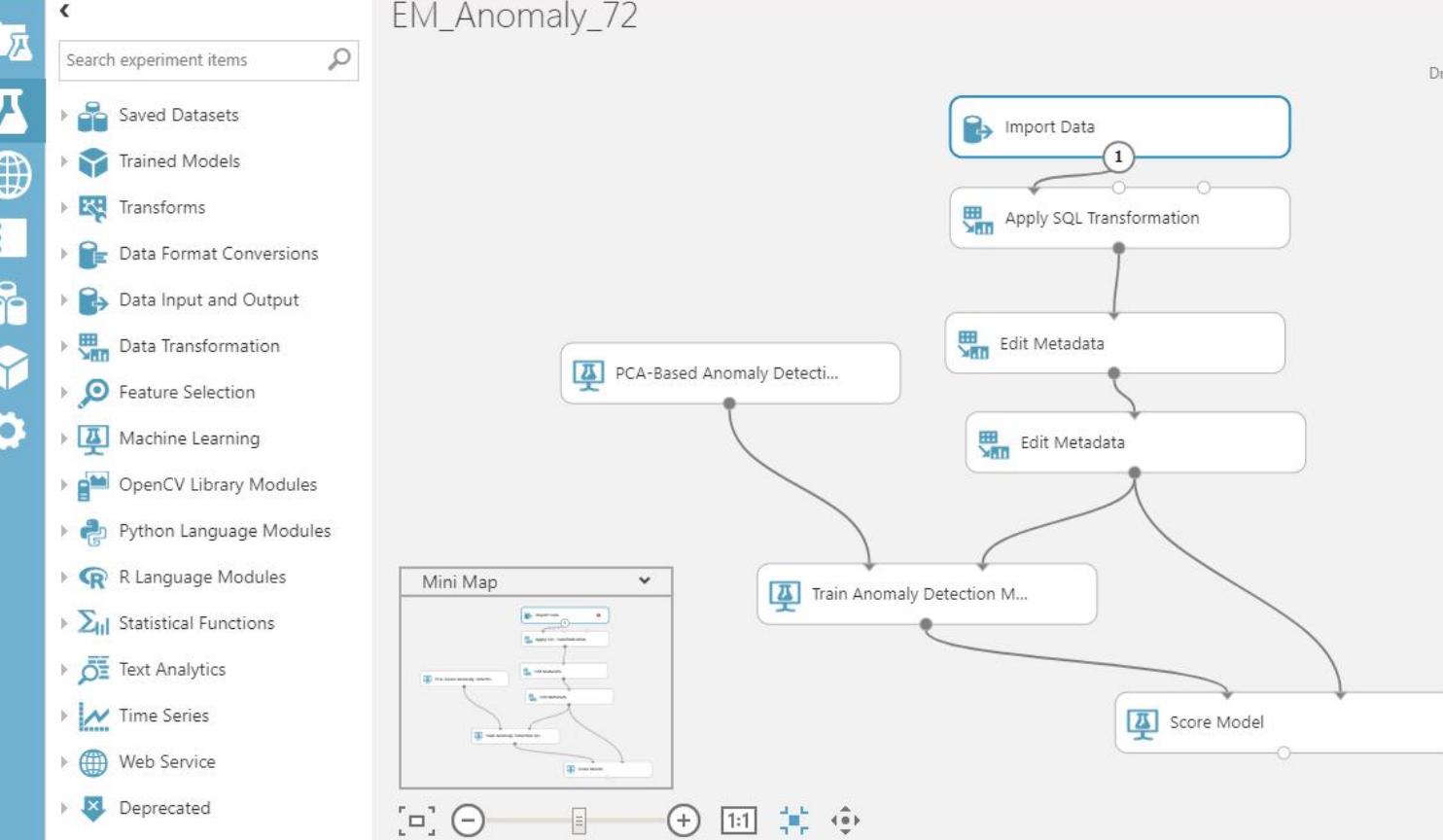
Database query:

```

1 SELECT *
2 FROM [LiveData]
  
```

**Quick Help**

Load data from sources such as the Web, Azure SQL database, Azure table, Hive table, Windows Azure BLOB, or Azure DocumentDB storage. Formerly known as Reader.  
[\(more help...\)](#)



Search experiment items

- Saved Datasets
- Trained Models
- Transforms
- Data Format Conversions
- Data Input and Output
- Data Transformation
- Feature Selection
- Machine Learning
- OpenCV Library Modules
- Python Language Modules
- R Language Modules
- Statistical Functions
- Text Analytics
- Time Series
- Web Service
- Deprecated

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 | Cortana

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.e9f7e1420b024801a...

Microsoft Azure Machine Learning Studio

mymlwork1 ? 🚶 🚧 🌐 😊

EM\_Anomaly\_72

In draft Draft saved at 12:45:38 PM

**Properties Project**

**Import Data**

Launch Import Data Wizard

Data source: Azure SQL Database

Database server name: sqlserverw4wpkpjh7vi.d

Database name: emdata

User name: adminuser

Password: .....  
Accept any server c...

Database query:

```

1 SELECT *
2 FROM [LiveData]
  
```

**Quick Help**

Load data from sources such as the Web, Azure SQL database, Azure table, Hive table, Windows Azure BLOB, or Azure DocumentDB storage. Formerly known as Reader.  
(more help...)

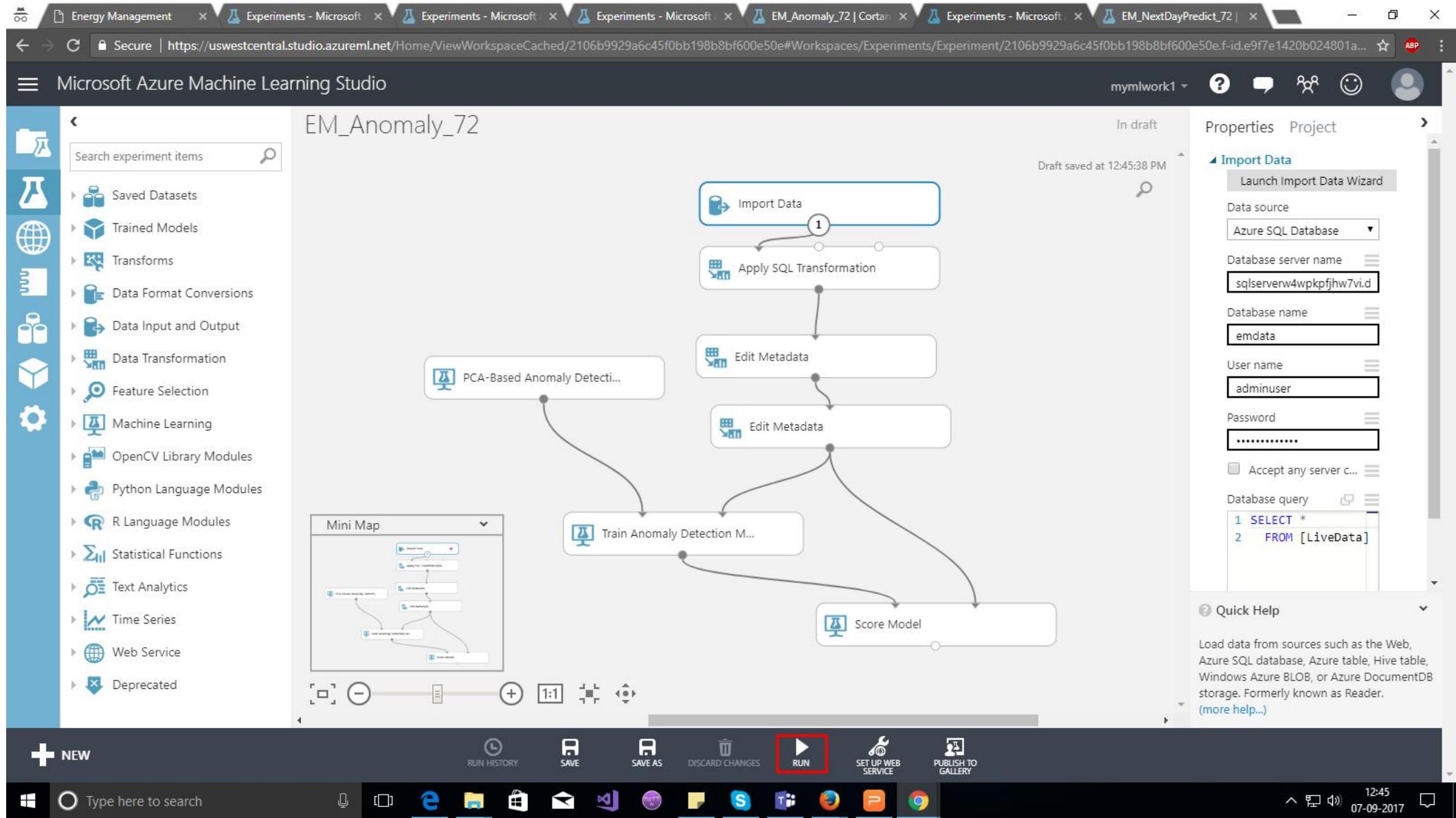
Import Data → Apply SQL Transformation → Edit Metadata → PCA-Based Anomaly Detect... → Train Anomaly Detection M... → Score Model

Mini Map

NEW RUN HISTORY SAVE SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

12:45 07-09-2017



Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 | Cortana

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.e9f7e1420b024801a... ABP

### Microsoft Azure Machine Learning Studio

mymlwork1 ? 🚶 🚧 😊 🙏

**EM\_Anomaly\_72**

Properties Project

**Experiment Properties**

- START TIME 9/7/201...
- END TIME 9/7/201...
- STATUS CODE Finished
- STATUS DETAILS None

**Summary**

This experiment is targeted at finding the Anomalies in the data

**Description**

Enter the detailed description for your experiment.

**Quick Help**

Import Data (green checkmark)

Apply SQL Transformation (green checkmark)

Edit Metadata (green checkmark)

PCA-Based Anomaly Detect... (green checkmark)

Edit Metadata (green checkmark)

Train Anomaly Detection M... (green checkmark)

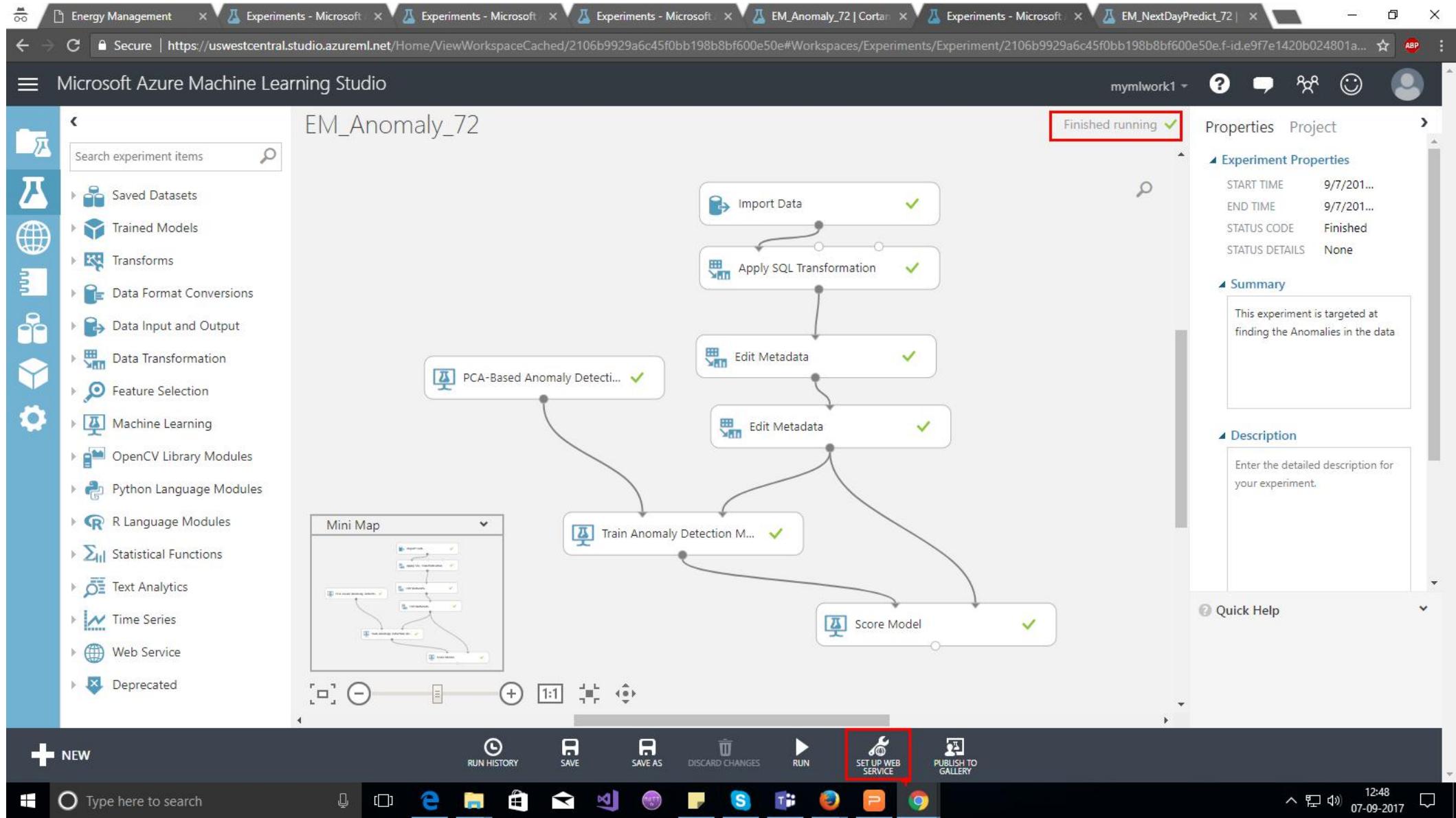
Score Model (green checkmark)

Mini Map

NEW RUN HISTORY SAVE SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Type here to search

12:48 07-09-2017



Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 | Cortana

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.e9f7e1420b024801a...

Microsoft Azure Machine Learning Studio

mymwork1 ? 🚶 🚧 😊 🙏

**EM\_Anomaly\_72**

Finished running ✓

Properties Project

**Experiment Properties**

- START TIME 9/7/201...
- END TIME 9/7/201...
- STATUS CODE Finished
- STATUS DETAILS None

**Summary**

This experiment is targeted at finding the Anomalies in the data

**Description**

Enter the detailed description for your experiment.

**Quick Help**

Import Data ✓

Apply SQL Transformation ✓

Edit Metadata ✓

PCA-Based Anomaly Detect... ✓

Edit Metadata ✓

Train Anomaly Detection M... ✓

Score Model ✓

Mini Map

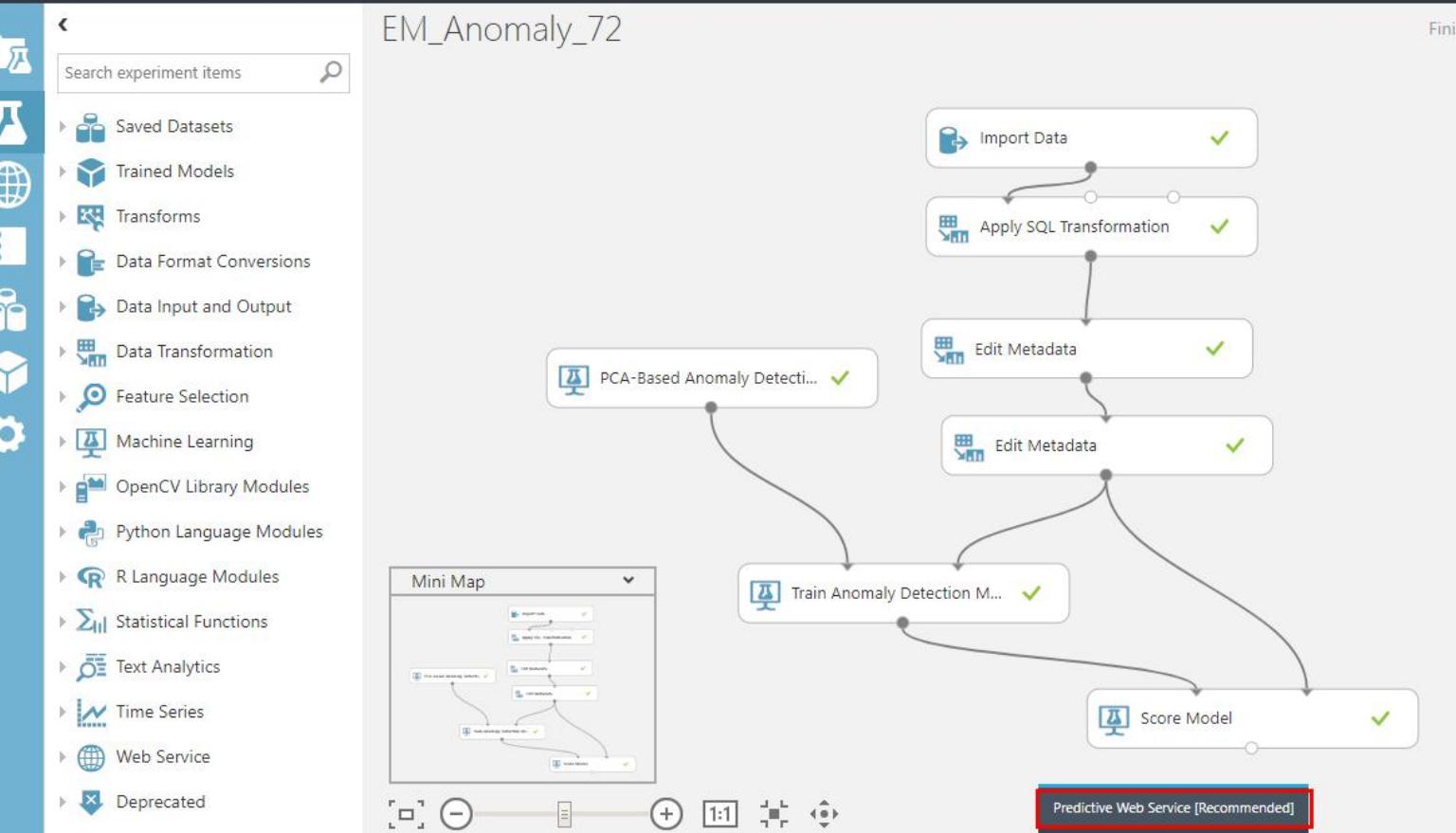
Predictive Web Service [Recommended]

Retraining Web Service

NEW https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#

SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

+ NEW Type here to search 12:48 07-09-2017



```

graph TD
    A[Import Data] --> B[Apply SQL Transformation]
    B --> C[Edit Metadata]
    C --> D[PCA-Based Anomaly Detect...]
    D --> E[Edit Metadata]
    E --> F[Train Anomaly Detection M...]
    F --> G[Score Model]
  
```

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Experiments - Microsoft EM\_NextDayPredict\_72 | Cortana

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/Experiments/Experiment/2106b9929a6c45f0bb198b8bf600e50e.f-id.e9f7e1420b024801a...

Microsoft Azure Machine Learning Studio mymlwork1 ? 🔍 🌐 😊 🚙

Training experiment Predictive experiment

EM\_Anomaly\_72 [Predictive Exp.] In draft Draft saved at 12:49:10 PM

Properties Project Experiment Properties

START TIME 9/7/201...  
END TIME 9/7/201...  
STATUS CODE InDraft  
STATUS DETAILS None

Summary This experiment is targeted at finding the Anomalies in the data

Description Enter the detailed description for your experiment.

Quick Help

Creating predictive experiment

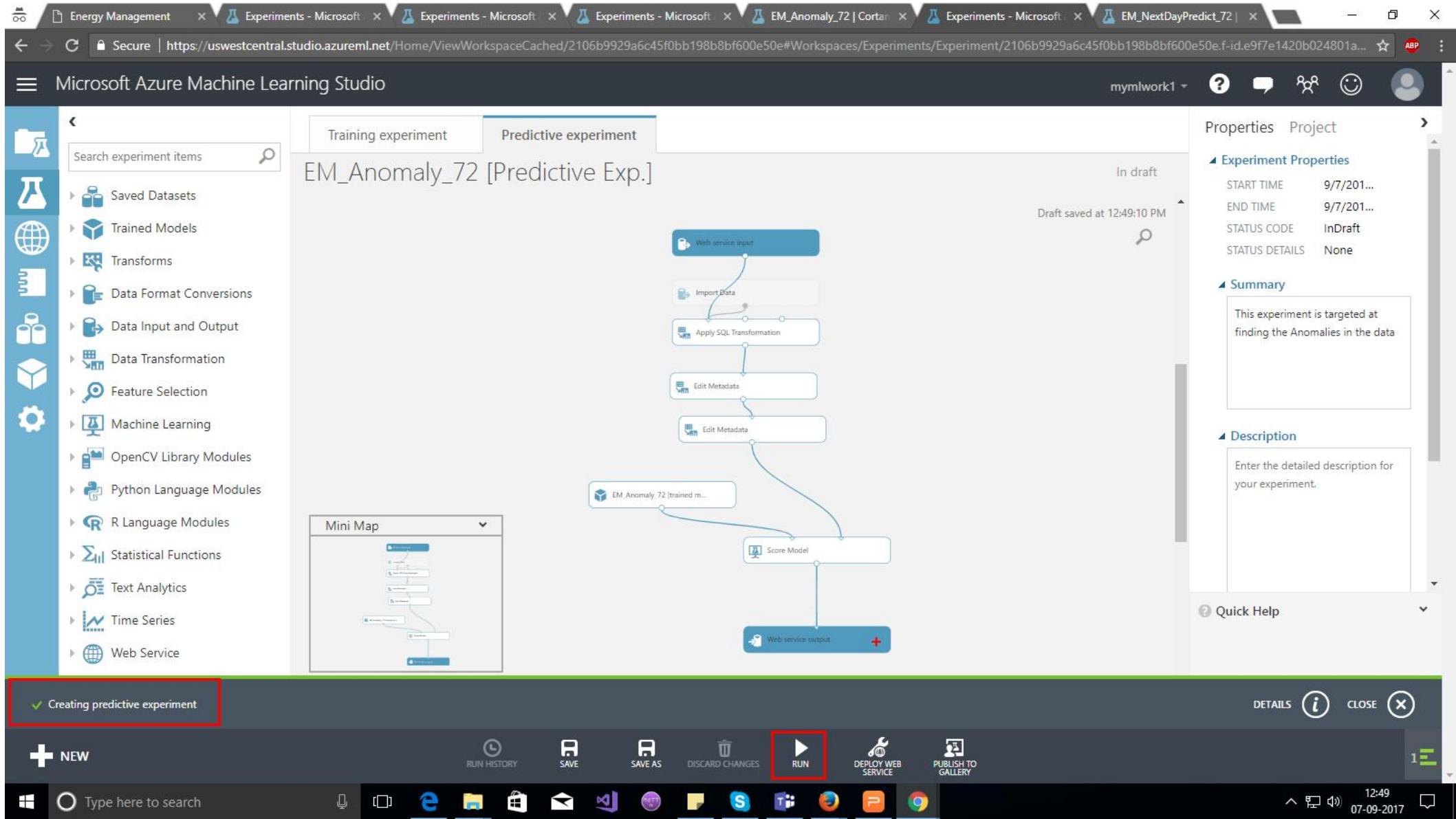
Web service input → ImportData → Apply SQL Transformation → Edit Metadata → Edit Metadata → EM Anomaly\_72 [trained m... → Score Model → Web service output

Mini Map

DETAILS ⓘ CLOSE ✎

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN DEPLOY WEB SERVICE PUBLISH TO GALLERY

Type here to search 12:49 07-09-2017



Microsoft Azure Machine Learning Studio

Training experiment Predictive experiment

**EM\_Anomaly\_72 [Predictive Exp.]**

Finished running ✓

Web service input → Import Data → Apply SQL Transformation → Edit Metadata → Edit Metadata → EM Anomaly\_72 [trained m... ] → Score Model → Web service output

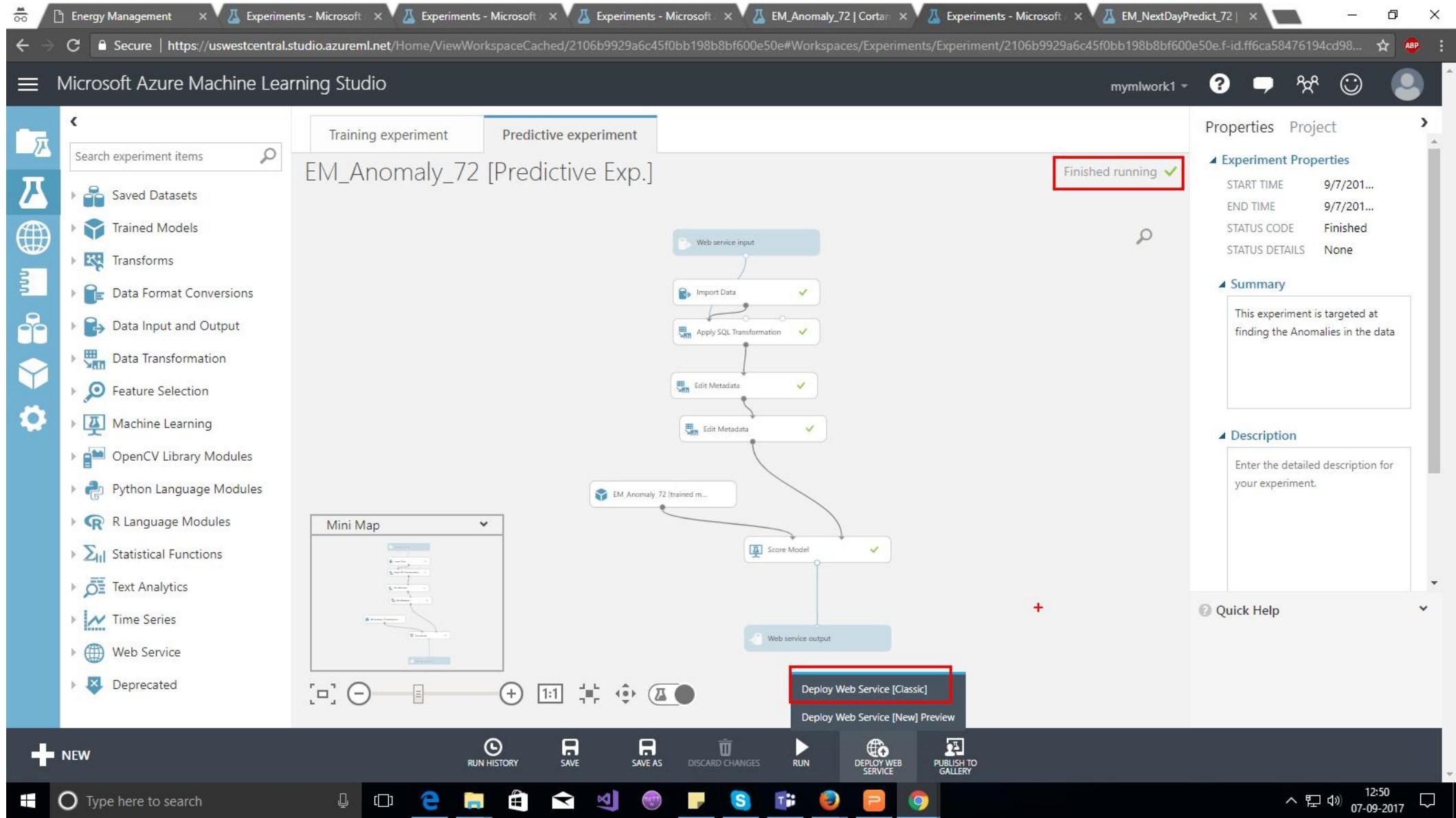
Mini Map

Deploy Web Service [Classic] Deploy Web Service [New] Preview

NEW RUN HISTORY SAVE AS DISCARD CHANGES RUN DEPLOY WEB SERVICE PUBLISH TO GALLERY

Type here to search

12:50 07-09-2017



```

graph TD
    A[Web service input] --> B[Import Data]
    B --> C[Apply SQL Transformation]
    C --> D[Edit Metadata]
    D --> E[Edit Metadata]
    E --> F["EM Anomaly_72 [trained m... ]"]
    F --> G[Score Model]
    G --> H[Web service output]
  
```

Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Web services - Microsoft EM\_NextDayPredict\_72 |

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/WebServiceGroups/WebServiceGroup/874b54f52a48488db02971c4d9bab8f/dashboard

Microsoft Azure Machine Learning Studio

em\_anomaly\_72 [predictive exp.]

DASHBOARD CONFIGURATION

General New Web Services Experience [preview](#)

Published experiment

[View snapshot](#) [View latest](#)

Description

No description provided for this web service.

API key

oXcvCIxhuYBKM04VG1CHJodvwJ0Lp3UTPqg/E5azOhcCNftW5VUafeAUD8igNY2ijs3txFG6ZyN+V4gtUdxJA==

Default Endpoint

API HELP PAGE	TEST	APPS	LAST UPDATED
REQUEST/RESPONSE	<a href="#">Test</a> <a href="#">Test <a href="#">preview</a></a>	 Excel 2013 or later    Excel 2010 or earlier workbook	9/7/2017 12:50:39 PM
BATCH EXECUTION	<a href="#">Test <a href="#">preview</a></a>	 Excel 2013 or later workbook	9/7/2017 12:50:39 PM

Additional endpoints

Number of additional endpoints created for this web service: 0

[Manage endpoints \[preview\]\(#\)](#)

**NEW** 

Type here to search             

12:50 07-09-2017

Energy Management Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... EM\_Anomaly\_72 | Co ... Web services - Micro ... Request Response A ... EM\_NextDayPredict ...

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

80°F 07 Sep 2017  
Scattered Thunderstorms

## Mobiliya Energy Management



Jayesh Lunkad

Logout

DASHBOARD

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FEEDBACK

### Azure ML Configuration

#### Azure ML Configuration

Azure ML AnomalyDetection Api key

Azure ML AnomalyDetection Api Url

Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYIRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==

https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/8e2c2519d81848218b1e87fc4b975f97/execute?api

Add

### Firebase Configuration

### User Configuration

### Organization Configuration

### Room Configuration



Energy Management Experiments - Microsoft Experiments - Microsoft Experiments - Microsoft EM\_Anomaly\_72 | Cortana Web services - Microsoft EM\_NextDayPredict\_72 |

Secure | https://uswestcentral.studio.azureml.net/Home/ViewWorkspaceCached/2106b9929a6c45f0bb198b8bf600e50e#Workspaces/WebServiceGroups/WebServiceGroup/874b54f52a48488db02971c4d9bab8f/dashboard

## Microsoft Azure Machine Learning Studio

### em\_anomaly\_72 [predictive exp.]

DASHBOARD CONFIGURATION

General New Web Services Experience [preview](#)

Published experiment

[View snapshot](#) [View latest](#)

Description

No description provided for this web service.

API key

```
oXcvCIxhuYBKM04VG1CHJodvwJ0Lp3UTPqg/E5azOhcCNftW5VUafeAUD8igNY2ijs3txFG6ZyN+V4gtUdxJA==
```

Default Endpoint

API HELP PAGE	TEST	APPS	LAST UPDATED
<a href="#">REQUEST/RESPONSE</a>	<a href="#">Test</a> <a href="#">Test <a href="#">preview</a></a>	 Excel 2013 or later    Excel 2010 or earlier workbook	9/7/2017 12:50:39 PM
<a href="#">BATCH EXECUTION</a>	<a href="#">Test <a href="#">preview</a></a>	 Excel 2013 or later workbook	9/7/2017 12:50:39 PM

Additional endpoints

Number of additional endpoints created for this web service: 0

[Manage endpoints \[preview\]\(#\)](#)

**NEW**

<https://uswestcentral.studio.azureml.net/apihelp/workspaces/2106b9929a6c45f0bb198b8bf600e50e/webservices/874b54f52a48488db02971c4d9bab8f/endpoints/0e42d24d7c8943e7b40abb15608c36fb/score>

Type here to search

Energy Management X Experiments - Micro X Experiments - Micro X Experiments - Micro X Experiments - Micro X EM\_Anomaly\_72 | C X Web services - Micro X Request Response API X EM\_NextDayPredictor X

← → C Secure | https://uswestcentral.studio.azureml.net/apihelp/workspaces/2106b9929a6c45f0bb198b8bf600e50e/webservices/874b54f52a48488db02971c4d9babb8f/endpoints/0e42d24d7c8943e7b40abb15608c36fb/score

# Request Response API Documentation for EM\_Anomaly\_72 [Predictive Exp.]

Updated: 09/07/2017 07:20

No description provided for this web service.

- [Previous version of this API](#)
- [Submit a request](#)
- [Input Parameters](#)
- [Output Parameters](#)
- [Web App Template for RRS](#)
- [Sample Code](#)
- [API Swagger Document](#) ⓘ
- [Endpoint Management Swagger Document](#) ⓘ

## Request

Method	Request URI	HTTP Version
POST	<code>https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/0e42d24d7c8943e7b40abb15608c36fb/execut&amp;api-version=2.0&amp;details=true</code>	HTTP/1.1

Note: You may omit the **details** parameter from the query string. This would cause **ColumnTypes** to be omitted from the output

## Request Headers

Request Header	Description
<code>Authorization:Bearer abc123</code>	Required. Pass the API Key here. Obtain this key from the publisher of the API.
<code>Content-Length</code>	Required. The length of the content body.



Energy Management Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... EM\_Anomaly\_72 | Co ... Web services - Micro ... Request Response A ... EM\_NextDayPredict ...

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

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## Mobiliya Energy Management



Jayesh Lunkad

Logout

DASHBOARD

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### Azure ML Configuration

Azure ML Configuration

oXcvCIXhuYBKmO4VG1CHjodvwj0Lp3tjTPqq/E5azOhcCNftW5VUafeAUD8igNY2ijs3txFG6ZyN+V4gtUdxJA==

ces.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/0e42d24d7c8943e7b40abb15608c36fb/execute?api-version=2.0&details=true

Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYIRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==

https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/8e2c2519d81848218b1e87fc4b975f97/execute?api-

Add

### Firebase Configuration

### User Configuration

### Organization Configuration

### Room Configuration



Energy Management Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... Experiments - Micro ... EM\_Anomaly\_72 | Co ... Web services - Micro ... Request Response A ... EM\_NextDayPredict ...

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

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## Mobiliya Energy Management



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### Azure ML Configuration

Azure ML Configuration

```
oXcvCIxhuYBKmO4VG1CHjodvwj0Lp3tjTPqq/E5azOhcCNftW5VUafeAUD8igNY2ijs3txFG6ZyN+V4gtUdxJA==
```

```
https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/0e42d24d7c8943e7b40abb15608c36fb/execute?api
```

```
Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYIRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==
```

```
https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/8e2c2519d81848218b1e87fc4b975f97/execute?api
```

Add

### Firebase Configuration

### User Configuration

### Organization Configuration

### Room Configuration



Type here to search



12:52 07-09-2017

Energy Management Experiments - Micro EM\_Experiment\_72 | Co Web services - Micro Request Response A EM\_NextDayPredict

Secure | https://emtestdeployweb.azurewebsites.net/#/dashboard/piconf

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## Mobiliya Energy Management



Jayesh Lunkad

Logout

DASHBOARD

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### Power BI Configuration(Premise)

### Power BI Configuration(Building)

### Power BI Configuration(Feedback)

### Azure ML Configuration

#### Azure ML Configuration

```
oXcvCIXhuYBKmO4VG1CHjodvwj0Lp3tjTPqq/E5azOhcCNftW5VUafeAUD8igNY2ijs3txFG6ZyN+V4gtUdxJA==
```

```
https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/0e42d24d7c8943e7b40abb15608c36fb/execute?api
```

```
Bc6r+2mb9k+xFcjgM6GRqh8CriaoyCgeFwWeQKG7PmODcYIRHcsDNR8gh26bQktaVCJWfgbZGuV/w1ZnAW2wAQ==
```

```
https://uswestcentral.services.azureml.net/workspaces/2106b9929a6c45f0bb198b8bf600e50e/services/8e2c2519d81848218b1e87fc4b975f97/execute?api
```

Add

### Firebase Configuration

### User Configuration

### Organization Configuration

### Room Configuration

Configuration Updated

Type here to search

12:53 07-09-2017

# What Next...

The above setup will enable a simulated system which is helpful to get a hands-on with the solution and also to experiment on components involved.

But, inorder to get real data into the system, following pre-requisites have to be met.

- Devices (Powerscouts and Wireless Sensor tags)
- Gateway (A Windows Machine) added to the Azure Virtual Network of VMs
- Modbus interface and UFL Connector license (OSIsoft components)
- Completion of initial configuration setup of devices, i.e. registering the sensor tags on the manufacturer's website, configuring the Powerscouts etc.

Thank You

