



Small Business
Cloud Server
Deployment Guide

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# 1.0 Things to know prior to using this Guide

- Please familiarize yourself with this document prior to deploying Small Business Cloud Server (SBCS).
- All the screen shots in this guide are for reference only.
- This guide will assist you in finalizing the deployment of the SBCS purchased through Tech Data's StreamOne Solutions Store.
  - o In depth training on Azure is available, but not included in this guide.

### Accessing the SBCS Services in Azure

- You need to login to the Azure portal (<a href="https://portal.azure.com">https://portal.azure.com</a>) using the login created in the StreamOne Solutions Store checkout processed and also emailed to you.
  - For example: <u>john.doe@contoso.onmicrosoft.com</u>
  - It will give you a one-time password which you will need to change.
- To access the Virtual Machines (VM) through the Azure Portal, you must ensure you have the SYSAdmin Login and Password created during the StreamOne check out process.
  - If you were not the person who accessed the StreamOne Solutions Store to place the order, please contact your internal purchasing contact to obtain the user login and password.
  - If the VM User name and Password are no longer accessible, follow the link below to change it through the Azure Portal.
    - How to reset the Remote Desktop service or its login password in a Windows VM
- Architecture and Diagrams of the SBCS are located at the back of this document.
- Prior knowledge is required on how to configure Active Directory, Office 365 and Remote Desktop Services.
  - The SBCS server will have completed installation (but not final configuration) of Microsoft Essentials roles and features.
  - When you first login (to SRA-01) the Windows Server Essentials installation would have already deployed:
    - Active Directory
    - Certificate Services
    - DNS
    - File and Storage Services
    - IIS
    - Remote Desktop Services (RDS)

#### Windows Server Essentials

- o There Must Not Be Any Pre-Existing Domain Controllers deployed.
  - During the final stages of Windows Server Essentials it will ask you to configure Active Directory as the first Domain Controller.
- If you plan to attach the SBCS servers to an existing Windows Active Directory Domain.
  - You can remove Windows Server Essentials and keep certain other Domain Controller roles and features.
- It will fall outside the scope of this document.
  - Here is guidance to assist you: <u>Install Windows Server 2012 R2 Essentials</u> as a new replica domain controller
  - Or you would need to UNINSTALL Windows Server Essentials from all the SBCS VM's.

## • During the StreamOne Solutions Store ordering process

You are prompted to choose the Size VMs you need: Small, Medium or Large.



- Small Deployment (< 5 Users)</li>
- Medium Deployment (< 20 Users)</li>
- Large Deployment (< 50 Users)</li>
- o You must choose Windows Server 2012 R2 or Windows 2016 for the deployment.
  - You can use this guide for either one since there are many similarities between the two.

#### Office 365

- You must have an Office 365 Administrator account and a working knowledge of it.
- o Since you will be connecting the SBCS SRA-01 Server to the Office 365 tenant.

## • Windows Server Remote Desktop Services (RDS)

- o Part of this guide will refer you to configuring RDS Server
- To configure external internet access to the RDS Session you would need to follow this guide:
  - Remote Desktop Web Access (RD Web Access)
- If RDS Services are only to be accessed internally using VPN connections, then external web access is not required.

#### Azure VPN

- Creating an Azure Site to Site VPN Connection is not covered in this guide. You would need to refer to:
  - Create a Site-to-Site connection in the Azure portal

## Azure Backup

- Prior to doing the final configuration, it is highly recommended that a backup is performed of the VM's.
  - We recommend a backup because in Azure there is no concept of snap shots as there is when working with on-premises virtualization technologies such as Windows Server Hyper-V or VMware.
- o Section 1.2.6 of this document covers using Azure Backup.
  - Azure Back-up (laaS Back-up) has been configured for the VMs running in your resource group.
  - A Default policy has been set with retention points (30Days, 104Weeks, 60Months & 10Years).
  - The Daily back up is scheduled at 7:30AM.
- More information located here on how to perform Azure Backups:
  - Back up Azure virtual machines to a Recovery Services vault

#### Other Resources

- YouTube Video on Deploying SBCS: https://www.youtube.com/watch?v=jsDmpndYiH8&feature=youtu.be
- Tech Data Azure Webinar series
  - <u>Tech Data Technical Services</u> (YouTube).



## 1.1 SMB Solution Template Goal

This template shows you how to deploy the equivalent of the old Small Business Server, now updated and based on Office 365 and Azure. The idea is to **simplify deployment** to the public cloud.

Initially we're looking to support typical **SMB scenarios**:

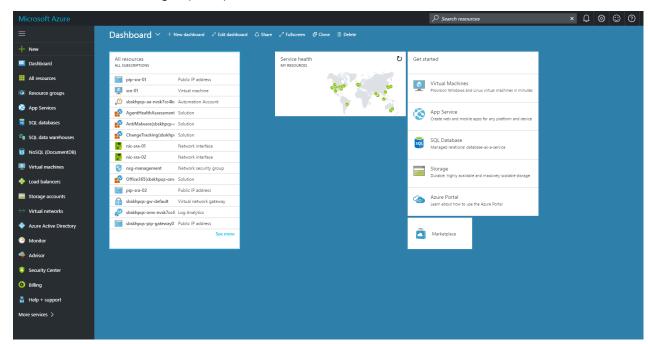
- Your e-mail server in the cloud by connecting to an Office 365 subscription.
- Your file server in the cloud.
- Running your legacy applications in the cloud.
- Increasing your protection against ransomware by leveraging cloud technologies.

## 1.2 Post-deployment

After deployment via StreamOne Solutions Store, you possess all necessary resources. You are responsible for final configuration execution since it is for your client. This solution template is split out into the various different deployment elements.

## 1.2.0 Azure

When you first login to Azure you are greeted with a screen similar to this. This is called the Azure Resource Manager (ARM).



If you are not familiar with this screen, please refer to the following link to assist you.
Azure Video Center

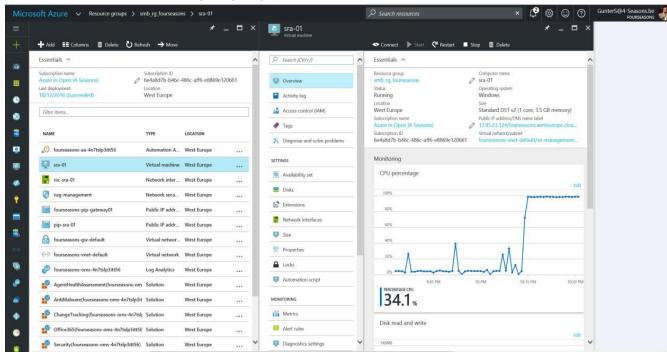
## 1.2.1 Virtual Machine

#### 1.2.1.1 Details

- By default a VM is provisioned including a set of extensions to allow monitoring and protection. The NIC is **not** connected to a **Network Security Group**.
- VM Details:



- o Small:
  - SRA-01 Compute is: Standard\_DS2v2 (2 cores 7gb ram, 126gb Storage)
    - Domain Controller, RDS etc...
  - SRA-02 Compute is: Standard\_DS1v2 (1 core 3.5gb ram, 126gb Storage)
    - Used non concurrent usage for RDS session hosts
    - Best for cloud server
  - Standard Blob Storage
- Medium:
  - SRA-01 Compute is: Standard\_DS2v2 (2 cores 7gb ram, 126gb Storage)
    - Domain Controller, RDS etc...
  - SRA-02 Compute is: Standard\_DS1 v2 (1 core 3.5gb ram, 126gb Storage)
    - Used for RDS session hosts
  - Standard BLOB storage
- Large:
  - SRA-01 Compute is: Standard\_DS4\_v2 (8 CPU 28 GB RAM)
    - Standard BLOB Storage
    - Is still the AD DC and contains several RDS roles except the RDS Session Host role.
    - Servers SRA-02 & SRA 03 are RDS Session hosts.
      - o Best for concurrent usage and heavy usage.
    - A "Jump Server" is foreseen. This server is supposed to be stopped/deallocated in normal circumstances but admin's will activate it when they need to do admin work in the server environment.



#### 1.2.1.2 Tasks

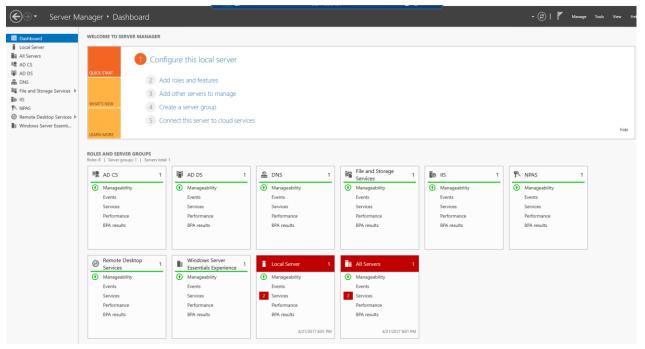
- The way you connect to the VM's is through the RDP. By Default during the creation of the VM access is allowed
- You will need to ensure that the appropriate port (3389) is open on the Firewall/Router to allow access.



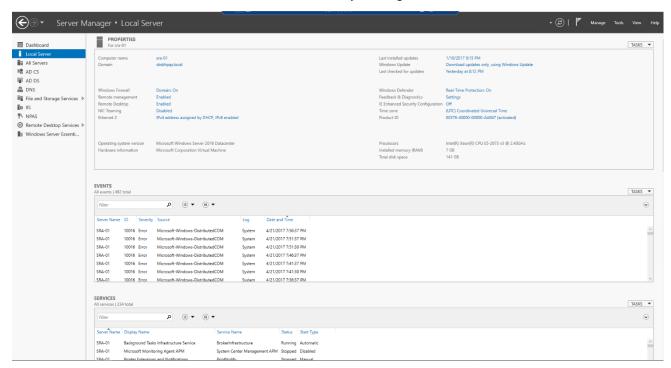
- As you can see in the above screen shot there is a Connect icon.
- You will need to ensure you are on the SRA-01 VM
  - Click on the Connect icon and it will download an RDP Package. Once the download is complete, you will need to open it.
- Connect to the SRA-01VM with the provided sysadmin account and password. If you need to reset the sysadmin password refer to:
  - o How to reset the Remote Desktop service or its login password in a Windows VM



- Once you have gained access to the SRA-01 VM you will see that there are many Roles and Features that are already deployed
- The Time is set to UTC and you will need to change it for the local time zone you desired.

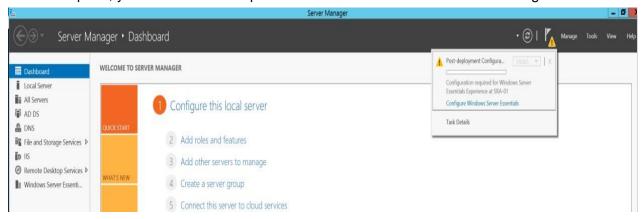


- · You will need to do the following:
  - You need to ensure IE Enhanced Security Configuration is set to Off.

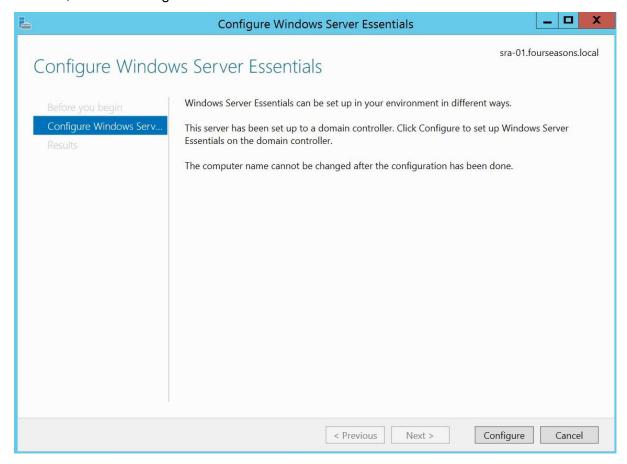




At this point, you will need to complete the Server Essentials Post-Role Configuration.

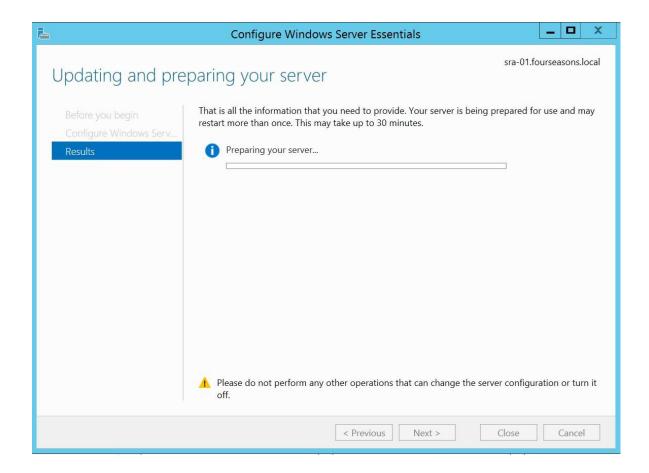


- In the SRA-01 VM you will see the Post-Deployment Configuration Alert and click the "Configure Windows Server Essentials".
- This will open the Configure Windows Server Essentials Wizard as shown.
- Next, click on Configure.



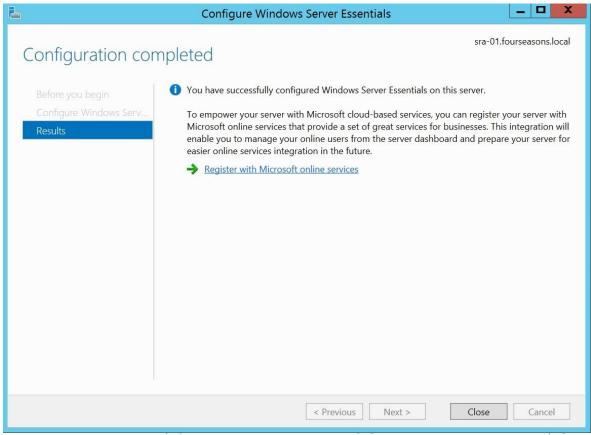


 Wait until configuration is complete. This may take several minutes depending on the VM compute size chosen.



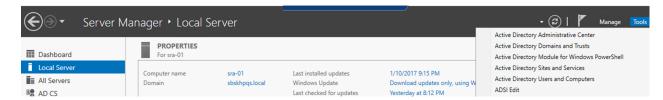


- Once complete, you will see the following screen
- Click Close.



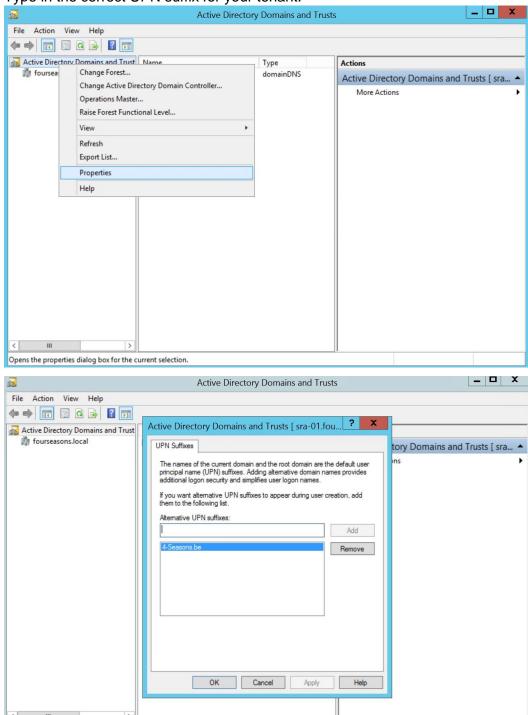
#### Next step is to Add User UPN.

- This will allow the users to logon on the server with the same UserID as Office 365
  - o Add the customer domain to the UPN Suffixes list.
- As you can see from the screen shot, open Server Manager.
- Under Tools, choose Active Directory Domains and Trusts.





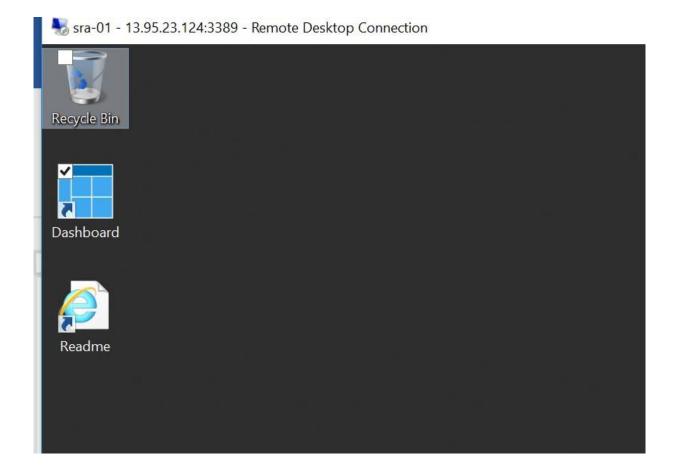
- You will see that a .Local domain was created by default.
- Highlight Active Directory Domains and Trusts and right click for Properties.
- Type in the correct UPN suffix for your tenant.





Now to Import the users from AAD/Office 365. (You might need to restart the dashboard and/or Server)

- If you had to reboot SRA-01 you will need to wait a few minutes.
- Once the SRV-01 VM is available, you will need to log back in using RDP using the previous steps.
- Once you logged in, you will see a "Dashboard" icon on the desktop.
- Highlight and click on the Dashboard icon.





## 1.2.1.3 Managing Office 365 Users Information in Windows Server Essentials

- You and/or the end user customer must have a pre-existing Office 365 subscription. This information is necessary as we move forward.
- If you do not have this information, **DO NOT** proceed.
- If you need more information go to:
  - o <a href="https://technet.microsoft.com/en-us/library/dn737016(v=ws.11).aspx">https://technet.microsoft.com/en-us/library/dn737016(v=ws.11).aspx</a>
- When you integrate your Windows Server Essentials server with Microsoft Office 365, you can manage your online accounts along with user accounts from the Dashboard.
- When you use the Dashboard to assign a Microsoft Online Services account to a
  user account, the account passwords are automatically synchronized, and you can
  maintain the two accounts together throughout the user account's lifecycle.
  - It's convenient for the user, who can use the same password to access resources on the server and in Office 365. You can apply the same password requirements for access to resources in Office 365 that you require for your in-house resources.

#### How does password synchronization work?

- When you use the Dashboard to assign a Microsoft Online Services account to a user account, the user account password is automatically synchronized with the user's online account.
  - This means that a user only needs a single password to access both the resources on the server and in Office 365.
  - Furthermore, you can use the same name for the user account and the users online ID.
- Password synchronization occurs immediately and automatically when a user changes the password for their user account from a domain-joined computer or by using Remote Web Access.
- Important: If Office 365 is integrated with Windows Server Essentials, users should not change the password for their Microsoft online account from the Office 365 portal. Doing so will break the password synchronization.

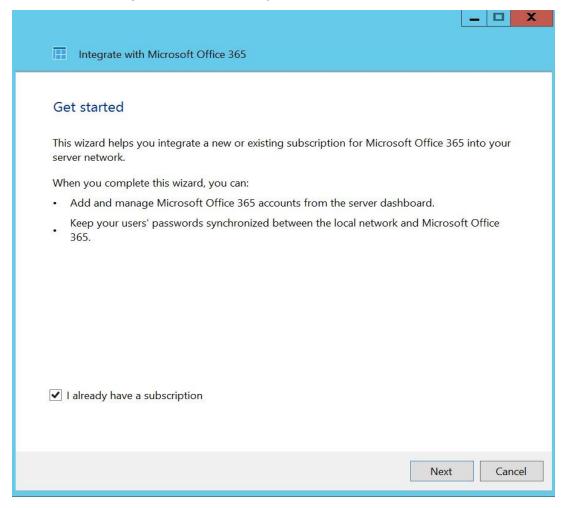


As Pictured below you will need to highlight "Services" then Office 356

Click on "Integrate with Microsoft Office 365".



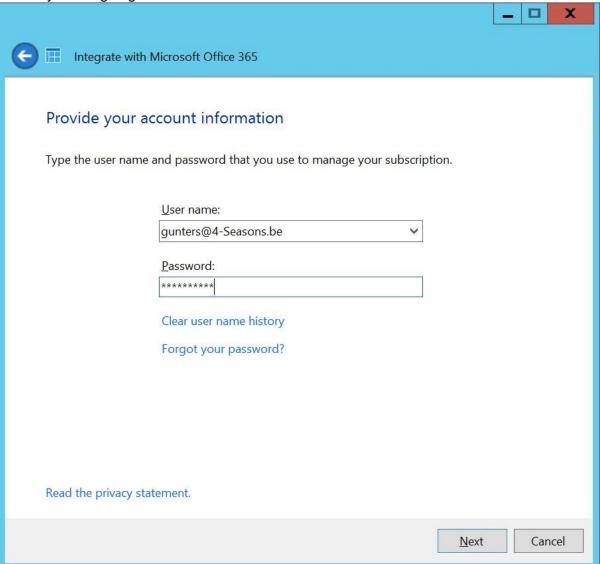
To enable integration, click on "Integrate with Microsoft Office 365" and click "next."



This username must have full access to the customers Office 365 subscription.



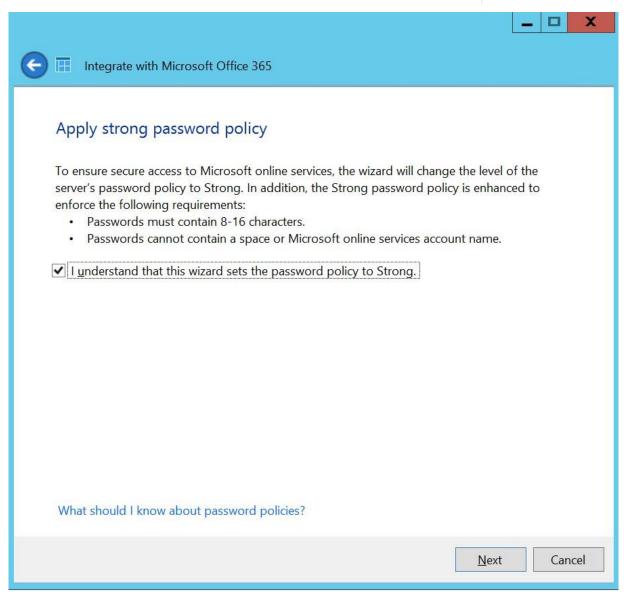
- o The User name and password you see here is for **reference only**.
- Please ensure you use the correct Username and password for the Office 365 subscription you are going to connect to.



• Click Next.

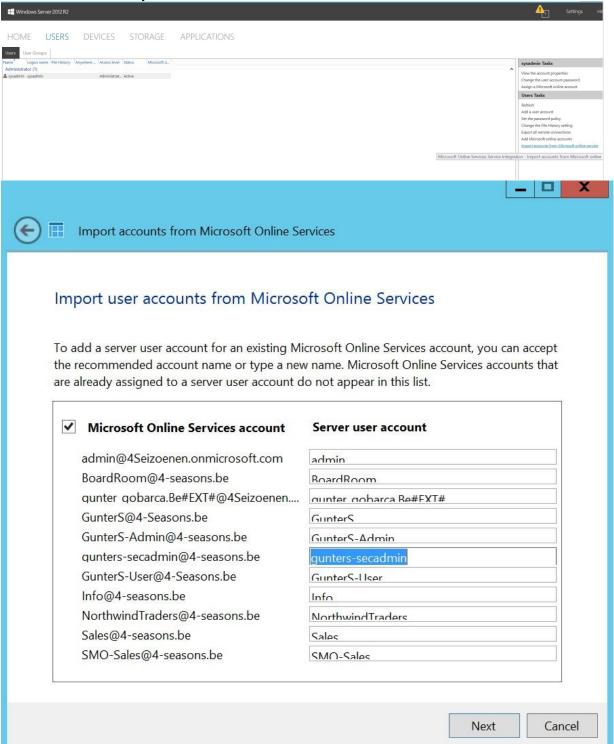
• Please read and check the box. Click Next.







- After completing the wizard restart the dashboard and select the option to import accounts from Microsoft Online Services.
- For reference, you will see a list similar of all the users in Office 365 as shown below.



- · Click next and wait for completion.
- Once the Users are imported, it will look very similar to what is shown below.

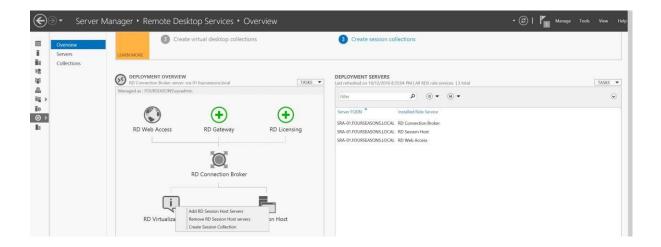






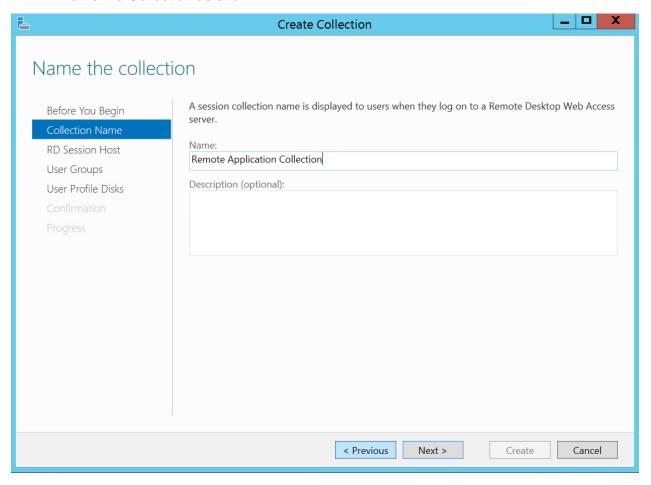
#### 1.2.1.4 Remote Desktop Services

- If you are not familiar with Windows Server Remote Desktop Services(RDS) please refer to:
  - o Welcome to Remote Desktop Services
- Verify you are logged in to SRA-01. This is the primary RDS server.
  - o If anything that has a Green Plus, it needs to be configured.
- Ensure that you have installed the applications the end users will need access to.
- Complete the configuration of RDS by publishing the applications that will be executed remotely.
- Select "Session Host"
- Right Click choose "Create Session Collection" and the wizard will appear.



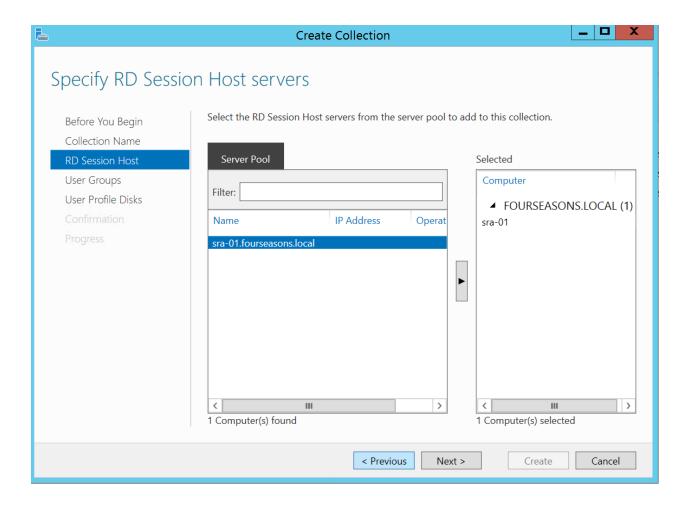


- Click "Next" in the "Before You Begin" page.
- Name the Collection as shown.



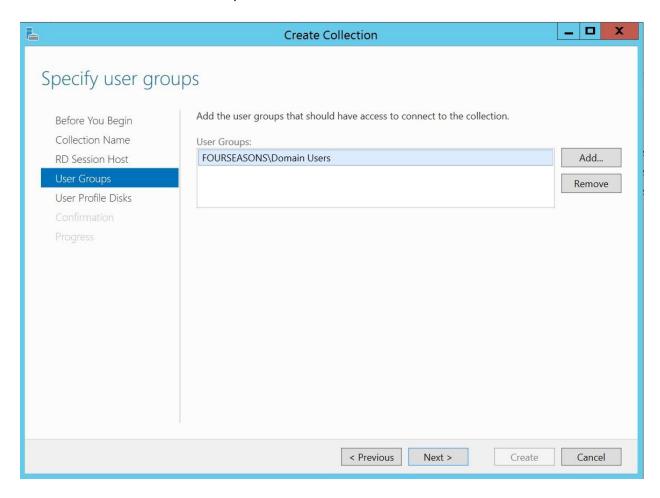


- RD Session Host is configured as part of the original deployment.
- Choose SRA-01 as shown below.
- For larger deployments, ensure SRA-02 and or SRA-03 has RDS services installed and it can be chosen as a Session Host.



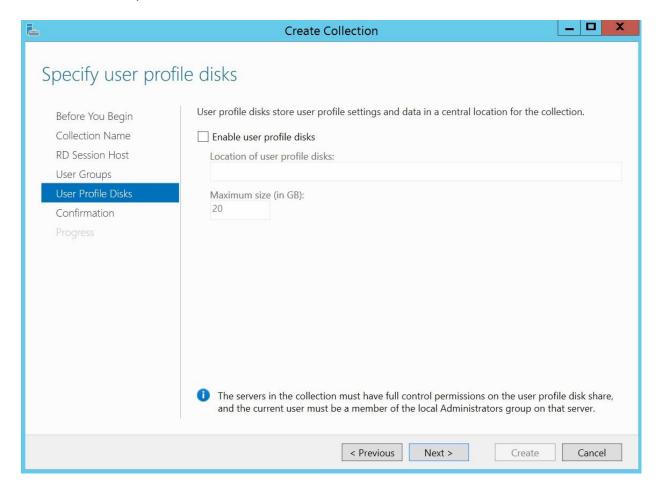


Next Add the "User Groups".



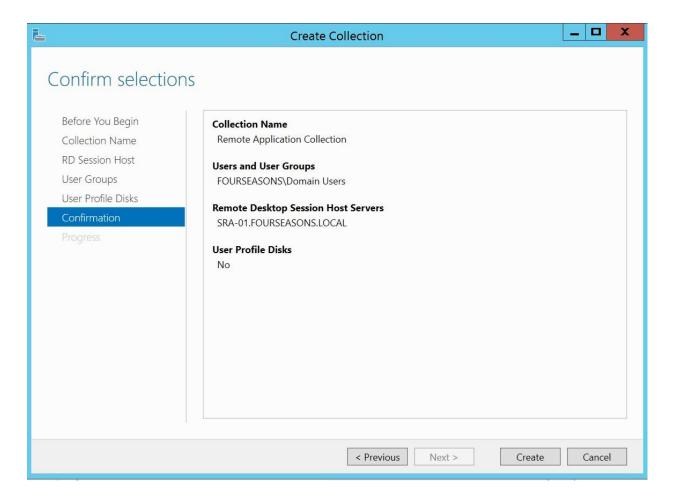


- Decide if you are going to have User profiles.
  - o Ensure there is enough disk capacity on "C" to host all the user profiles
- Once complete click "Next".

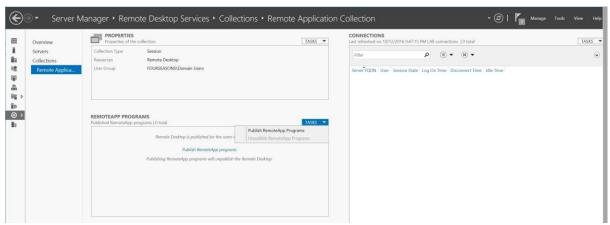




Once you have verified all is correct, click "Create".

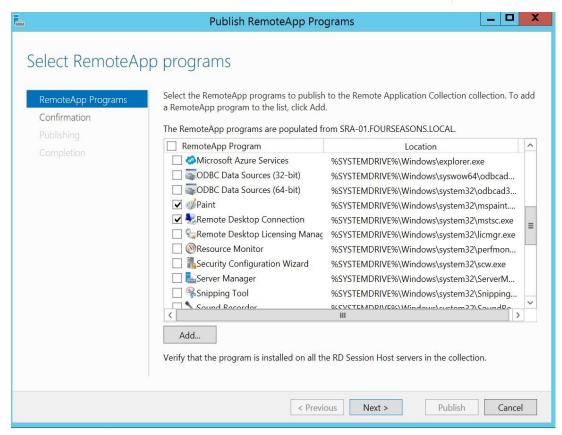


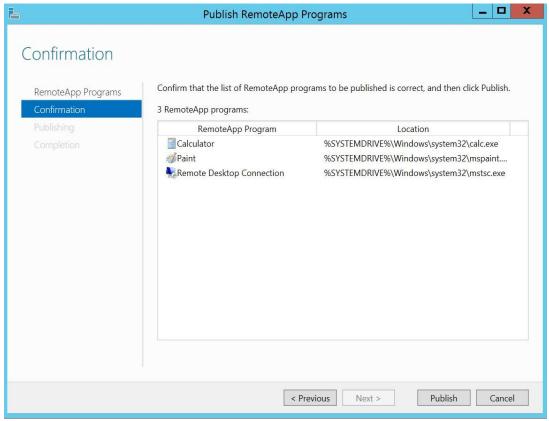
- After creating the collection (which you did previously) you still need to publish the applications you want available to the users that will use Remote Applications.
- Navigate to this screen to "Publish" these applications.
- Once you click on "Publish RemoteApp Programs" a wizard will pop up.



- You will see a list of all the applications that are already installed on SRA-01.
- Choose which applications to publish and click "Next"





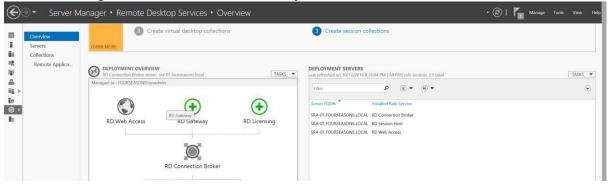


• Click "Publish" and close the wizard.

Next, configure the RDS Gateway SSL Certificate.

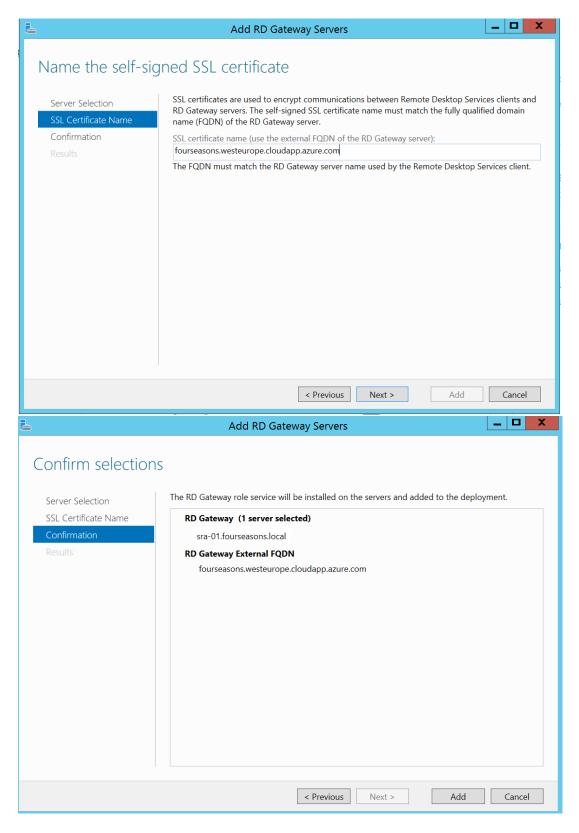


- Navigate back to the RDS screen shown below.
- Right click on the RDS Gateway icon.
  - o It should be pre-configured and colored grey.
- If not, right-click and "Add RD Gateway Services"



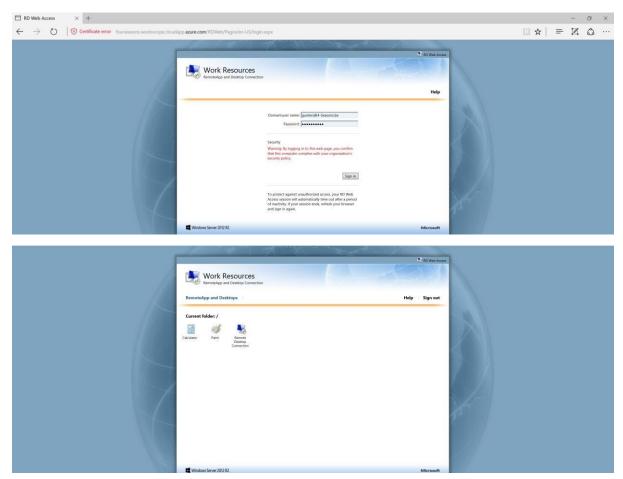


- This is an example of how you would setup SSL for internal and external users would gain access to the RDS portal.
  - Here is a link if you are not familiar on this concept: <u>Configure trusted certificates</u> on RD Connection <u>Broker servers and clients</u>





- When the user navigates to the RD Web portal the users will be able to logon with their user@customerdomain.com User ID and launch his/her applications.
- Once logged in, the users will see the Applications that were chosen and they have access to.





## 1.2.1.5 Alternate & Complementary configurations.

- Remove Windows Essentials role: In case you prefer not to sync users & passwords you can uninstall the Essentials role.
- AD Connect: In case you prefer to manage users through Windows Server AD instead of AAD/OFFICE 365 you can implement AD Connect.
- Office 365 Pro Plus: In case you need Office in the RDS Environment you can deploy Office 365 Pro Plus with the Office Deployment Tool.

If you require further configuration of SRA-01 & SRA-02 you would need to complete it on your own.

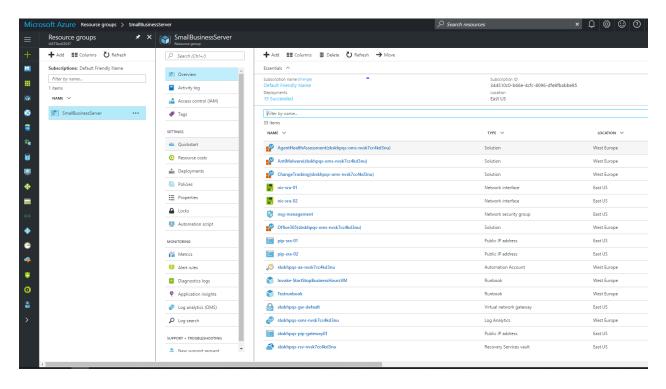
These next steps we will be going back to the Azure portal



## 1.2.2 Automation

#### 1.2.2.1 Details

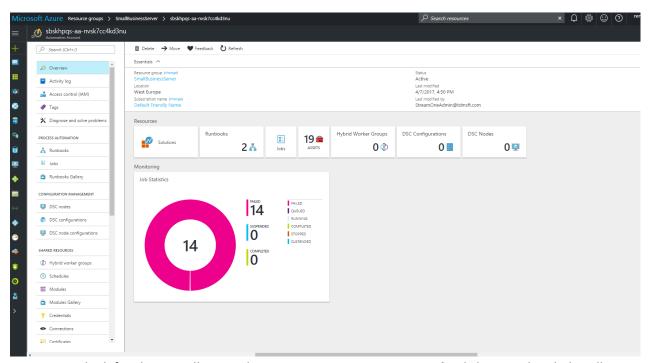
- NO CONFIGURATION IS REQUIRED UNLESS YOU CHOOSE TO CHANGE THE TIMES.
- The Deployment of the VM's in Azure are accomplished via Automation.
  - There is more automation within the Azure Portal itself
- The automation account contains 1 runbook that is scheduled 2 times per day
  - At 9a.m. to start the VM's. At 9p.m. to stop the VM's. You can change the schedules as required.
- This Automation Runbook is located in the Resource Group "SmallBusinessServer"



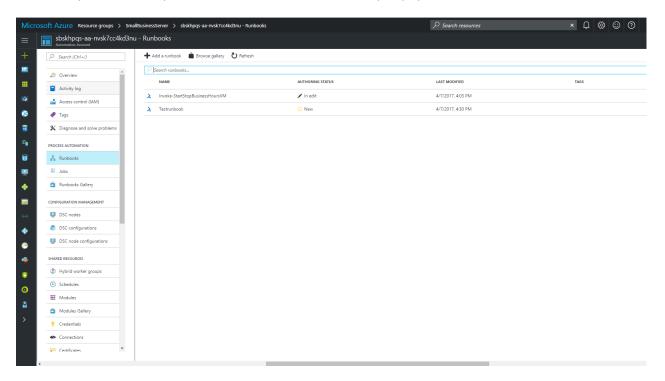
• To further understand what the "Automation" blade does.



o You would need to navigate to

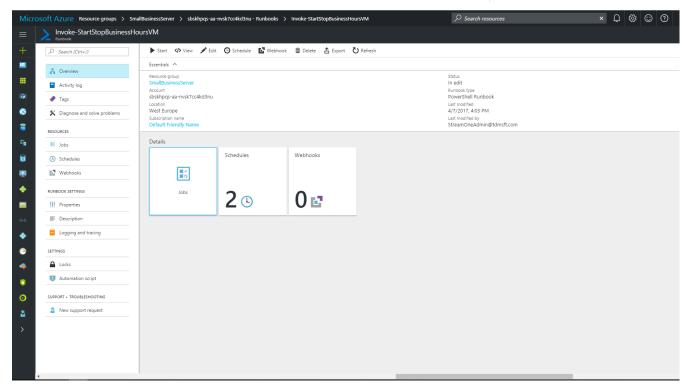


• On the left side you will see under Process Automation, **RunBooks** click on it. The Blade will expand to show you the different runbooks that are pre-populated.



• Click on the Invoke-StartStopBusinessVM. You will see a new blade open. It will show you the Schedule and other information about the runbook. You can do many functions as you can see. Start, View, Edit, Schedule etc... If you want you can add more runbooks to increase the automation.

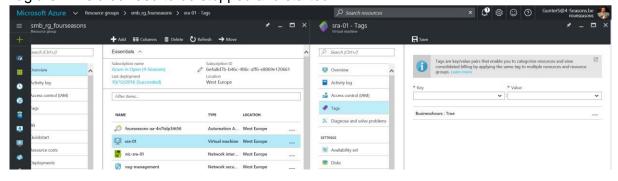




#### 1.2.2.1 Tasks

- Review the schedule and check if it meets the customer's business requirements.
   Otherwise change/add or delete schedules as needed.
- Once you are finished you can exit out by clicking the X in the right corner of the blade.
- To select VM's applicable for this automation they need to be tagged with the "BusinessHours" tag with a value "True".

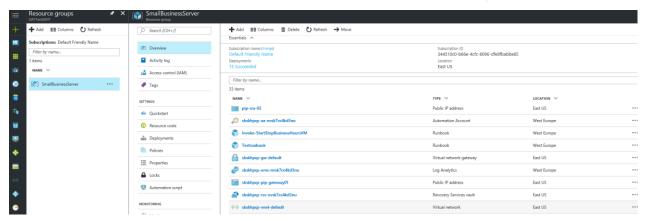
Tag the VM's that need to be stopped and started.



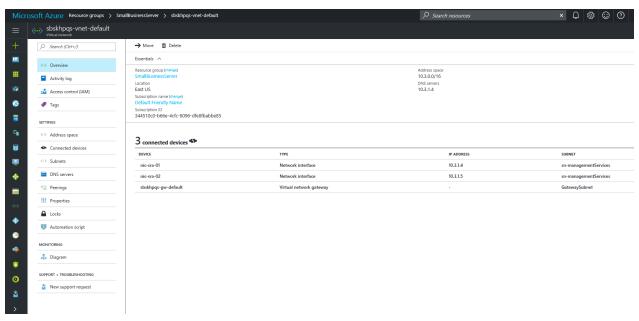
## 1.2.3 Virtual Network

- This is more for your information since no configuring at this point is required.
- When you login to the Azure Portal you will be presented with the SmallBusinessServer Resource Group.
- As pictured below scroll down to highlight sbskhpqs-vnet-default.
- It will say Virtual Network for Type.

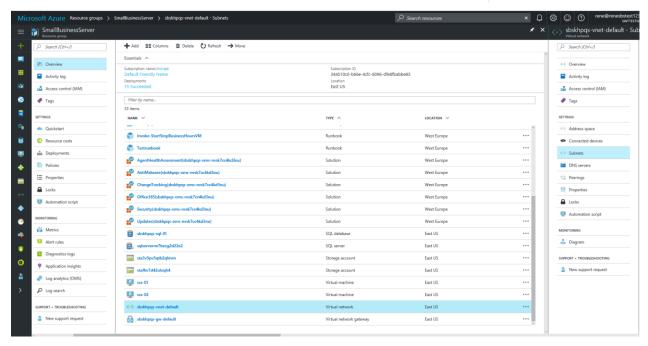




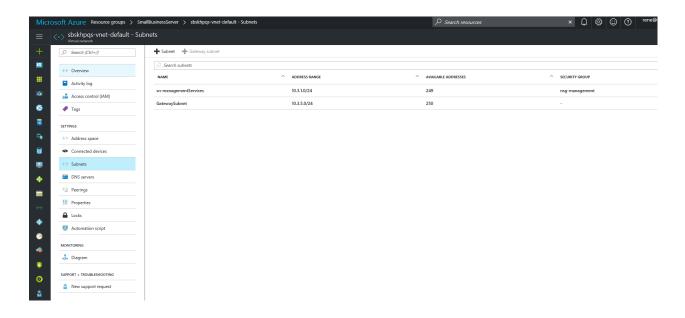
- Click on it and the blade will expand to show the Address Space and the connected devices to it.
- You will see the virtual NIC's for SRA-01 and SR-02 and the Gateway.
- Once complete you can close the blades by clicking on the "X" in the right corner.







- The deployed network consists of 2 Subnets.
- The gateway subnet does not have a linked Network Security Group.

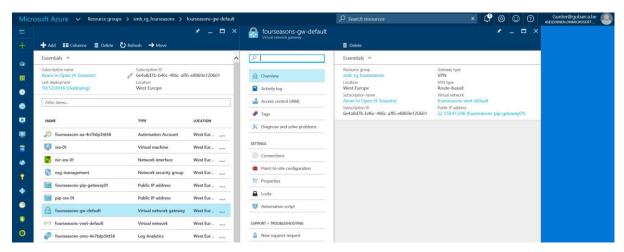




## 1.2.4 VPN Gateway (Optional)

- Creating an Azure VPN Connection is not covered in this guide.
- It is required if you still have on premises resources you plan on having users access.
- You would need to refer to the following links for detailed information:
  - About VPN Gateway
  - o Create a Site-to-Site connection in the Azure portal

Once a VPN connection is created it would similar to the one shown below:



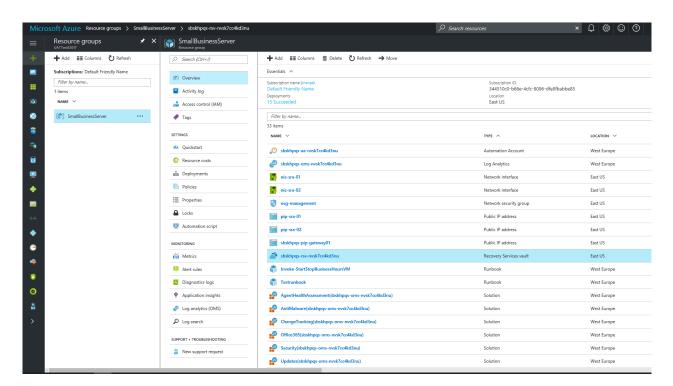


### 1.2.5 Azure Back-Up (Optional but Recommended)

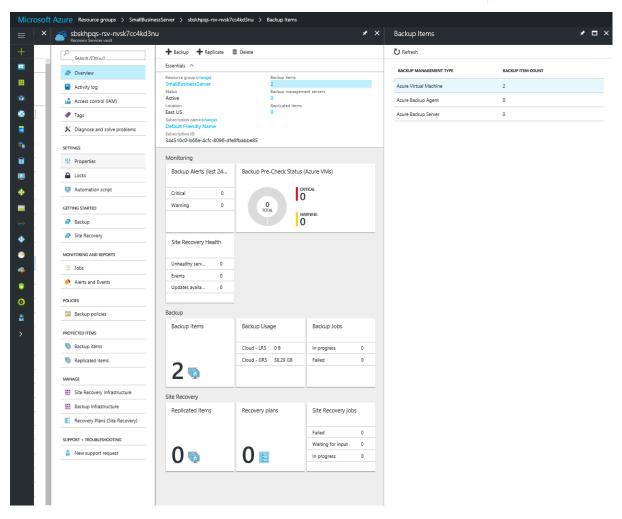
- Azure Back-up (laaS Back-up) has been configured for the VM's running in your resource group.
  - A Default policy is pre-set with retention points (30 days, 104 weeks, 60 months & 10 years).
  - The Daily back-Up is scheduled at 7.30AM.
- More information located here on how to perform Azure Backups:
  - o Back up Azure virtual machines to a Recovery Services vault

### 1.2.5.1 Post Provisioning Tasks

- When you login to the Azure Portal you will be presented with the SmallBusinessServer Resource Group.
- Scroll down until you see Recovery Services Vault as the Type pictured below.

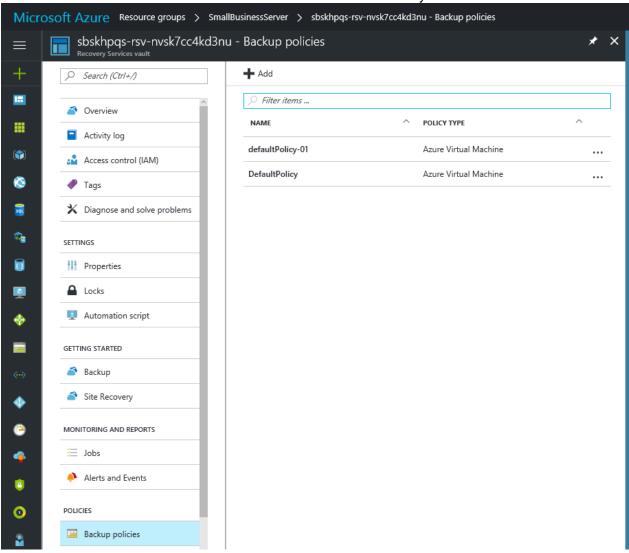


- Click on it and the blade will expand
- Check Back-Up Schedule.



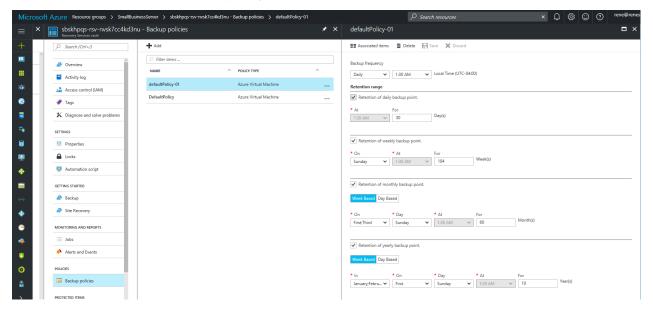


- Next highlight Backup Policies
- You will see there are two Policies. Click on deafaultPolicy-01

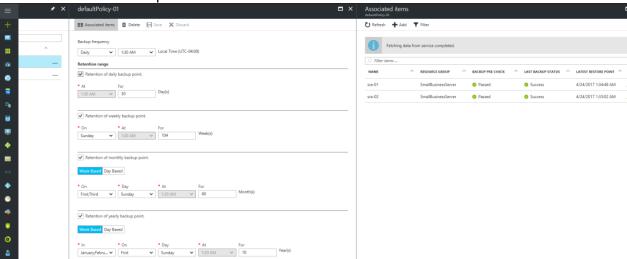




You will see the retention policy for SRA-01 and SRA-02



- Highlight Associated Items
- The blade will expand and show the VM's

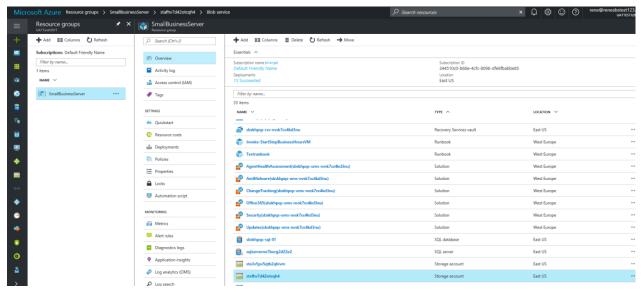


• Once you are finished, close the blade by choosing the X in the right corner.

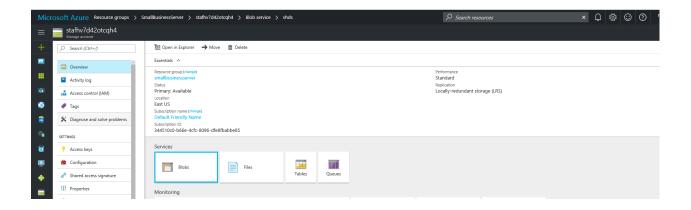


### 1.2.6 Azure Storage

- This section is for your information and no configuration is required.
  - o A Storage Account (Standard Storage LRS is provisioned) for each VM.
  - o You will see two Storage accounts in the Azure Portal
  - o You will click on the Storage Account highlighted

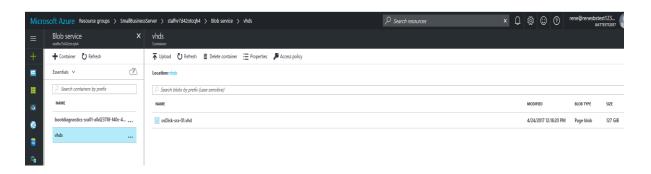


- Next you will see the blade expand
- Click on Blobs





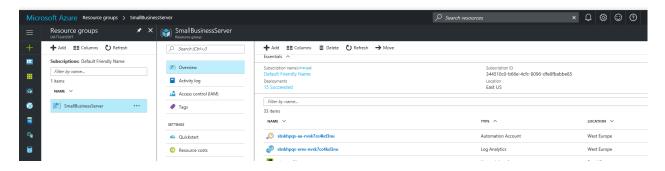
- The blade will expand to show you the storage information for the SRA-01 VHD.
  - The other storage group not selected would show you the information for SRA-02
- Once you are finished you can close the blade by choosing the X in the right corner.





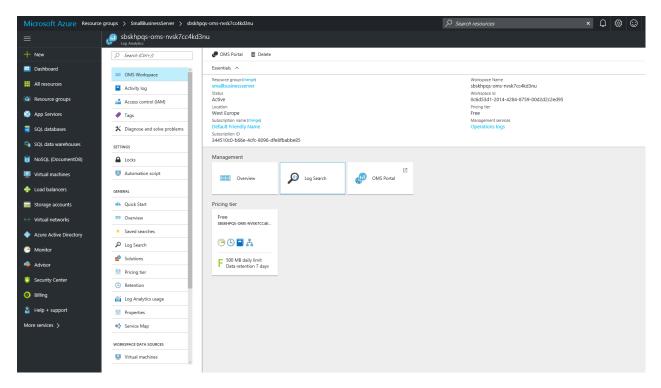
### 1.2.7 Operations Management Suite (OMS) Log Analytics

- With Log Analytics you can gain deeper insights into your customer's environment using Azure.
  - o Learn More Here on OMS
- This agent can be installed either on an Azure VM or an on premises VM or physical machine. It will allow you to tie all this together.
- The agent can look inside of the actual VM and tell you what is going on.
  - You can install the agent on Windows and Linux Servers.
- You can access the Operations Management Suite (OMS) workspace through the Resource Group and looking at Type then Log Analytics.



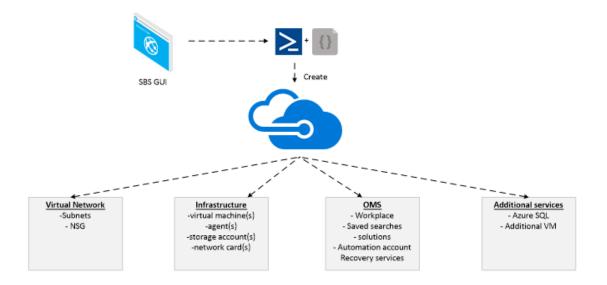


- Once you have chosen the Log Analytics the blade will expand.
- As you can see from the screen shot, you have the ability to see different items.
- The Overview will give you a snapshot of how the Azure laaS VM's are doing
- Log Search will allow you to search the logs that are gathered
- OMS Portal is a separate Portal that you will need to login using the same credentials you logged into the Azure Portal with
- Pricing for this is free.
  - o It allows you only 500mb of logs to be ingested into OMS for day.
  - The logs are only kept for 7 days.
  - o There are other tiers you can have
    - <a href="https://www.microsoft.com/en-us/cloud-platform/operations-management-suite-pricing">https://www.microsoft.com/en-us/cloud-platform/operations-management-suite-pricing</a>





# SBCS blueprint deployment



SBCS Blueprint also provides possibilities to deploy a set of azure resources.

The resources can be deployed using the graphical user interface or directly using PowerShell. The different resources are grouped together in different templates. A mean template will then call out to those templates. Below you can see how the different resources are grouped to logical components as:

- Virtual Network
- Infrastructure
- OMS
- additional services

# 1.3 SBCS Categorization

The categorization allows you to differentiate on the number of the resources as well on the size of those resources.

Example: 1 or more servers in the deployment model depending on the company size Example: A Standard DS1 v2 (basic VM) or a more powerful VM size like Standard DS3 V2

The deployment serves as a starting point and is by no means limited to the set of resources deployed by the SMB blueprint solution below you can find an overview of the different sizes.

table: categorization			
Size	# users	# of servers	server type
Small	=< 5 users	1	Standard_DS1_v2 (1 CPU - 3.5 GB RAM)
Medium	=< 20 users	1	Standard_DS2_v2 (2 CPU - 7 GB RAM)
Large	=< 50 users	3	Standard_DS4_v2 (8 CPU - 28 GB RAM)

Note that there is no increase in the number of servers between a small and medium deployment.



In the following sections, we will elaborate on the resources deployed per category, but independent of the categorization a standard set of resources are deployed.

For example, a virtual machine always needs a storage account and a network card. The following resources will be deployed regardless of the type of deployment.

## 1.4 Common Resources

### 1.4.1 Network

Resource Category	Description
Network	The virtual network. The virtual network has a fixed IP range set to 10.3.0.0/16.
NSG	Network security groups (ACL) to protect the different subnets in the virtual network
Network Card	Per virtual machine a network card is deployed to enable communication
Public IP	A public IP address is created and assigned to each network card. A public IP enables external communication

### 1.4.2 Infrastructure

Resource Category	Description
storage account	A storage account per VM. the storage account will hold the vhd file(s) that hold the OS and the extra data disks
Primary VM	The virtual machine that will host the ADDS, DNS and RDS roles



# 1.4.3 Operations Management

Resource Category	Description
OMS workspace	One storage account per VM. the storage account will hold the vhd file(s) that hold the OS and possible extra data disks
Automation Account	The virtual machine that will host the ADDS, DNS and RDS roles

# 1.4.4 Size Specific Resources

### 1.4.4.1 Small and Medium

The small and medium deployments only differ in compute sizes and not in resources. The default resources deployed are:

Resource Category	Description
virtual machine	The primary virtual machine. (sra-01)
storage account	The storage account containing the vm vhd's
network card	The network card attached to the virtual machine (nic-sra-01)
public ip	The public IP attached to the network card to enable communications (pip-sra-01)
virtual network	The virtual network with a default addressprefix 10.3.0.0/16. (customername-vnet-default)
network security group	The acl linked to the vnet subnet (nsg-management)
oms workspace	The oms workspace (customername-oms-uniqueid)
automation account	The automation account containing the sample script to start\stop vms (customername-aa-uniqueid)

NAN	IE .
ij.	inovativbe125-aa-xwm25kl6ejbhm
ů.	sra-01
ā	nic-sra-01
	nsg-management
<i></i>	pip-sra-01
<del>(··&gt;</del>	inovativbe125-vnet-default
	inovativbe125-oms-xwm25kl6ejbhm
Ø	AgentHealthAssessment(inovativbe125-oms-xwm25kl6ejbhm)
Ø	AntiMalware(inovativbe125-oms-xwm25kl6ejbhm)
Ø	ChangeTracking(inovativbe125-oms-xwm25kl6ejbhm)
Ø	Office365(inovativbe125-oms-xwm25kl6ejbhm)
Ø	Security(inovativbe125-oms-xwm25kl6ejbhm)
<b>₽</b>	Updates(inovativbe125-oms-xwm25kl6ejbhm)
	sta2ao4lqqjcab6m

## 1.4.4.2 Large

In a large deployment, additional VMs are deployed to host the possible load of users connecting.

Resource Category	Description
Virtual machine 1	The primary virtual machine. (sra-01)
Storage account 1	The storage account containing the vm vhd's (stauniqueid)
Network card 1	The network card attached to the virtual machine (nicsra-01)
Public IP 1	The public ip attached to the network card to enable communications (pip-sra-01)
Public IP 1  Virtual machine 2	•
	communications (pip-sra-01)



Resource Category	Description	
Public IP 2	The public ip attached to the network card to enable communications (pip-sra-02)	
Virtual machine 3	The third virtual machine. (sra-03)	
Storage account 3	The storage account containing the vm vhd's	
Network card 3	The network card attached to the virtual machine (nicsra-03)	
Public IP 3	the public ip attached to the network card to enable communications (pip-sra-03)	
Virtual machine jumpbox	A jumpbox virtual machine. (sra-jumpbox))	
Storage account jumpbox	The storage account containing the vm vhd's (stauniqueid)	
Network card jumpbox	The network card attached to the virtual machine (nic-sra-jumpbox)	
Public IP jumpbox	The public ip attached to the network card to enable communications (pip-sra-jumpbox)	
Virtual network	The virtual network with a default addressprefix 10.3.0.0/16. (customername-vnet-default)	
Network security group	The acl linked to the vnet subnet (nsg-management)	
OMS workspace	The oms workspace (customername-oms-uniqueid)	
Automation account	The automation account containing the sample script to start\stop vms (customername-aa-uniqueid)	



# NAME inovativbe136-aa-qoxba7ccbr4ha sra-01 sra-02 sra-03 sra-04 sra-jumpbox nic-sra-01 nic-sra-02 nic-sra-03 nic-sra-04 nic-sra-jumpbox nsg-dmz nsg-emergency nsg-management pip-sra-01 pip-sra-02 pip-sra-03 pip-sra-04 pip-sra-jumpbox inovativbe136-vnet-default inovativbe136-oms-qoxba7ccbr4ha AgentHealthAssessment(inovativbe136-oms-qoxba7ccbr4ha) AntiMalware(inovativbe136-oms-qoxba7ccbr4ha) ChangeTracking(inovativbe136-oms-qoxba7ccbr4ha) Office365(inovativbe136-oms-qoxba7ccbr4ha) Security(inovativbe136-oms-qoxba7ccbr4ha)

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RESOL

#### 1.4.5 Additional Resources

The foremost important additional service provides native backup capabilities. If opted in for the recovery services, all VMs in the default deployment and any additional VMs deployed using the SMB Blueprint fast track solution are onboarded.

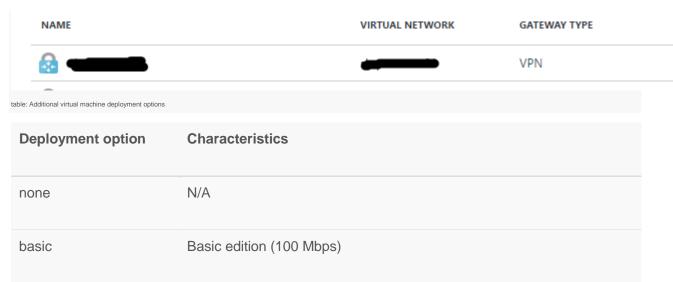
In addition, a default policy is created and assigned to the VM's.



#### 1.4.5.1 VPN Gateway

- If a hybrid scenario is needed (on-premise and Azure resources connected) a VPN connection needs to be established.
- The VPN will be deployed in a reserved subnet. The reserved subnet is named Gateway subnet.
- The default deployment already foresees the subnet and provides an ip range.

A VPN gateway exists in different SKU's, but only the sku's below are deployed using the SBCS Blueprint:



After deployment additional configuration is needed

Local networks and establishing the VPN connection is a manual configuration after deployment. A guide on the configuration can be found on the <u>Microsoft Azure documentation center</u>

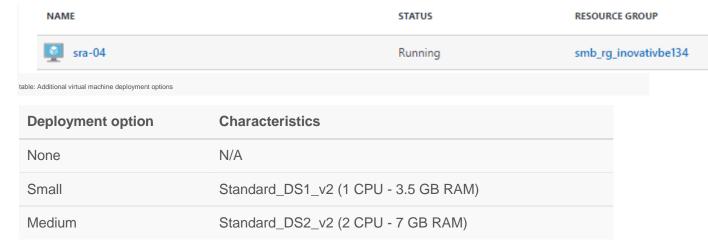
Note: A VPN gateway deployment takes around 45 minutes.

#### 1.4.5.2 Additional Virtual Machines

In addition to the default infrastructure being deployed, you also have the option to deploy an additional virtual machine. This enables organizations to deviate from the deployment characteristics determined by the size of the company.

If you opted in on Azure recovery services to provide backup capabilities the virtual machine will also be on boarded.





#### 1.4.5.3 Azure SQL Database

The deployment foresees the possibility to deploy an Azure SQL database in addition of the default infrastructure deployment.

NAME	STATUS	REPLICATION ROLE	SERVER
inovativ136-sql01	Online	None	inovativ136-sql01
table: Azure SQL deployment options			
Deployment option	Characteristics		
None	N/a		
Small	Basic edition		

### 1.4.5.4 Storage Type

Note: in the large deployment, the jumpbox VM is always configured with Standard\_LRS storage