





TFS on Azure laaS Supplement – Improve performance for remote teams with TFS Proxy Server

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Improve performance for remote teams with TFS Proxy Server

Introduction

This addendum is a supplement for the main TFS on Azure laaS guide, which delivers practical and scenario based guidance for the implementation of Team Foundation Server (TFS) on Azure laaS.

Context

In this supplement, we improve performance for remote teams with TFS Proxy Server in the Windows Azure proof of concept instance as introduced in the main guide.

We are creating a TFS Proxy Server in the same subscription as our TFS Farm. This is a choice and you can use a different subscription if you like.

We wrote this walkthrough to use certain objects that we created for the TFS Farm deployment. If you create a TFS Proxy in a different subscription, you will need to duplicate the following objects in that subscription before proceeding:

- DNS Server registration
- Local Area Network



Use this supplement in conjunction with its companion guides "TFS Planning Guide" and TFS on Azure laaS".

What you'll need

Windows Azure proof of concept instance as introduced in the main guide

Visual Studio ALM Rangers

The Visual Studio ALM Rangers provide professional guidance, practical experience and gap-filling solutions to the ALM community. They are a special group with members from the Visual Studio Product group, Microsoft Services, Microsoft Most Valuable Professionals (MVP) and Visual Studio Community Leads. Membership information is available online¹.

Additional ALM Rangers Resources

Understanding the ALM Rangers – http://aka.ms/vsarunderstand
Visual Studio ALM Ranger Solutions – http://aka.ms/vsarsolutions



Walkthrough

Overview

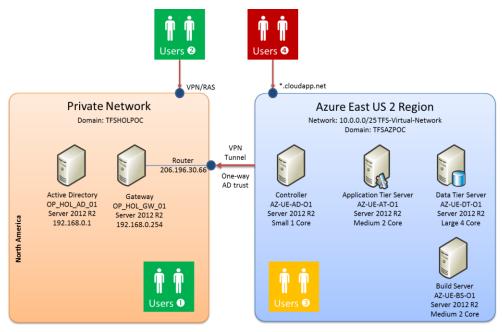


Figure 1 - Proof of concept instance

In this walkthrough, we will add a TFS Proxy in the North Europe region to improve performance for teams in the European region.

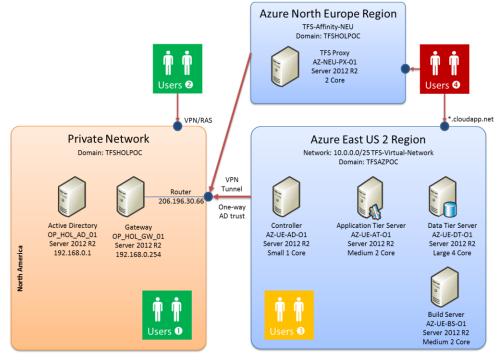
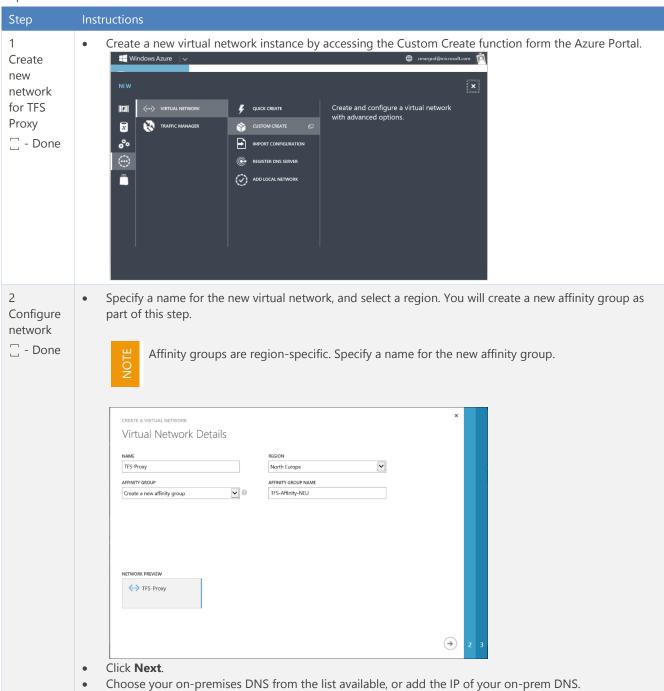


Figure 2 - TFS Proxy in Europe region



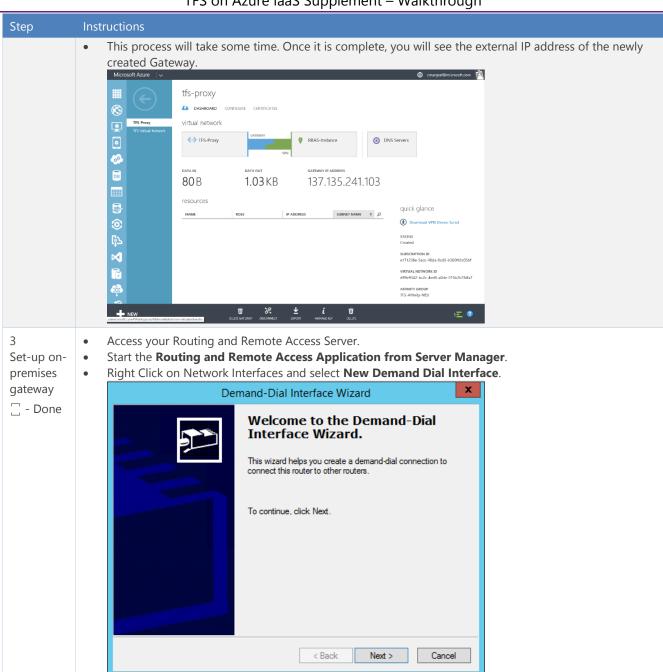
Update the Network





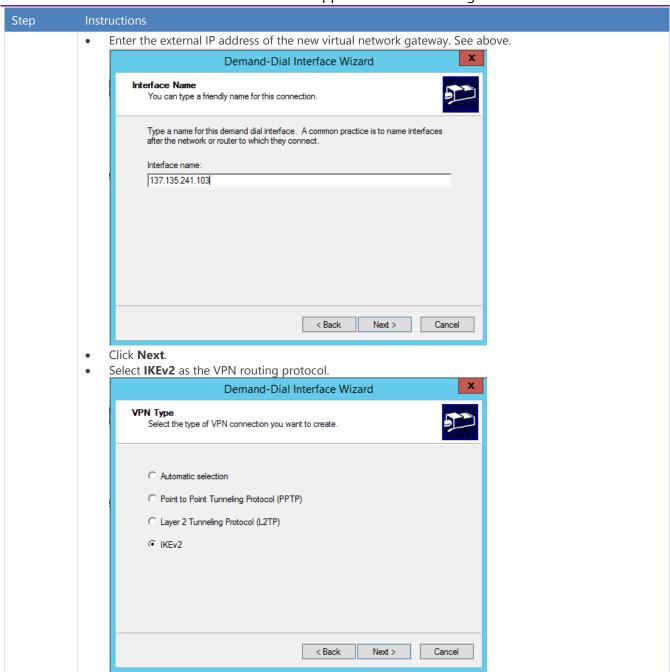
Check only the box Configure Site to Site VPN. Choose your local network. The IP you selected for your DNS server must be available on this network's address range. DNS Servers and VPN Connectivity DNS SERVERS 🕖 POINT-TO-SITE CONNECTIVITY PREVIEW Configure a point-to-site VPN OnPremDNS 192.168.0.1 SITE-TO-SITE CONNECTIVITY SELECT OR ENTER NAI > IP ADDRESS Configure a site-to-site VPN RRAS-Instance NETWORK PREVIEW Click **Next** Assign a virtual address space that is unused. In this case, we are using the 172.16.0.0 range of IPs. Click Add Gateway Subnet. Virtual Network Address Spaces USABLE ADDRESS RANGE 172.16.0.0/12 172.16.0.0 /12 (1048... 172.16.0.0 - 172.31.255.255 SURNETS 172.16.0.0 /15 (1310... 172.16.0.0 - 172.17.255.255 172.18.0.0 172.18.0.0 - 172.18.0.7 Gateway /29 (8) < → TFS-Proxy RRAS-Instance DNS Servers $\leftarrow \lor$ Click Next to Finish the Wizard.

On the Dashboard page for the newly created Virtual Network, click Create Gateway.



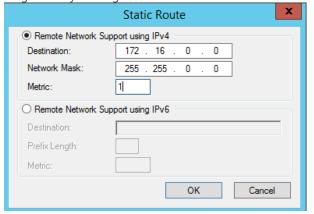


Click Next.

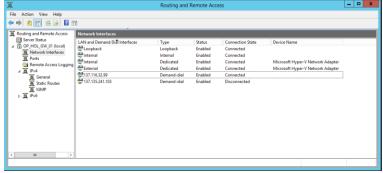


Step Instructions

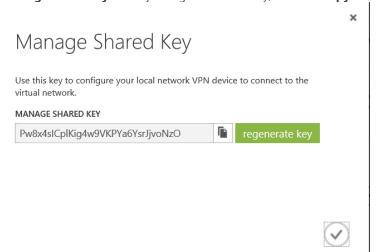
• Enter the starting IP of the virtual network you configured above and the subnet mask that matches the range of IPs you assigned. Enter 1 for **Metric**.



- Click OK.
- The new network interface should display in the list with a status of Disconnected. Before connecting the VPN tunnel, you need to specify the Shared Key that you will get from the Azure Management Portal.



- Select the new Virtual Network from the Azure Management Portal and view the Dashboard.
- Click on Manage Shared Key at the bottom of the page.
- Click **Regenerate Key**. Once you regenerate the Key, click the **Copy** button.



- On the on-premises Routing and Remote Access server, launch Routing and Remote Access.
- Right click on the network interface you have just created and select properties. Navigate to the Security tab.
- Select Use a preshared key for authentication. Paste the shared key value you copied to the clipboard.



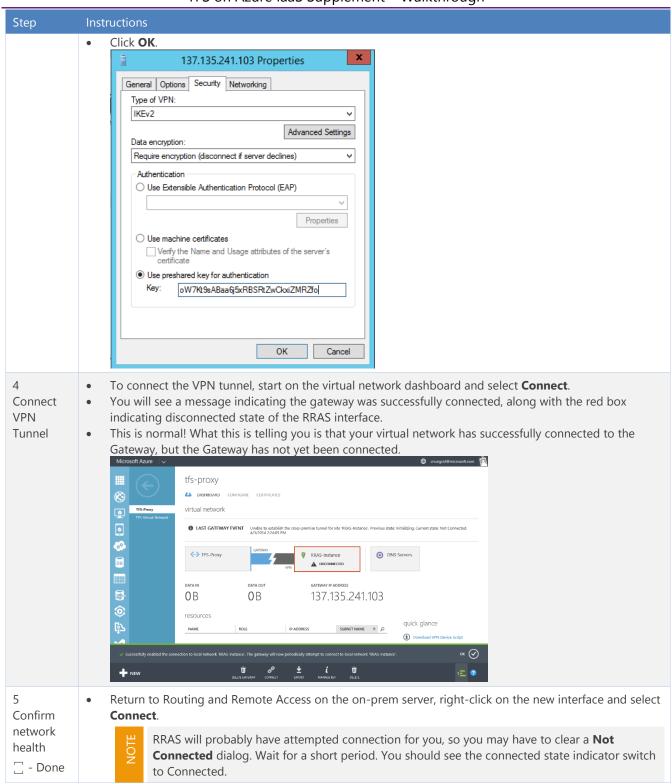
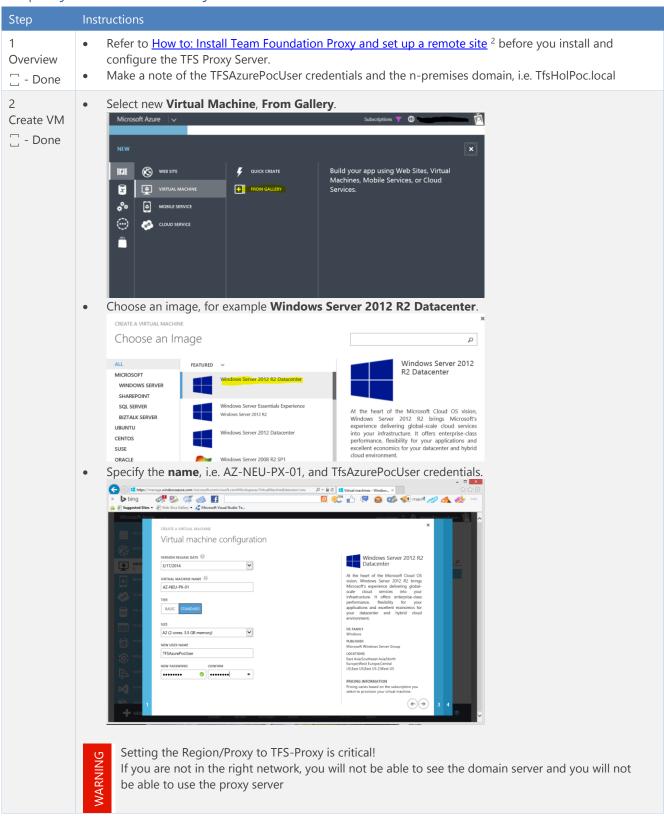


Table 1 – Update the network for the TFS Proxy Server

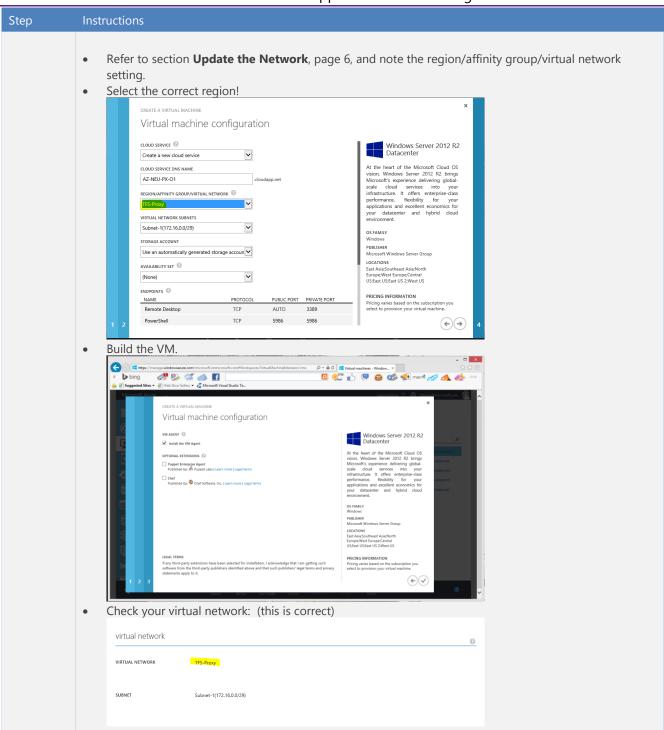


Deploy the TFS Proxy Server

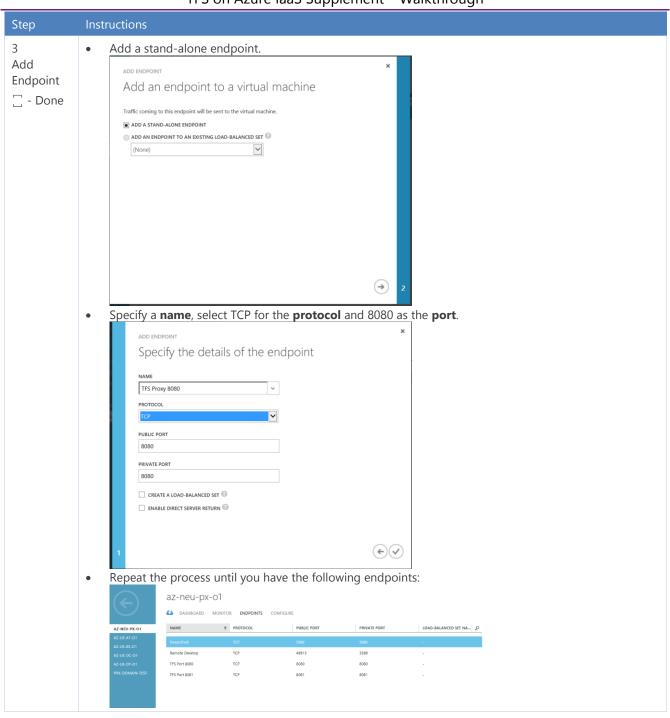


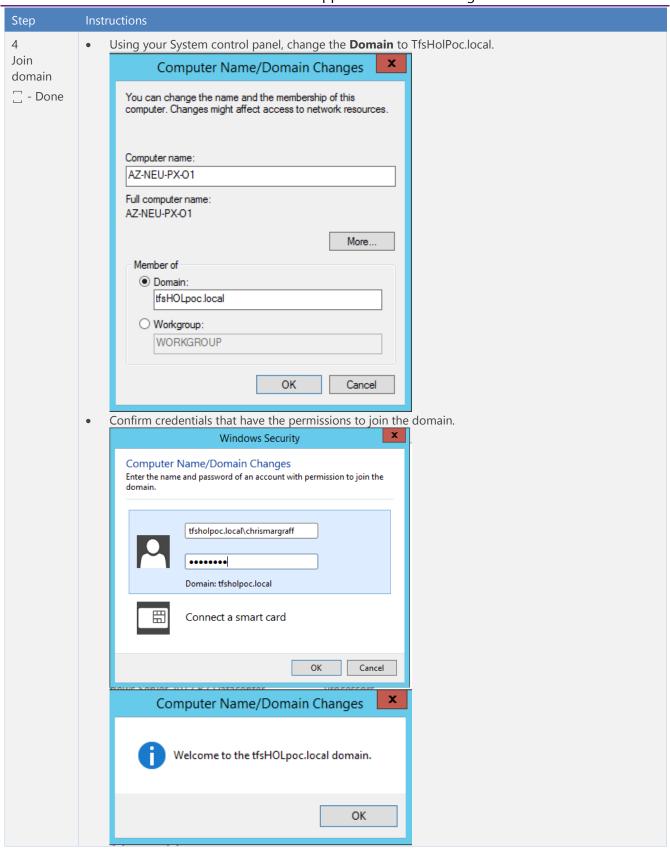
 $^{^2\} http://msdn.microsoft.com/en-us/library/ee248710.aspx$



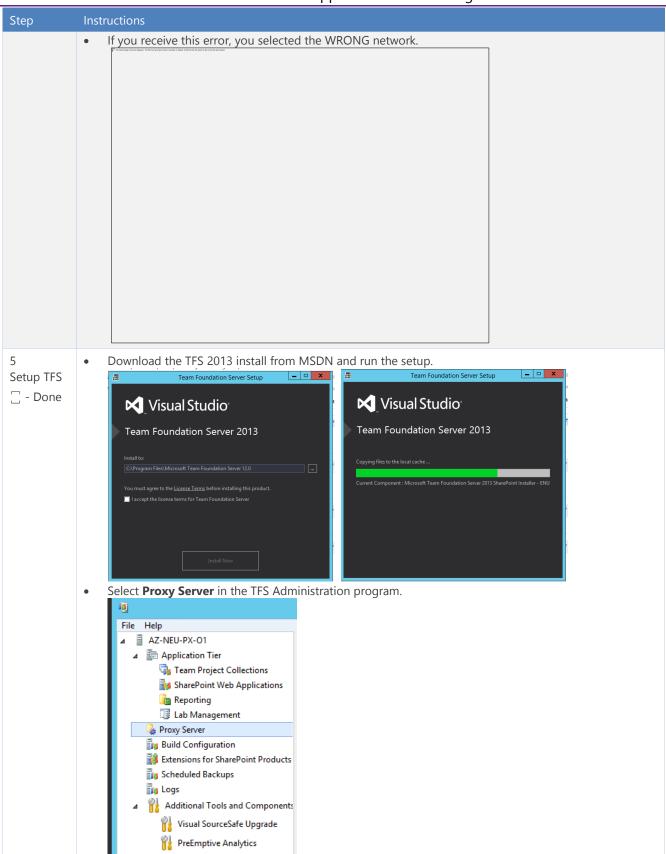




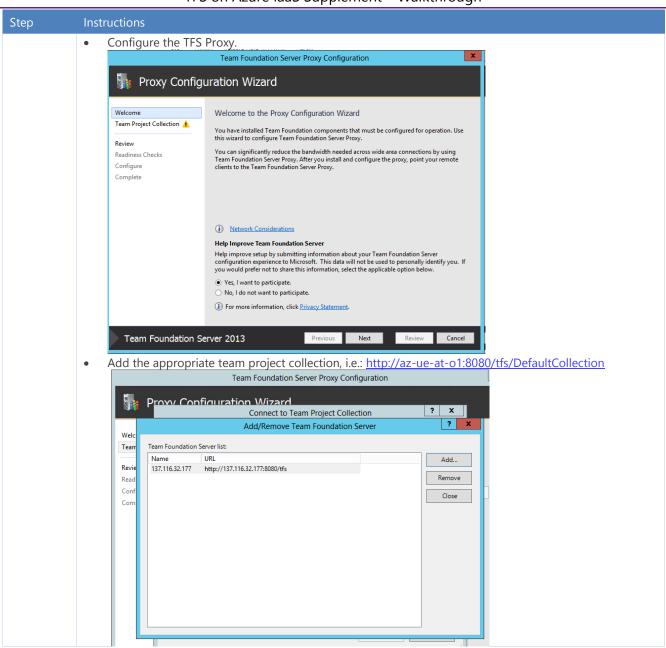




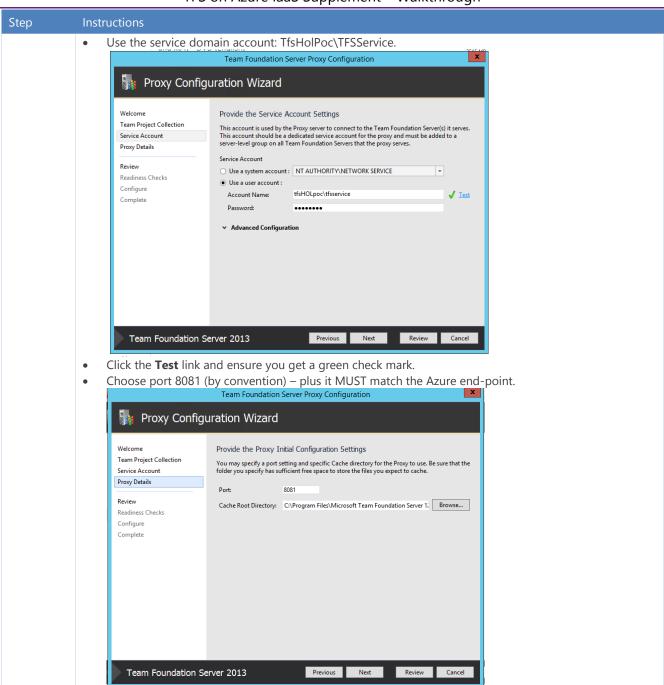




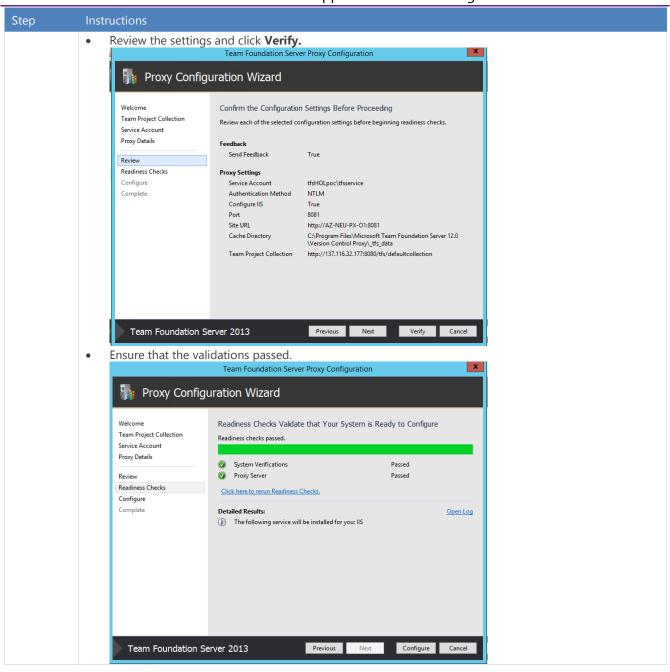




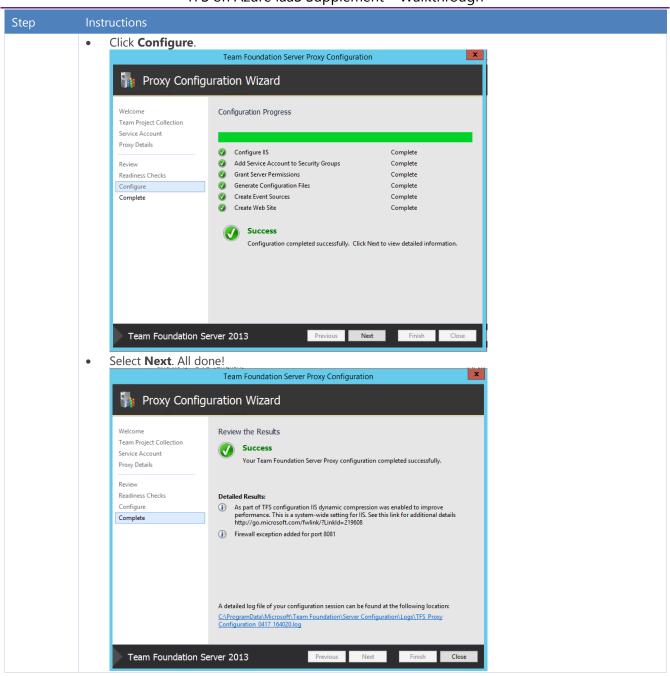


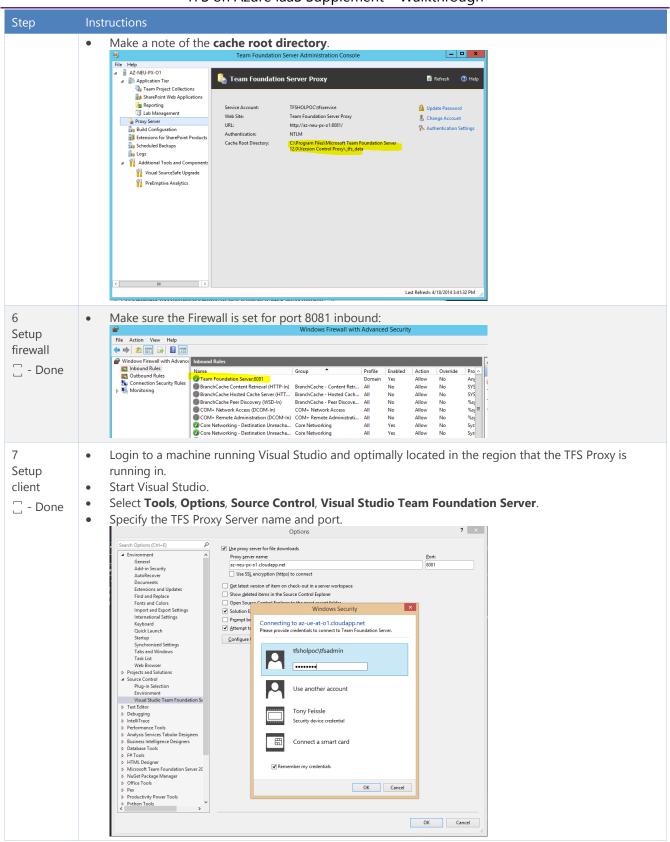














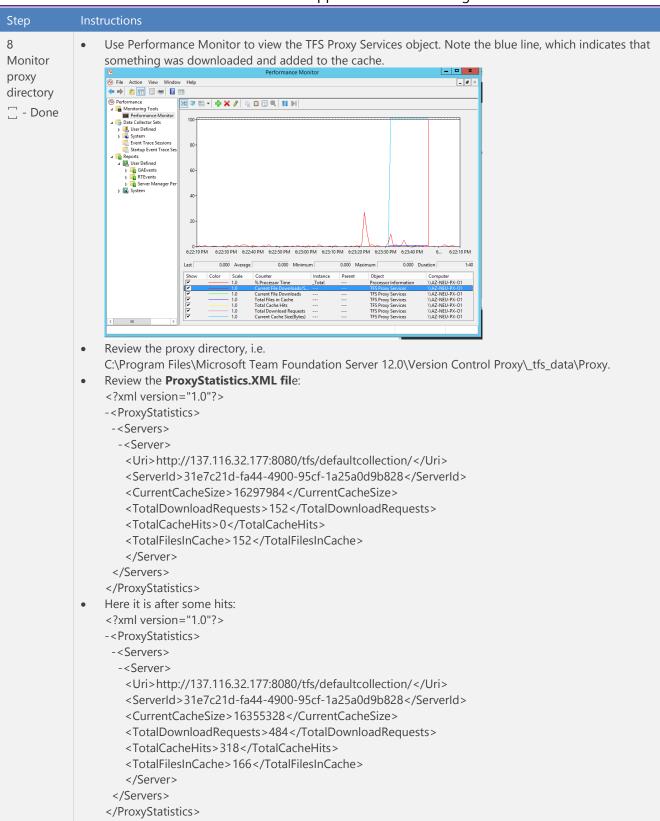


Table 2 - Deploy the TFS Proxy Server

