

Technical Overview: Workflow Proxy Server

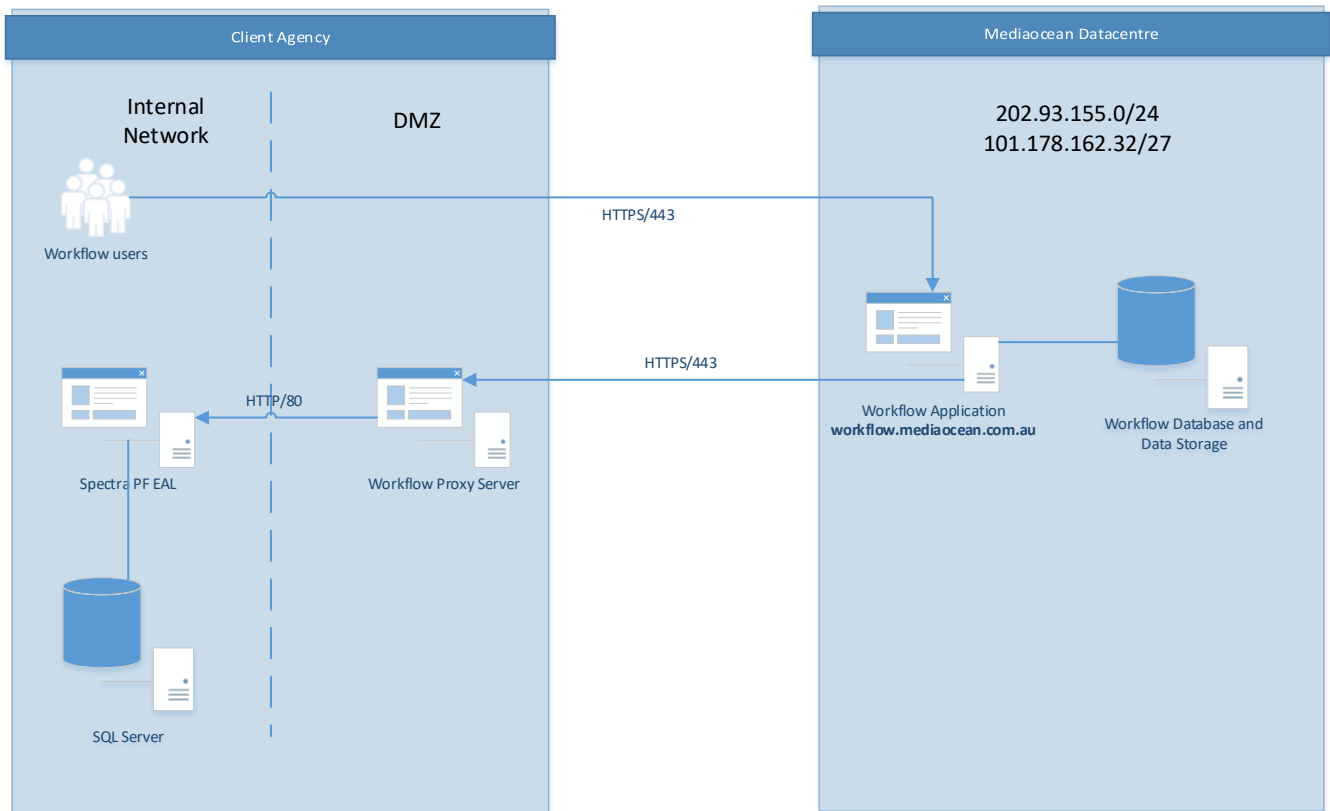
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Summary

Workflow proxy server provides a secure way of communication between the cloud datacentre where workflow application is hosted and the client environment to pull the data from SQL.

Network Requirements

Below is the network diagram, port requirements and associated IP addresses for the Mediaocean Workflow configuration



Firewall Requirements

Source	Destination	Destination Port(s)	Description
Client Internal Network	Proxy Server (Internal or DMZ)	TCP 443 TCP 4848 TCP 3389	Services available for Mediaocean Technical Support to administer and maintain the workflow proxy server
202.93.155.0/24 101.178.162.32/27 59.167.224.0/24	Proxy Server (External)	TCP 443	Workflow Application at the datacentre to communicate with the proxy server on premise
Proxy Server	Spectra PF Application Server (Internal)	TCP 80 TCP 443	Workflow proxy to communicate with Spectra PF Application server (EAL)
Proxy Server	Internet	TCP 80	Download Windows updates
Proxy server	ftp.mediaocean.com.au	FTP	Download necessary packages for installation.
Client Internal Network	202.93.155.0/24 101.178.162.32/27	TCP 443	Clients to access Workflow web application. Normally this is already opened by default for internet browsing.

SSL Certificate and Public Domain Name Requirements

SSL certificate is required to be installed on the proxy server to provide secure connectivity between the datacentre and the proxy.

- A public domain name which resolves to the external IP of the proxy server which (e.g. eal.company.com.au)
- An SSL certificate from publicly trusted authority covering the above domain name must be purchased
 - Thawte, Verisign and Digicert certificates have been tested and are recommended, however other public SSL certificates from GoDaddy, Comodo, RapidSSL etc can be used.
 - A wildcard SSL Certificate can be used.
 - Must not be a self-signed SSL certificate.

Server Hardware Specs Requirements

A virtual machine with the following parameters will need to be created:

- 2 x CPU Core
- 6GB of RAM
- 80GB of disk space.
- OS: Windows 2016 Server Standard with latest updates and service pack installed

Web Browser Requirements

The following web browsers are supported by workflow

- Internet Explorer v9 and above (IE9, IE10, IE11)
- Chrome
- Safari
- Firefox

Steps to Deploy Workflow Proxy Server VM

Action	Responsible Party
Create a new Windows 2016 Server	Client
Set up network rules on firewall and assign IP address to the server	Client
Generate and supply CSR that can be used to apply for a Public SSL certificate (this can only be completed once the domain name is known)	Mediaocean
Provide SSL certificate based on generated CSR	Client
Deploy and configure workflow proxy services on the newly created server	Mediaocean
Configure database and enable workflow services (for new deployments or migrations)	Mediaocean
Test Workflow	Mediaocean / Client