**Discovering the Value of**

**IBM API Management 2018**

*TEC setup and instructor guide*

*OVA Installation method (from scratch)*

API Management v2018.1

# TEC setup instruction

## Who should be using this document?

This document and installation method should only be used by technical whose needs dictate the creation of POC environment from scratch.

## Hardware Requirements

For each participant you need a minimum of:

* An Intel or compatible system consisting of the following components:
  + 1.6 GHz or greater processor
  + 25 GB Hard
  + 14 or 16 GB core host RAM (1.4GB dedicated to image at runtime)
  + Keyboard
  + Mouse
  + Display (image set to 1024x768)
  + Netword adapter (not needed at this time)

## System requirements

IBM API Management virtual appliances are supported in three hosting environments: VMware, Xen, and IBM PureApplication Systems.

IBM API Management requires four appliances (gateway, management, analysis and advancedportal). Each of four appliances requires 4GB of RAM, so a machine with at least 16GB of RAM is recommended to leave capacity for other applications.

Installation can be achieved with 16GB of RAM if you reduce the RAM allocated to each image in VMware. This has been tested with the following settings:

* Gateway server: 4GB RAM
* Management server: 4GB RAM
* Portal: 2GB of RAM
* Analysis: 4GB of RAM
* 1 CPU and 2 cores per CPU on each virtual machine

## Connectivity requirements

### Load Balancing

This document is targeted to an IBM API Management cloud on a laptop for demo and educational purposes so we will assume only one DP appliance will be used and external load balancing across multiple DataPower appliances is not required.

### Static IP addresses

|  |  |
| --- | --- |
| **Purpose** | **IP Address** |
| Management | 9.9.9.100 |
| Gateway | 9.9.9.101 |
| Analysis | 9.9.9.102 |
| Developer Portal | 9.9.9.103 |

## Setting up the software images on you workstation

This section will guide you through the basic steps to setup a single student workstation image. In summary, you will need to:

* Download the required software images
* Enable the Windows host NTP service
* Configure the VMWare NAT subnet address

## Download installation and workshop images

Always install the latest version of API Management. Images can only be downloaded from Passport Advantaged (PAO).

For the workshop download and use the following **OVA** files from PAO:

* IBM DataPower Gateway Virtual Edition *(idg7700.prod.ova)*
* IBM Management Appliance *(apiconnect-management.ova)*
* IBM Developer Portal *(apiconnect-portal.ova)*