

Module 6: Assignment – 4

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Essentials

Network interface	: vm157_z3	Load balancers	: 0 (Configure)
Virtual network / subnet	: vm-vnet / default	Application security groups	: 0 (Configure)
Public IP address	: 20.9.142.7	Network security group	: vm-nsg
Private IP address	: 10.0.0.4	Accelerated networking	: Disabled
Admin security rules	: 0 (Configure)	Effective security rules	: 0

Rules

Network security group vm-nsg (attached to networkinterface: vm157_z3)

Impacts 0 subnets, 1 network interfaces

Create port rule

Search rules

Source == all Destination == all Protocol == all Action == all

Priority	Name	Port	Protocol	Source	Destination	Action
Inbound port rules (4)						
300	SSH	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny
Outbound port rules (3)						



Add inbound security rule

vm-nsg



Source ⓘ

Any

Source port ranges * ⓘ

*

Destination ⓘ

Any

Service ⓘ

HTTP

Destination port ranges ⓘ

80

Protocol



Any



TCP



UDP



ICMPv4

Action



Allow



Deny

Priority * ⓘ

310

Name *

AllowAnyHTTPInbound

Description

Add

Cancel

 Give feedback

```
Administrator: Windows Powerl  vm@vm: ~
Get:18 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [19.9 kB]
Get:20 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [759 kB]
Get:21 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [152 kB]
Get:22 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:23 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [30.1 kB]
Get:24 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5884 B]
Get:25 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:26 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 B]
Get:27 http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:28 http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:29 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [14.2 kB]
Get:30 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [12.1 kB]
Get:31 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [20.0 kB]
Get:32 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 B]
Get:33 http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:34 http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:35 http://azure.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:36 http://azure.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:37 http://azure.archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [670 kB]
Get:38 http://azure.archive.ubuntu.com/ubuntu noble-security/main Translation-en [128 kB]
Get:39 http://azure.archive.ubuntu.com/ubuntu noble-security/main amd64 Components [8964 B]
Get:40 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Packages [819 kB]
Get:41 http://azure.archive.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:42 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:43 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:44 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [726 kB]
Get:45 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted Translation-en [145 kB]
Get:46 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Components [208 B]
Get:47 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:48 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4892 B]
Get:49 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:50 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]
92% [6 Translation-en store 0 B]
```

```
Administrator: Windows Powerl  vm@vm: ~
Setting up libaprutilt64:amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-ldap:amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.3-1.lubuntu7) ...
Setting up apache2-utils (2.4.58-1ubuntu8.5) ...
Setting up apache2-bin (2.4.58-1ubuntu8.5) ...
Setting up apache2 (2.4.58-1ubuntu8.5) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service
Progress: [ 95%] [#####.....]
```



Ubuntu

Apache2 Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.