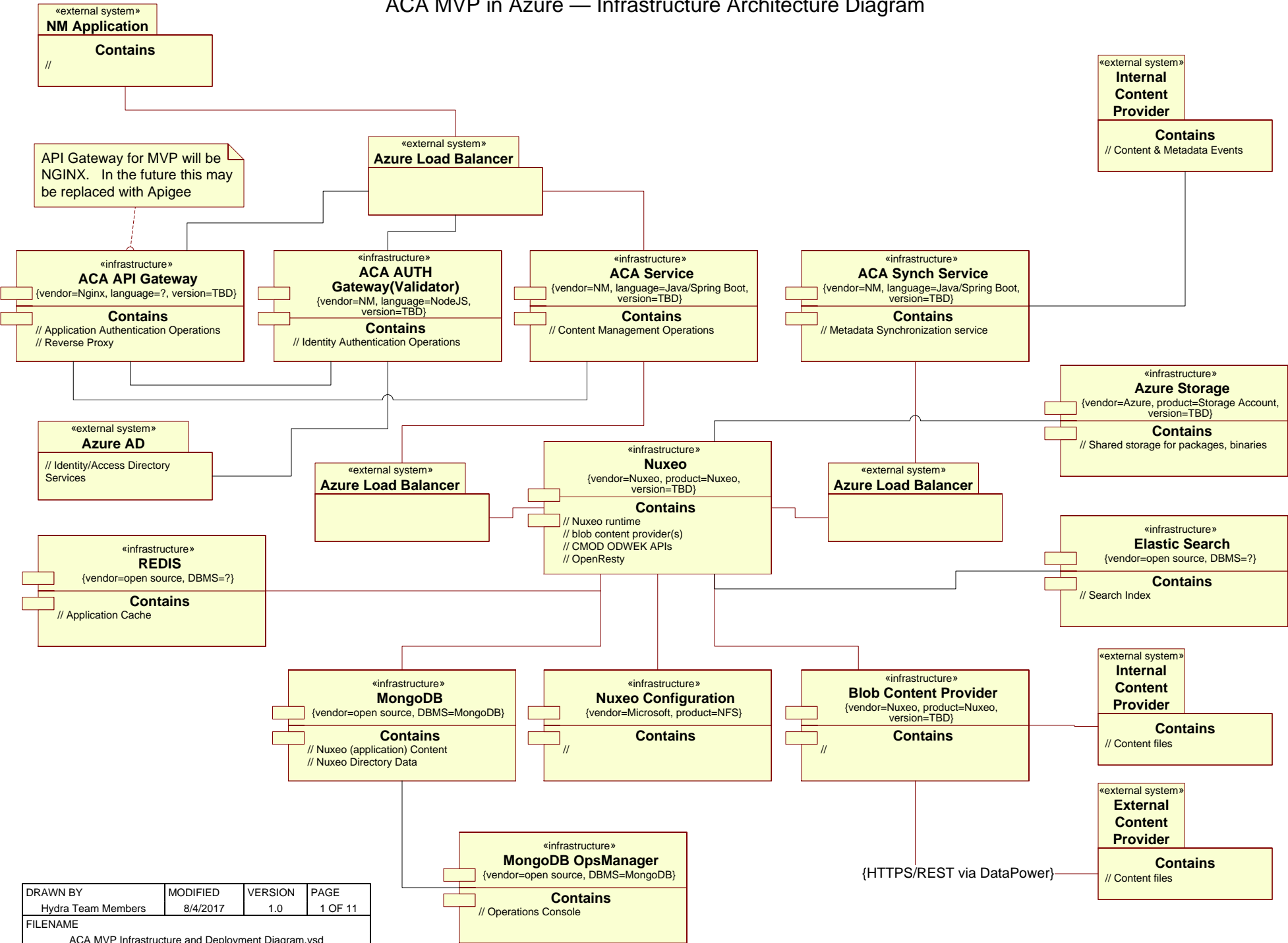
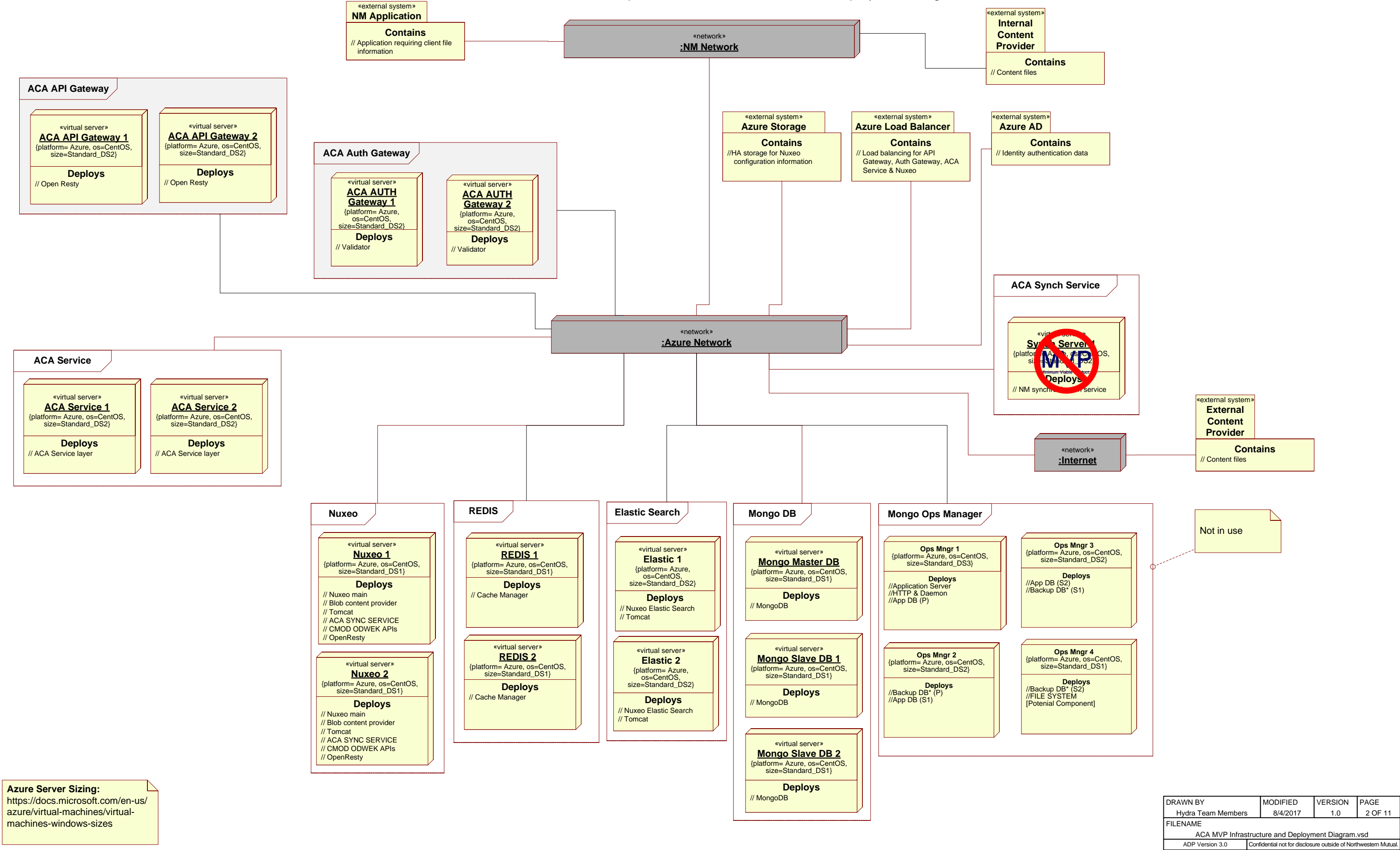


ACA MVP in Azure — Infrastructure Architecture Diagram



ACA non-prod MVP in Azure — Sandbox Deployment Diagram



ACA non-prod in Azure — Sandbox Tiering Diagram

Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTP (*-80), I, *-*
HTTPS (*-443), I, *-*
SSH (*-22), I, *-*

Web Tier - subnet - aca-sandbox-web-eastus - cidr: 10.224.8.0/27

API Gateway – avail set - aca-sandbox-web-apigateway

«virtual server»
Azure Load Balancer
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Load Balancer

«virtual server»
NGINX
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// OpenResty

«virtual server»
NGINX
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// OpenResty

Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTPS (*-443), I, 10.224.8.0 (WEB) /27-*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
SSH (*-22), I, *-*

App Tier 1- subnet - aca-sandbox-app1-eastus - cidr: 10.224.8.32/27

ACA Service - avail set - aca-sandbox-app1-authgateway

«virtual server»
Azure Load Balancer
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Load Balancer

«virtual server»
Validator
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// ACA validator

«virtual server»
Validator
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// ACA validator

Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTPS (*-443), I, 10.224.8.32 (APP1) /27-*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
SSH (*-22), I, *-*

App Tier 2 - subnet - aca-sandbox-app2-eastus - cidr: 10.224.8.64/27

ACA Service - avail set -aca-sandbox-app2-service

«virtual server»
Azure Load Balancer
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Load Balancer

«virtual server»
ACA Service
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// ACA Service layer

«virtual server»
ACA Service
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// ACA Service layer

Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source (Desc) -Target
HTTPS (*-443), I, 10.224.8.64/27 (APP2) -*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
HTTPS (*-443), I, * (Clients) -*
SSH (*-22), I, *-*

App Tier 3 - subnet - aca-sandbox-app3-eastus - cidr: 10.224.8.96/27

Nuxeo - avail set - aca-sandbox-app3-nuxeo

«virtual server»
Azure Load Balancer
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Load Balancer

«virtual server»
Nuxeo
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Nuxeo main
// Blob content provider
// Tomcat
// OpenResty

«virtual server»
Nuxeo
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Nuxeo main
// Blob content provider
// Tomcat
// OpenResty

REDIS - avail set - aca-sandbox-app3-redis

«virtual server»
REDIS
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// REDIS Application Caching

«virtual server»
REDIS
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// REDI Application Caching

Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTPS (*-443), I, 10.224.8.96/27 (APP3) -*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
HTTPS (*-443), I, * (Clients) -*
HTTP (*-8080), I, * (Clients) -*
SSH (*-22), I, *-*
HTTPS (*-9200 (ES)), I, 10.224.8.96/27 (APP3) -*
HTTPS (*-9300 (ES)), I, 10.224.8.96/27 (APP3) -*
HTTPS (*-27017 change to 27030-27040) (MongoDB), I, 10.224.8.96/27 (APP3)-*

Data Tier - subnet - aca-sandbox-data-eastus - cidr: 10.224.8.128/27

Nuxeo Content Storage - avail set - aca-sandbox-data-mongo

«virtual server»
Nuxeo Master DB
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Client search data

«virtual server»
Nuxeo Slave DB
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Client search data

«virtual server»
Nuxeo Slave DB
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Client search data

Nuxeo Elastic Search - avail set - aca-sandbox-data-nuxeo

«virtual server»
Nuxeo
{platform= Azure, os=CentOS, size=Standard_DS1}

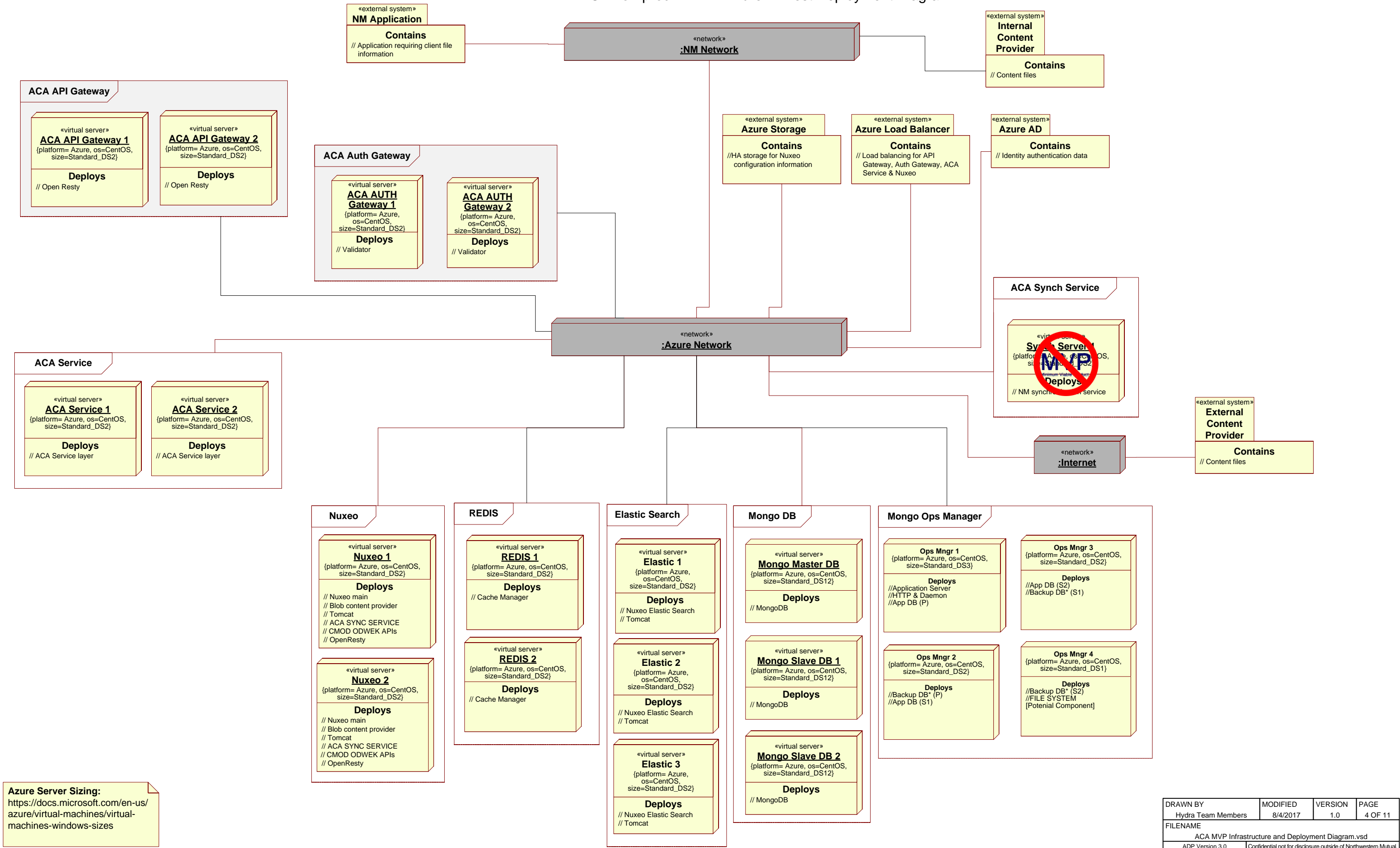
Deploys
// Nuxeo Elastic Search
// Tomcat

«virtual server»
Nuxeo
{platform= Azure, os=CentOS, size=Standard_DS1}

Deploys
// Nuxeo Elastic Search
// Tomcat

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Hydra Team Members	8/4/2017	1.0	3 OF 11
FILENAME			
ACA MVP Infrastructure and Deployment Diagram.vsd			
ADP Version 3.0	Confidential not for disclosure outside of Northwestern Mutual.		

ACA non-prod MVP in Azure — Test Deployment Diagram



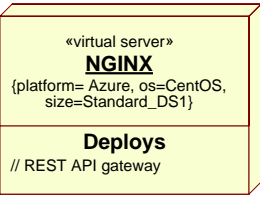
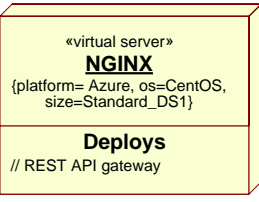
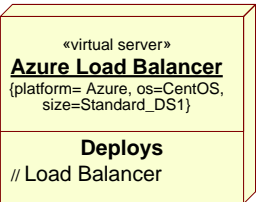
DRAWN BY	MODIFIED	VERSION	PAGE
Hydra Team Members	8/4/2017	1.0	5 OF 11
FILENAME			
ACA MVP Infrastructure and Deployment Diagram.vsd			
ADP Version 3.0	Confidential not for disclosure outside of Northwestern Mutual.		

ACA non-prod MVP in Azure — Test Tiering Diagram

Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTP (*-80), I, *-*
HTTPS (*-443), I, *-*
SSH (*-22), I, *-*

Web Tier - subnet - aca-test-web-eastus - cidr: 10.224.7.0/27

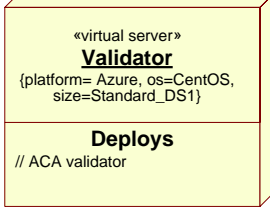
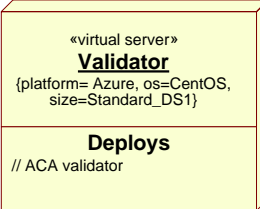
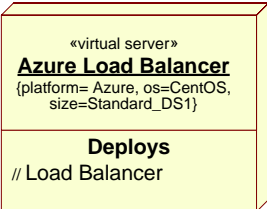
API Gateway – avail set - aca-test-web-apigateway



Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTPS (*-443), I, 10.224.7.0/27 (WEB) -*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
SSH (*-22), I, *-*

App Tier 1- subnet - aca-test-app1-eastus - cidr: 10.224.7.32/27

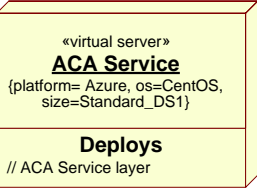
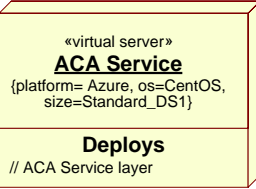
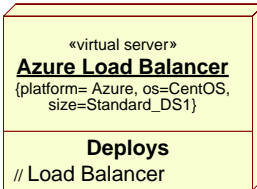
ACA Service - avail set - aca-test-app1-authgateway



Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTPS (*-443), I, 10.224.7.32/27 (APP1) -*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
SSH (*-22), I, *-*

App Tier 2 - subnet - aca-test-app2-eastus - cidr: 10.224.7.64/27

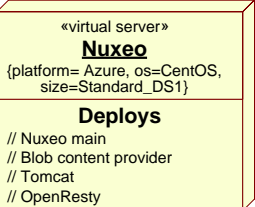
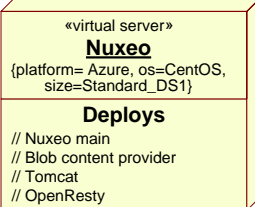
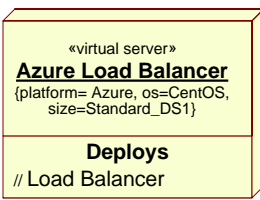
ACA Service - avail set -aca-test-app2-service



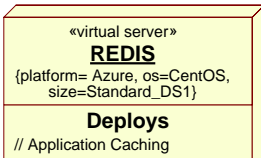
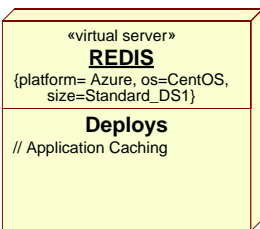
Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source (Desc) -Target
HTTPS (*-443), I, 10.224.7.64/27 (APP2) -*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
HTTPS (*-443), I, * (Clients) -*
SSH (*-22), I, *-*

App Tier 3 - subnet - aca-test-app3-eastus - cidr: 10.224.7.96/27

Nuxeo - avail set - aca-test-app3-nuxeo



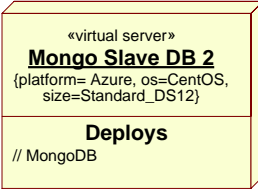
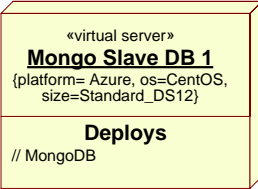
REDIS - avail set - aca-test-app3-redis



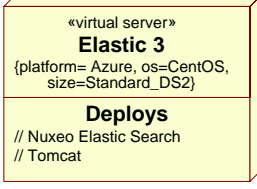
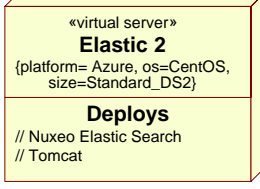
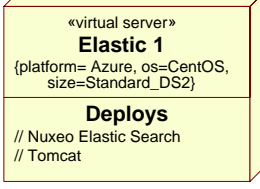
Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target
HTTPS (*-443), I, 10.224.7.96/27 (APP3) -*
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*
HTTPS (*-443), I, * (Clients) -*
HTTP (*-8080), I, * (Clients) -*
SSH (*-22), I, *-*
HTTPS (*-9200 (ES)), I, 10.224.8.96/27 (APP3) -*
HTTPS (*-9300 (ES)), I, 10.224.8.96/27 (APP3) -*
HTTPS (*-27017 change to 27030-27040) (MongoDB), I, 10.224.8.96/27 (APP3)-*

Data Tier - subnet - aca-test-data-eastus - cidr: 10.224.7.128/27

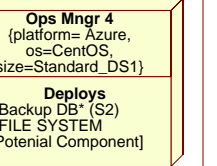
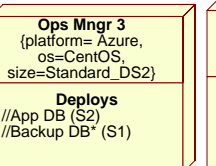
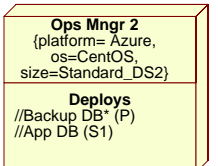
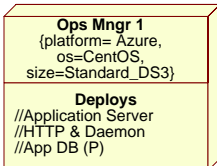
Nuxeo Content Storage - avail set - aca-test-data-mongo



Nuxeo Elastic Search - avail set - aca-test-data-nuxeo

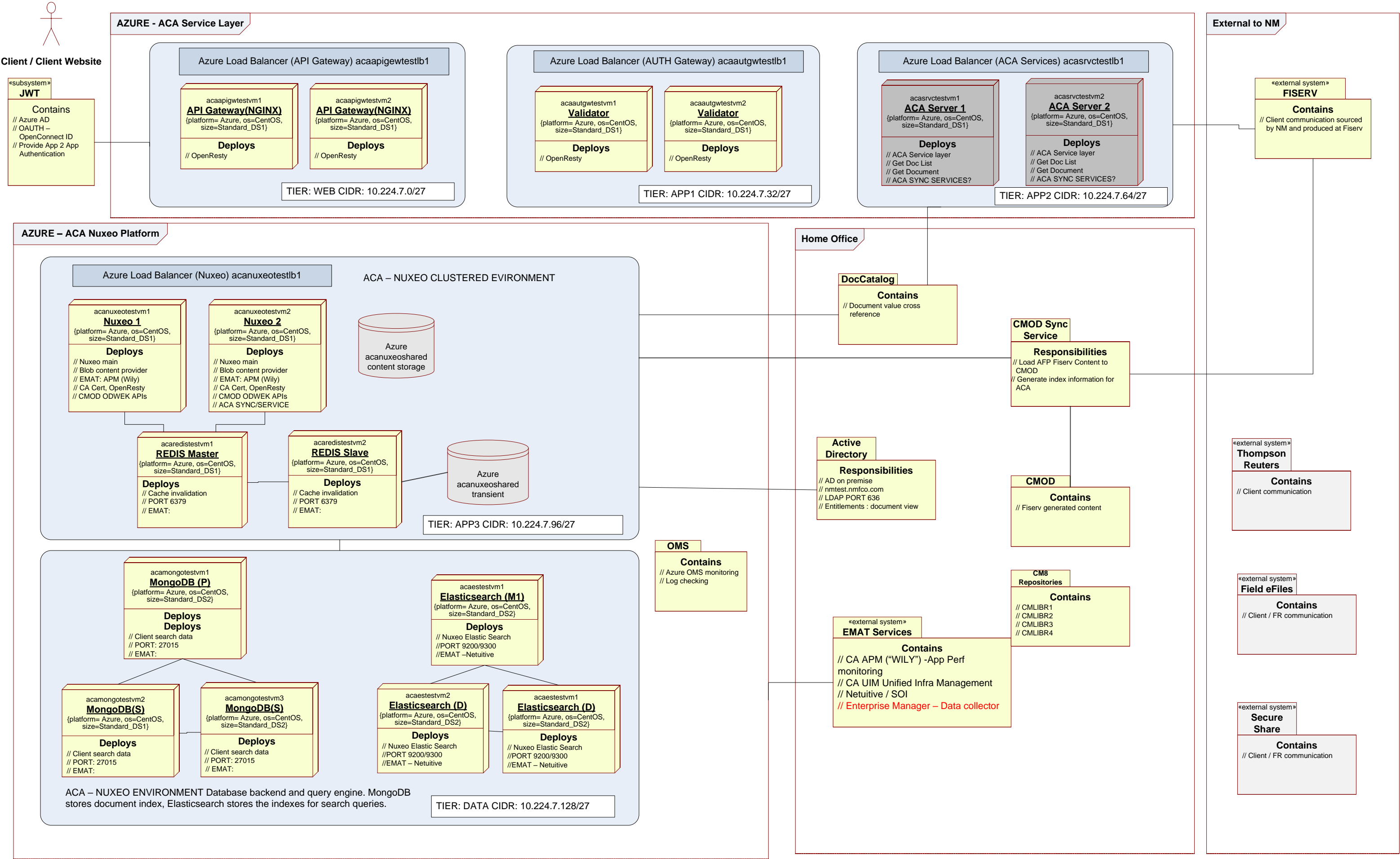


Mongo Ops Manager - avail set - aca-test-data-mongo-om

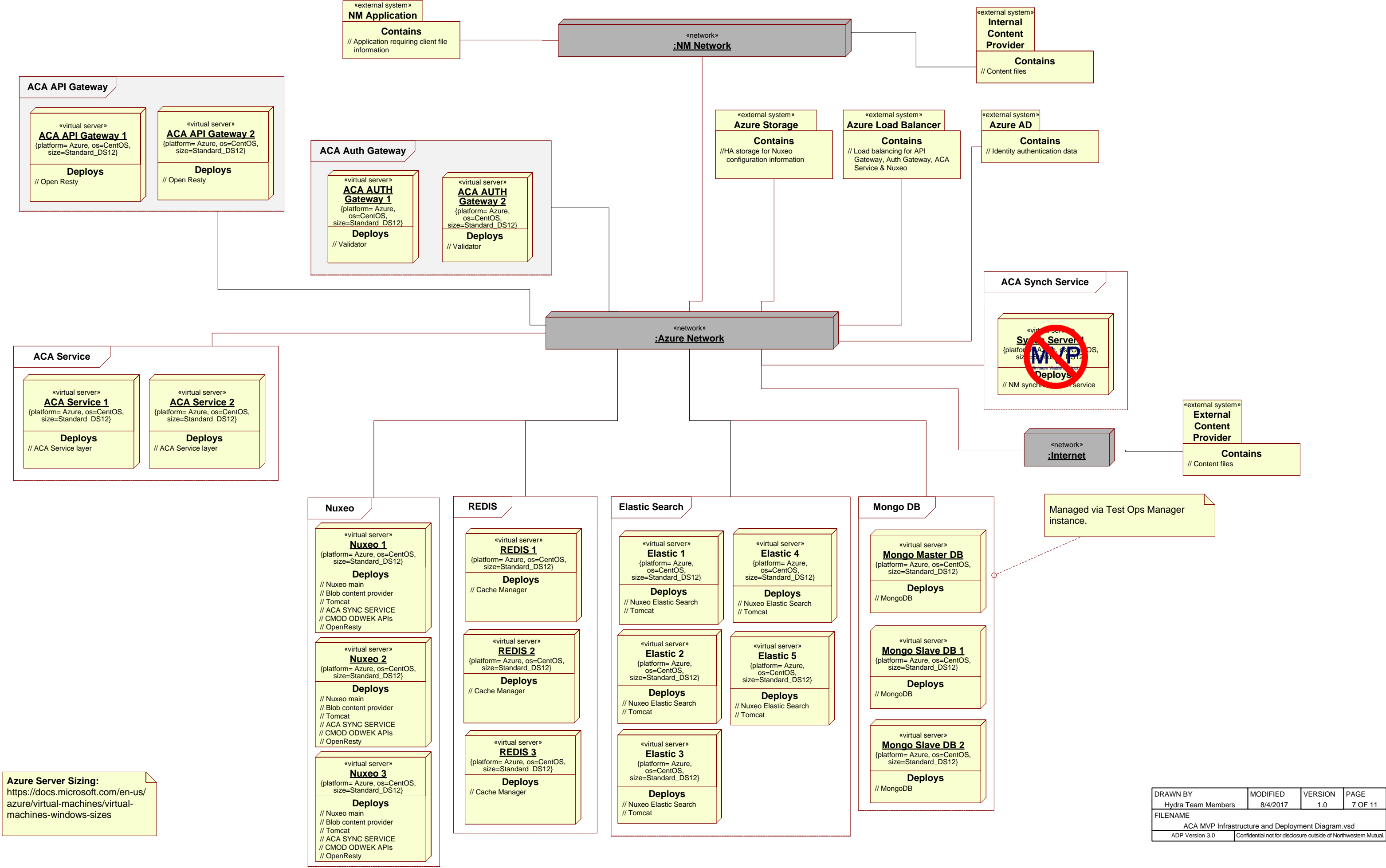


TEST ACA OVERVIEW

DNS: <SERVERNAME>.azurenon.nml.com



ACA non-prod MVP in Azure — Stage Deployment Diagram



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Hydra Team Members	8/4/2017	1.0	8 OF 11
FILENAME			
ACA MVP Infrastructure and Deployment Diagram.vsd			
ADP Version 3.0	Confidential not for disclosure outside of Northwestern Mutual.		

ACA non-prod MVP in Azure — Stage Tiering Diagram

Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target

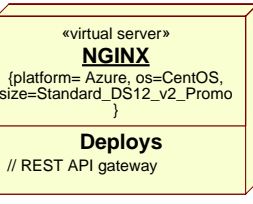
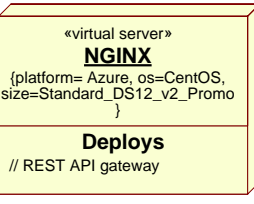
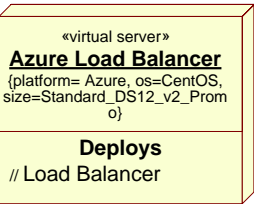
HTTP (*-80), I, *-*

HTTPS (*-443), I, *-*

SSH (*-22), I, *-*

Web Tier - subnet - aca-stage-web-eastus - cidr: 10.225.16.0/27

API Gateway – avail set - aca-stage-web-apigateway



Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target

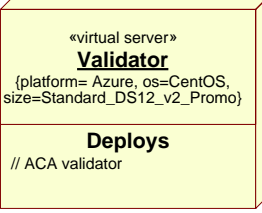
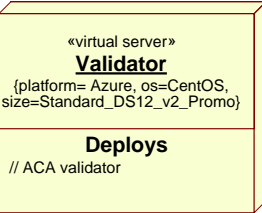
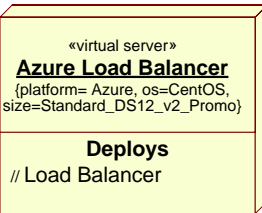
HTTPS (*-443), I, 10.225.16.0/27 (WEB) -*

HTTPS (*-443), I, 179.79.220.82 (EMAT) -*

SSH (*-22), I, *-*

App Tier 1- subnet - aca-stage-app1-eastus - cidr: 10.225.16.32/27

ACA Service - avail set - aca-stage-app1-authgateway



Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target

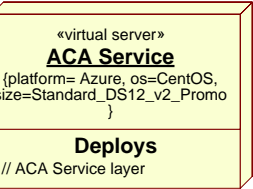
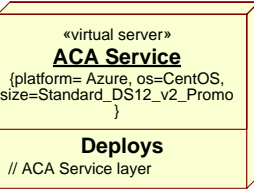
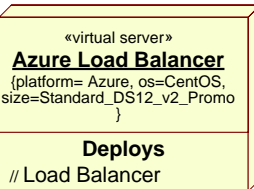
HTTPS (*-443), I, 10.225.16.32/27 (APP1) -*

HTTPS (*-443), I, 179.79.220.82 (EMAT) -*

SSH (*-22), I, *-*

App Tier 2 - subnet - aca-stage-app2-eastus - cidr: 10.225.16.64/27

ACA Service - avail set -aca-stage-app2-service



Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source (Desc) -Target

HTTPS (*-443), I, 10.225.16.64/27 (APP2) -*

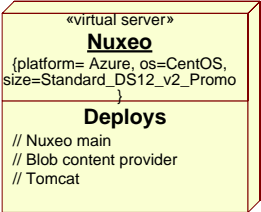
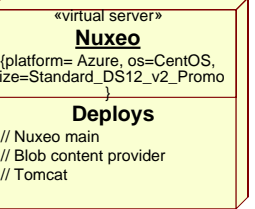
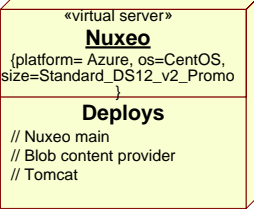
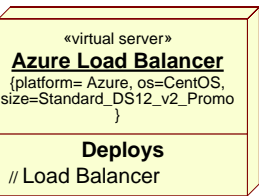
HTTPS (*-443), I, 179.79.220.82 (EMAT) -*

HTTPS (*-443), I, * (Clients) -**

SSH (*-22), I, *-*

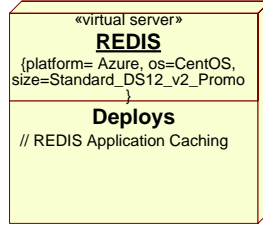
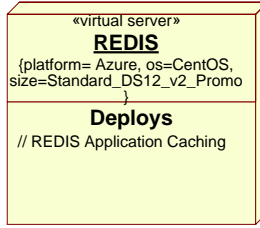
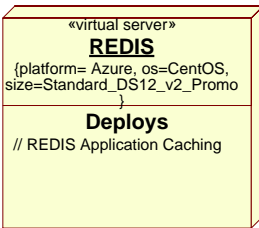
App Tier 3 - subnet - aca-stage-app3-eastus - cidr: 10.225.16.96/27

Nuxeo - avail set - aca-stage-app3-nuxeo



App Tier 3 - subnet - aca-stage-app3-eastus - cidr: 10.225.16.96/27

REDIS - avail set - aca-stage-app3-redis



Traffic Rules: TYPE (Source-Target PORT), I=Inbound, O=Outbound, IP Source-Target

HTTPS (*-443), I, 10.225.16.96/27 (APP3) -*

HTTPS (*-443), I, 179.79.220.82 (EMAT) -*

HTTPS (*-443), I, * (Clients) -*

HTTP (*-8080), I, * (Clients) -*

SSH (*-22), I, *-*

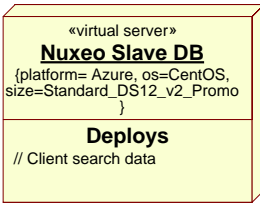
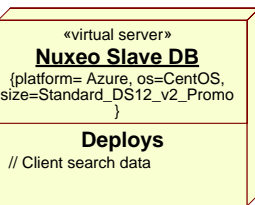
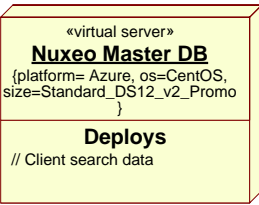
HTTPS (*-9200 (ES)), I, 10.224.8.96/27 (APP3) -*

HTTPS (*-9300 (ES)), I, 10.224.8.96/27 (APP3) -*

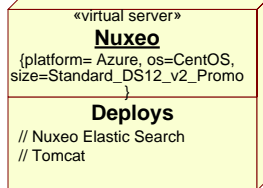
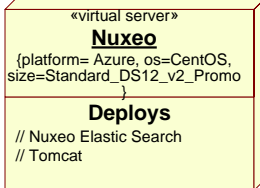
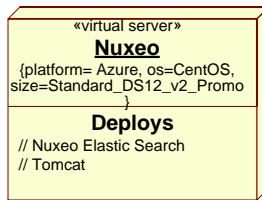
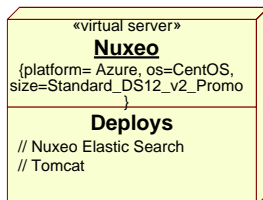
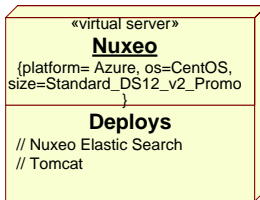
HTTPS (*-27017 change to 27030-27040) (MongoDB), I, 10.224.8.96/27 (APP3)-*

Data Tier - subnet - aca-stage-data-eastus - cidr: 10.225.16.128/27

Nuxeo Content Storage - avail set - aca-stage-data-mongo



Nuxeo Elastic Search - avail set - aca-stage-data-nuxeo



STAGE ACA OVERVIEW

DNS: <SERVERNAME>.azurenon.nml.com

