



NGINX Management Suite

App Delivery Manager TechXchange 2023

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Objectives and agenda

Objectives

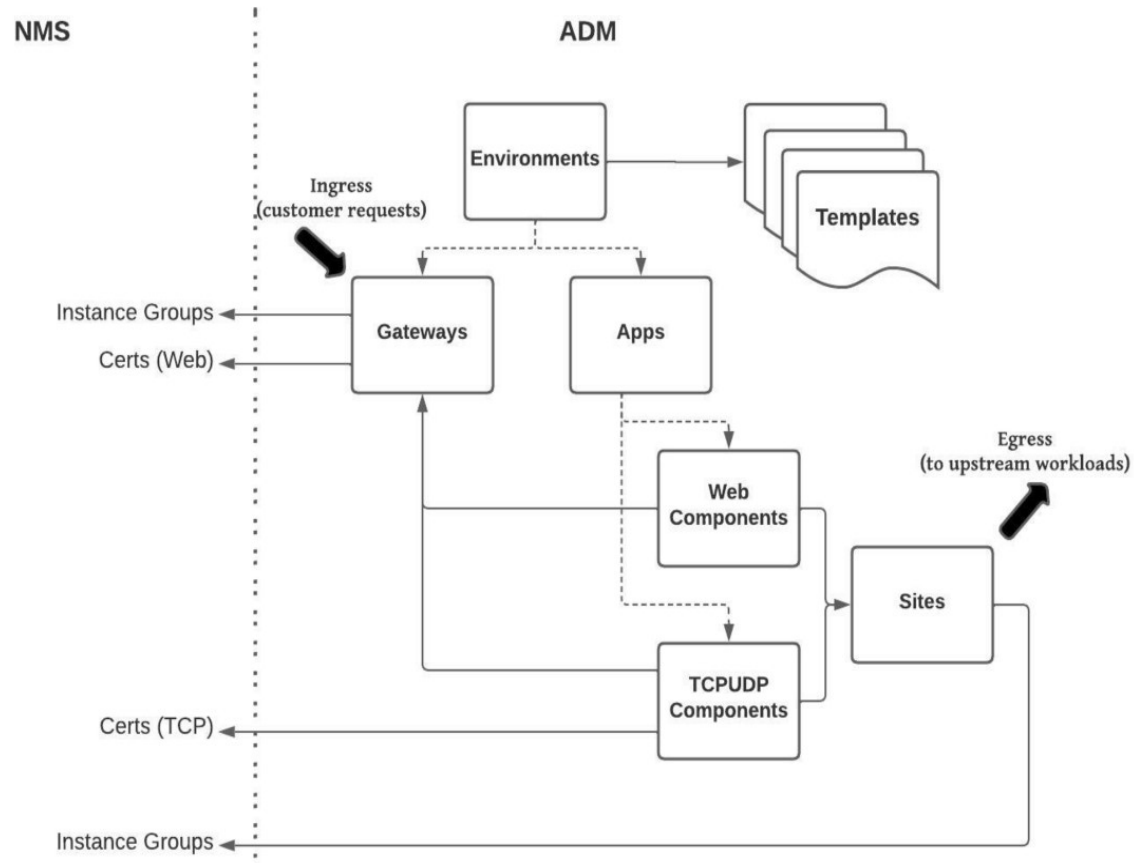
1. Become familiar with ADM hands-on for basic applications
2. Understand how to build your own more complicated scenarios in ADM including Templates

Agenda

1. Introduction to the Lab Environment
2. The basic Lab (45 minutes)
3. Introduction to Templates
4. The templates Lab (15 minutes)

ADM Concepts

API Object	Affected NGINX Contexts	Description
Environments	-	Logical separation of objects by organizations or deployment types.
Gateways	Server blocks	Definition of network entry point (ingress for NGINX+) for the app(s).
Apps	-	Logical grouping of components that define an individual app.
Web components	HTTP Location blocks	Definition of a microservice or part of a microservice that implements a HTTP or HTTPS app.
Workload Groups	Upstreams	Upstreams that are used in proxy_pass from the Web Components location blocks
TCP/UDP components	server (stream), upstream (stream)	Definition of a microservice or part of a microservice that implements a TCP, TC+TLS, or UDP app.
Sites	-	Logical separation of instance groups, typically based on locality.



Templates

Templates are a way to extend ADM. They are created on the box

/etc/nms/modules/adm/

templates/

/base

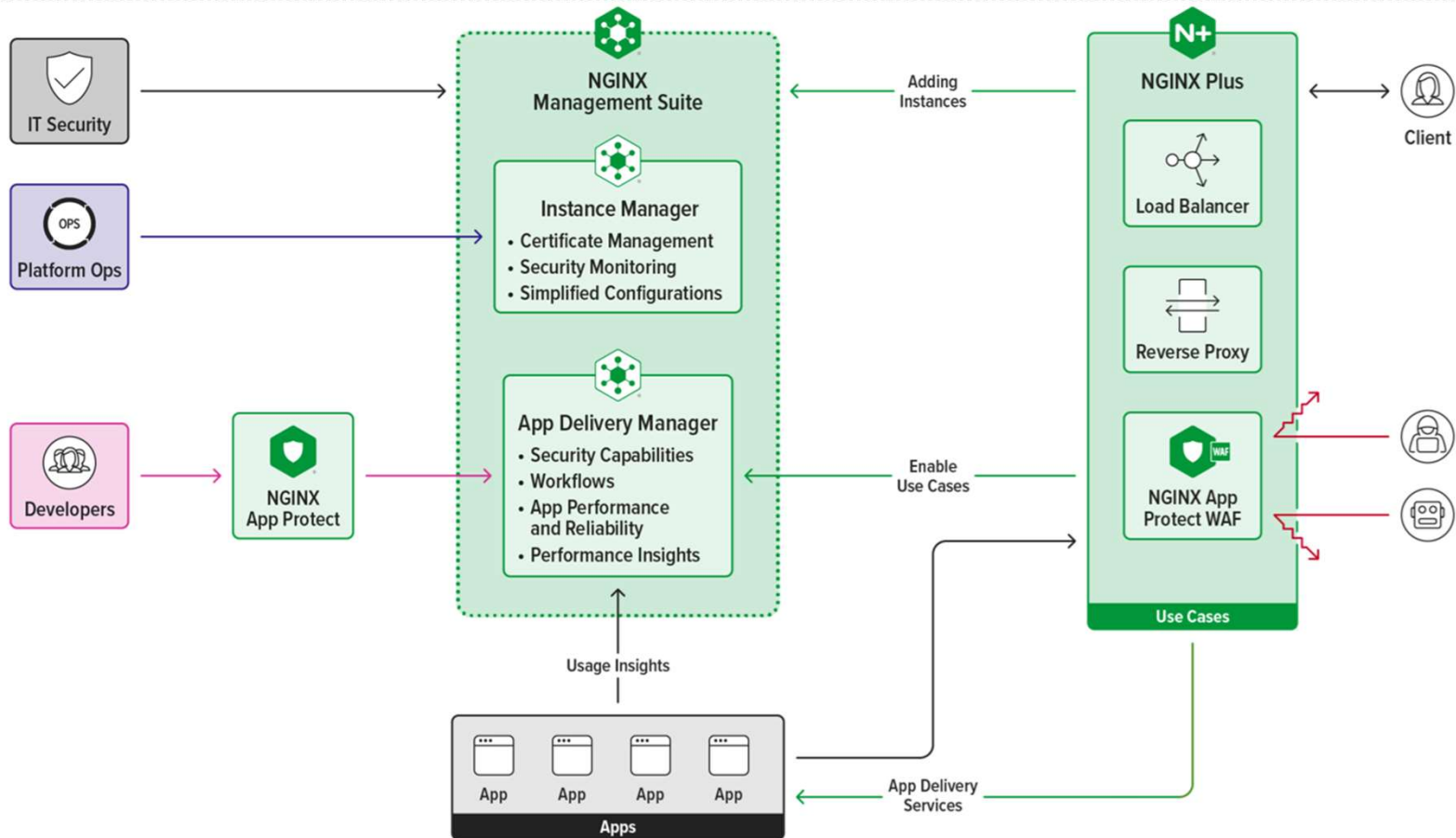
/use-cases

Great power, Great Responsibility. Best left to professional services, or very advanced customers. Full control over any NGINX Directive.

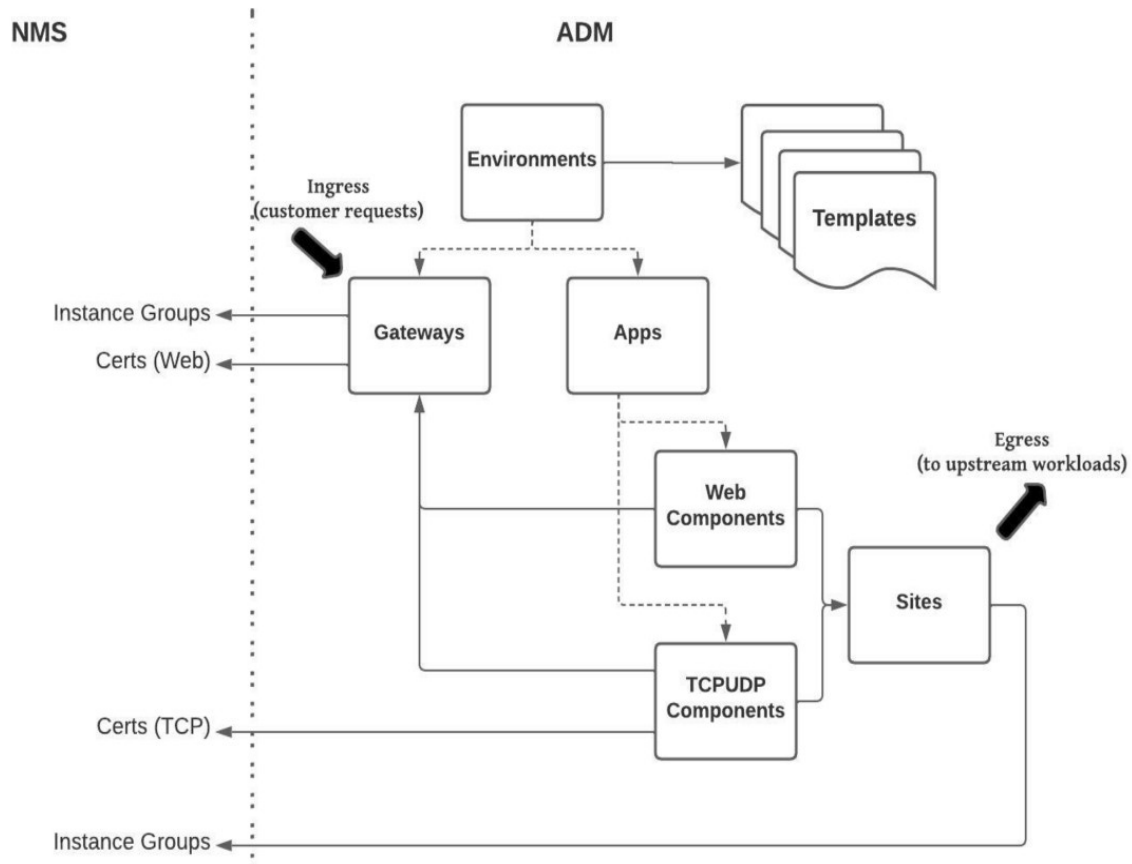
Fair game for SE's/SA's/Customers to create / modify / share 😊 cannot over-write directives defined in the base templates.

Use Case Template Schema	Purpose
gateway.json	.JSON makes the GUI (fields and labels) for the user
server-gateway.tpml	.TMPL is the GO Template that takes the user input, and renders the text that will go into nginx.conf

ADM High-Level Architecture

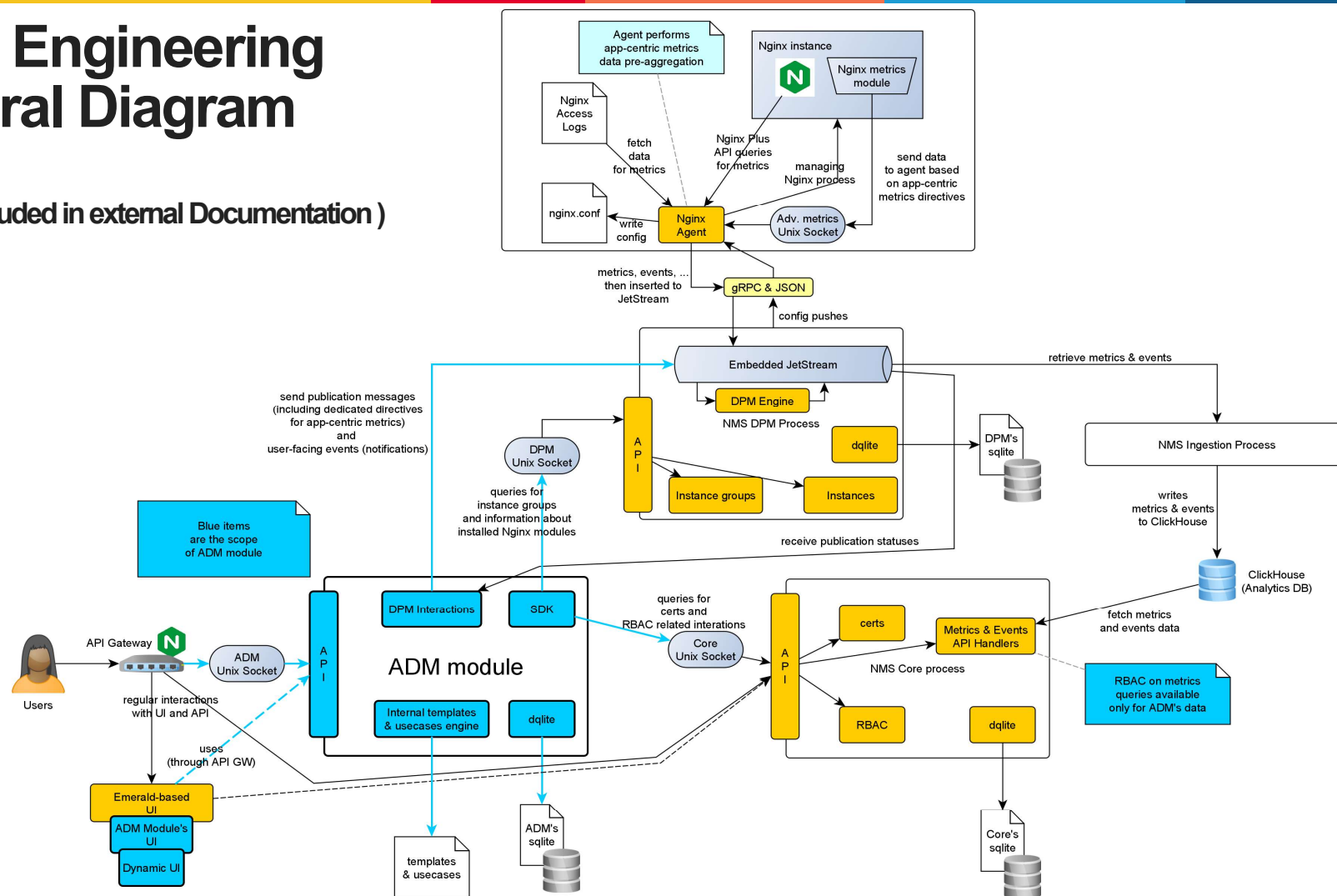


ADM Medium-Level Architecture



Low-Level Engineering Architectural Diagram

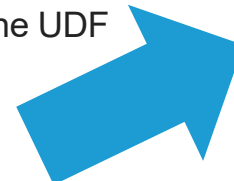
(Internal Only, not included in external Documentation)



Introduction to the Lab Environment

Subhead placeholder

- Deploy in your region closest to you (EMEA, APAC, AMER) the UDF Blueprint named:



Deploy From Blueprint

Group
Cost Center 5699

Name
NMS ADM Lab - UDF Region - Firefox in Firefox

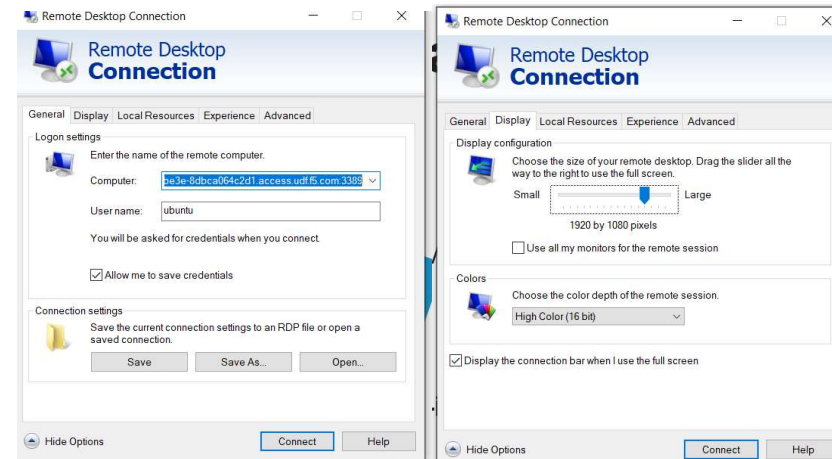
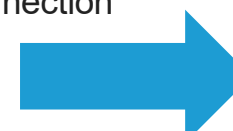
Blueprint Revision
1) Tue May 02 2023 09:26:06 GMT-0700

Available Regions
Oregon, USA
Oregon, USA
São Paulo, Brazil
Tokyo, Japan
Sinnamanga

CANCEL DEPLOY

NMS ADM Lab – TechXchange 2023

- View the Lab Guide in the “Documentation” Tab of the UDF Deployment
- RDP to the Ubuntu Jumpbox and do all your work from the Ubuntu Jumpbox. Set username to **ubuntu** and check “allow me to save credentials” and choose a screen resolution slightly smaller than your monitor, and choose a 16-bit color depth. Then save connection settings.



Lab Diagram

(also available in the lab guide docs)

