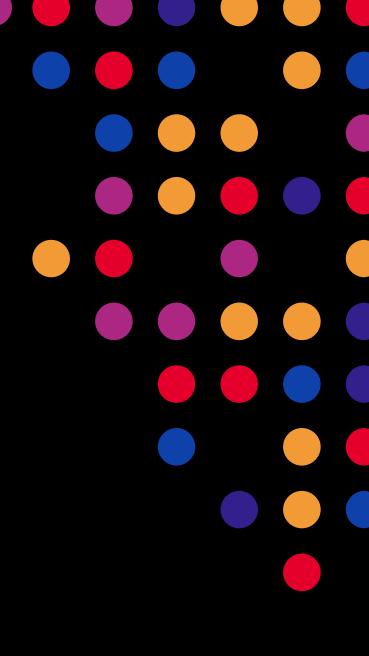


# Federal Symposium 2024: An Introduction to F5 NGINX+

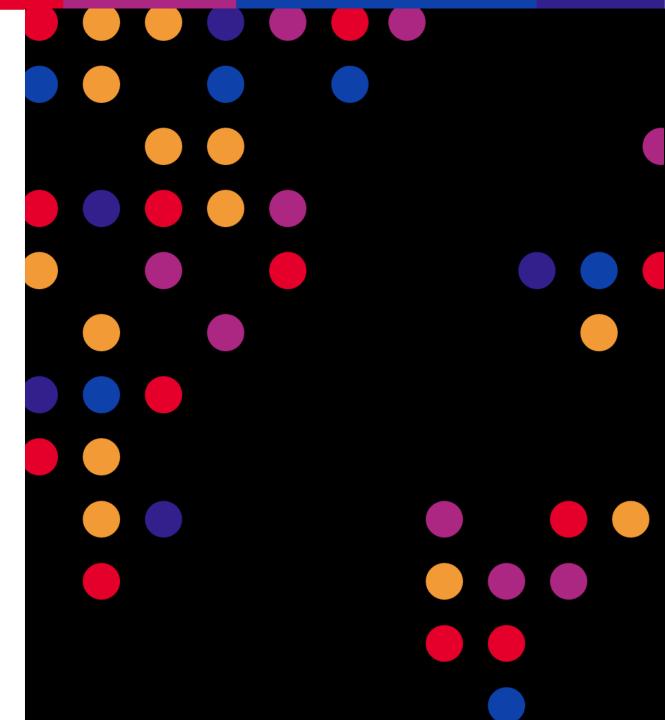


# Agenda

Lab Housekeeping

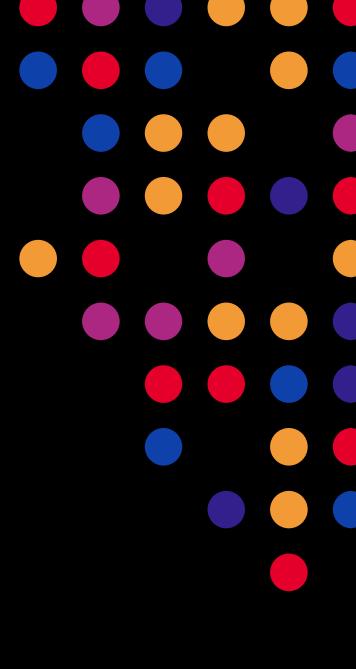
Introduction to NGINX+

**Self-paced Lab** 





# Lab Components and Tour



### Lab Attendee Invite

**UDF Course Registration: F5 XC 102 Lab Test** 

courses@notify.udf.f5.com

To i@chas.one

Reply Reply all Forward Delete Add to Safe Senders Add to Blocked Senders ≡

You have been invited to UDF course session F5 XC 102 Lab Test by Chas Lesley.

Your session starts at May 24th 2022, 2:00:00 am PDT and will run until May 27th 2022, 2:00:00 am PDT. The session location is Seattle, WA.

Your instructor for this session is Chas Lesley (c.lesley@f5.com).

The email address you can use to login is I@chas.one

You can visit this course here:

https://udf.f5.com/meet/c28722ad-1169-4a63-9acc-68023889a2ac/20216d49-2d24-4a0f-8156-b9fd5bc791ce,

nowever, you will not be able to join until the scheduled start time.

You can visit all of your courses here: https://udf.f5.com/courses.

You can log into the UDF here:

https://auth.udf.f5.com/login?response\_type=code&client\_id=6d4taklbmqvjd7imltc2id7gho&redirect\_uri=https: //udf.f5.com/login

For more information on how to join a training course and the UDF system, please click this link: https://help.udf.f5.com/en/articles/3832165-how-to-join-a-training-course

Learn how to reset your password here:

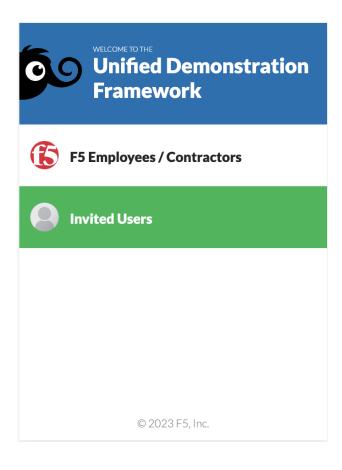
http://help.udf.f5.com/en/articles/5014567-how-do-i-reset-my-password

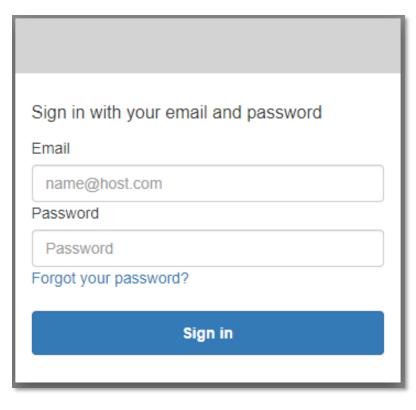
- F5 Networks - Unified Demonstration Framework

- Lab Attendees will receive invite email
- Lab Attendees can click the provided link



# Lab Attendee Login





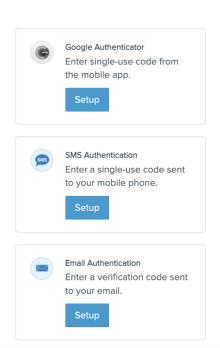
- Lab Attendees will select *Invited Users*
- Lab Attendees can enter username and password if returning user or username and "Forgot your password"



### Lab Attendee MFA

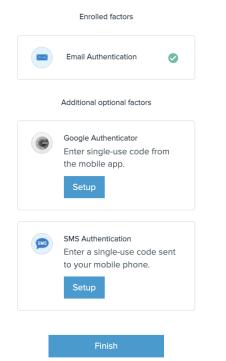
#### **SET UP 2-STEP AUTHENTICATION**

F5 requires you to set up 2-step authentication to add an additional layer of security when signing in to your account

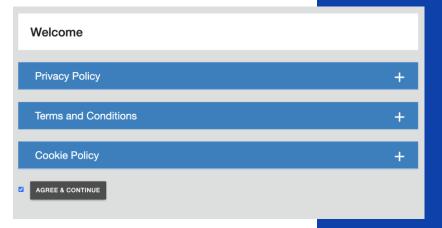


#### **SET UP 2-STEP AUTHENTICATION**

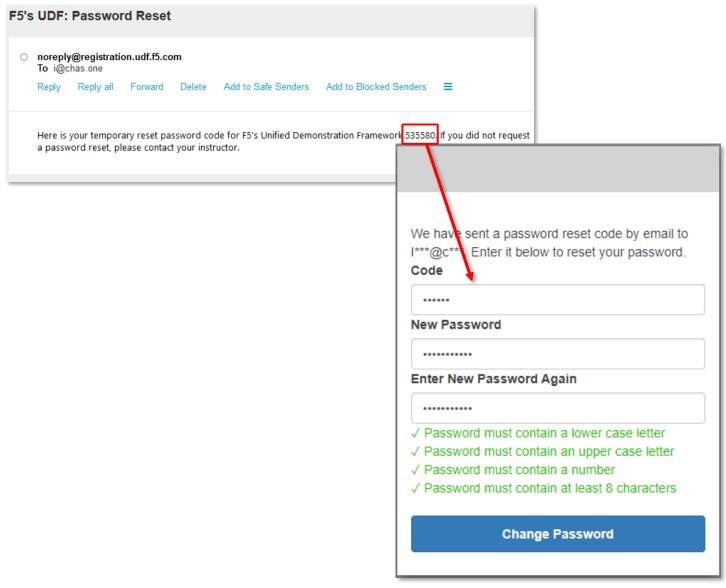
You can configure any additional optional factor or click finish



- MFA setup for invited guests
- Users will be given MFA options for Google Authenticator, SMS and Email authentications
- Agree to UDF use policy



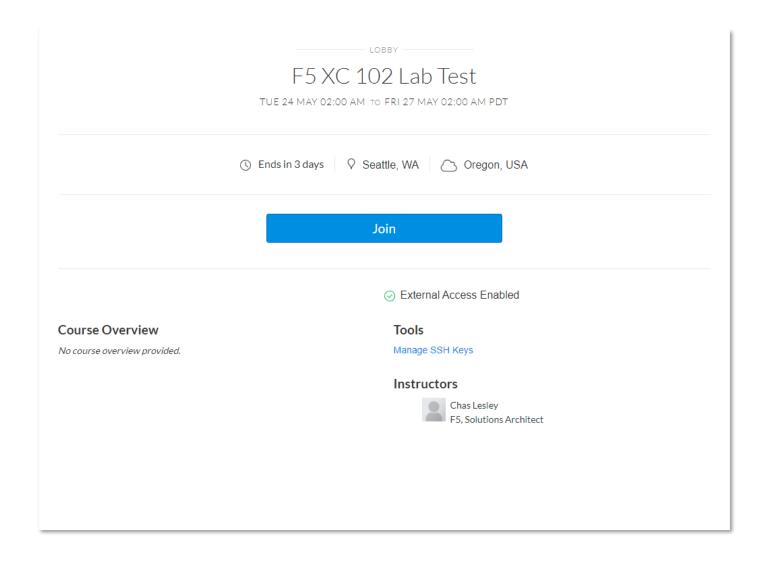
### Lab Attendee Password Reset



 Screens show the forgot password experience



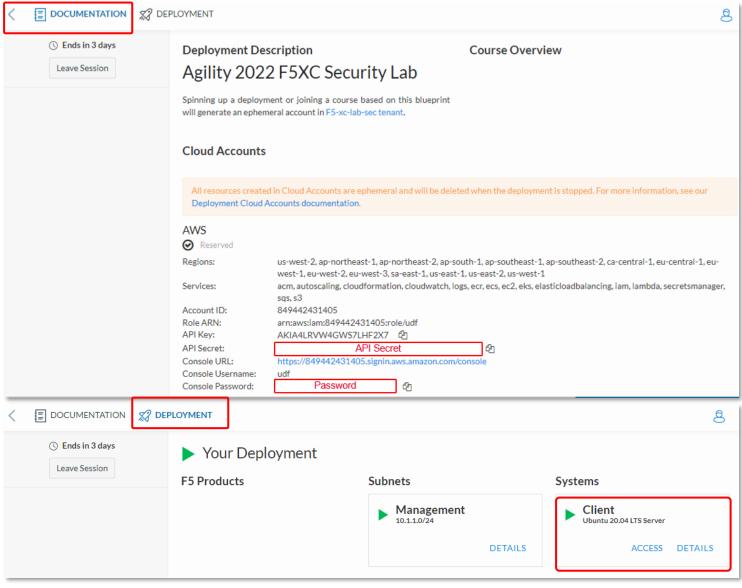
### Lab Attendee Join Class



• Upon, successful access, click Join

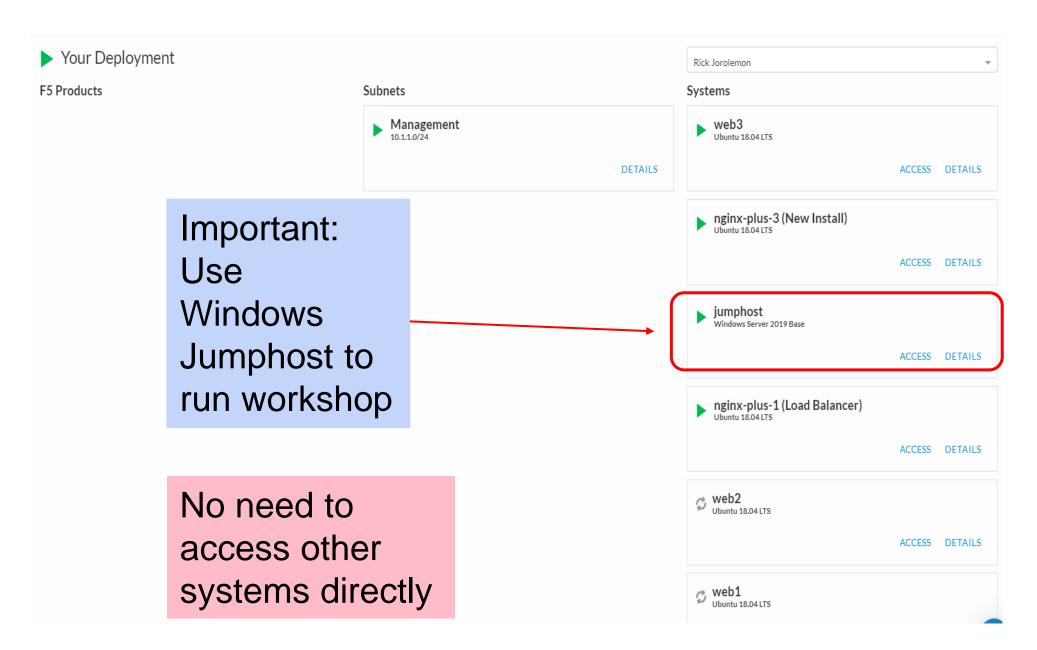


### **Lab Attendee Environment**



- The screen shows the Lab environment and resources
- Note experiences may differ







# Getting started

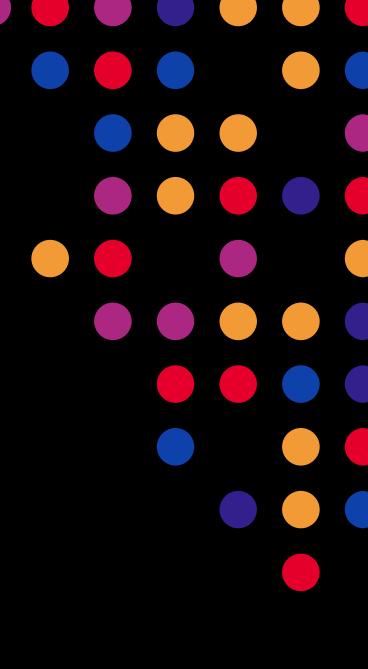


- Chrome based web browser highly recommended
- RDP client required. If you do not have one, please download one, Some examples are:
  - Remote desktop connection (macOS) <a href="https://apps.apple.com/us/app/microsoft-remote-desktop/">https://apps.apple.com/us/app/microsoft-remote-desktop/</a>
  - Chrome browser RDP <a href="https://remotedesktop.google.com/">https://remotedesktop.google.com/</a>
- Bypass VPNs (known to cause issues)





# Introduction to NGINX Plus





## **NGINX Open Source**

Fast, Flexible, Portable



## **NGINX Plus**

Enterprise-Class Data Plane









# Enabling modern app delivery at scale



The open source web server that powers more than 400 million websites



The only all-in-one load balancer, web server, content cache, and API gateway



Centralized monitoring and management for NGINX Plus



#### **NGINX App Protect**

Modern app security powered by F5 WAF technology running on NGINX Plus



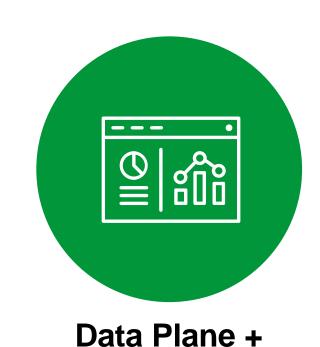
#### **NGINX Unit**

Multi-language application server from NGINX





# NGINX One®



Management





Whole product offer



# **NGINX Open Source Capabilities**

TLS Offload **Web Server** Extendable via JavaScript **Rate Limiting** Passive Health Checks **Reverse Proxy Load Balance** Caching Logging (L7 & TCP/UDP)



### Secure

#### **JWT Authentication**

OpenID Connect and OAuth token validation

#### **FIPS-Compliance**

Verifiable FIPS mode for audit-friendly TLS

#### WAF

Stop SQL injection and almost any L7 attack

# Strengthen

#### **Active Health Checks**

Detect and work around a much wider variety of problems

#### **Supported High Availability**

Avoid single points of failure on-prem and in clouds

#### **Real-Time Monitoring**

Create live dashboards and connect to NGINX/3rd-party tools

## Scale

#### **DNS-Based Service Discovery**

Automate discovery and load balancing of new servers

#### **Key-Value Store**

Dynamically control traffic flow through RESTful API

#### Clustering

Share runtime state across multiple instances



### Secure

#### **JWT Authentication**

OpenID Connect and OAuth token validation

#### **FIPS-Compliance**

Verifiable FIPS mode for audit-friendly TLS

#### WAF

Stop SQL injection and almost any L7 attack

# Strengthen

#### **Active Health Checks**

Detect and work around a much wider variety of problems

#### **Supported High Availability**

Avoid single points of failure on-prem and in clouds

#### **Real-Time Monitoring**

Create live dashboards and connect to NGINX/3rd-party tools

### Scale

#### **DNS-Based Service Discovery**

Automate discovery and load balancing of new servers

#### **Key-Value Store**

Dynamically control traffic flow through RESTful API

#### Clustering

Share runtime state across multiple instances



### Secure

#### **JWT Authentication**

OpenID Connect and OAuth token validation

#### **FIPS-Compliance**

Verifiable FIPS mode for audit-friendly TLS

#### WAF

Stop SQL injection and almost any L7 attack

# Strengthen

#### **Active Health Checks**

Detect and work around a much wider variety of problems

#### Supported High Availability

Avoid single points of failure on-prem and in clouds

#### **Real-Time Monitoring**

Create live dashboards and connect to NGINX/3rd-party tools

### Scale

#### **DNS-Based Service Discovery**

Automate discovery and load balancing of new servers

#### **Key-Value Store**

Dynamically control traffic flow through RESTful API

#### Clustering

Share runtime state across multiple instances



### Secure

#### **JWT Authentication**

OpenID Connect and OAuth token validation

#### **FIPS-Compliance**

Verifiable FIPS mode for audit-friendly TLS

#### WAF

Stop SQL injection and almost any L7 attack

# Strengthen

#### **Active Health Checks**

Detect and work around a much wider variety of problems

#### **Supported High Availability**

Avoid single points of failure on-prem and in clouds

#### **Real-Time Monitoring**

Create live dashboards and connect to NGINX/3rd-party tools

## Scale

#### **DNS-Based Service Discovery**

Automate discovery and load balancing of new servers

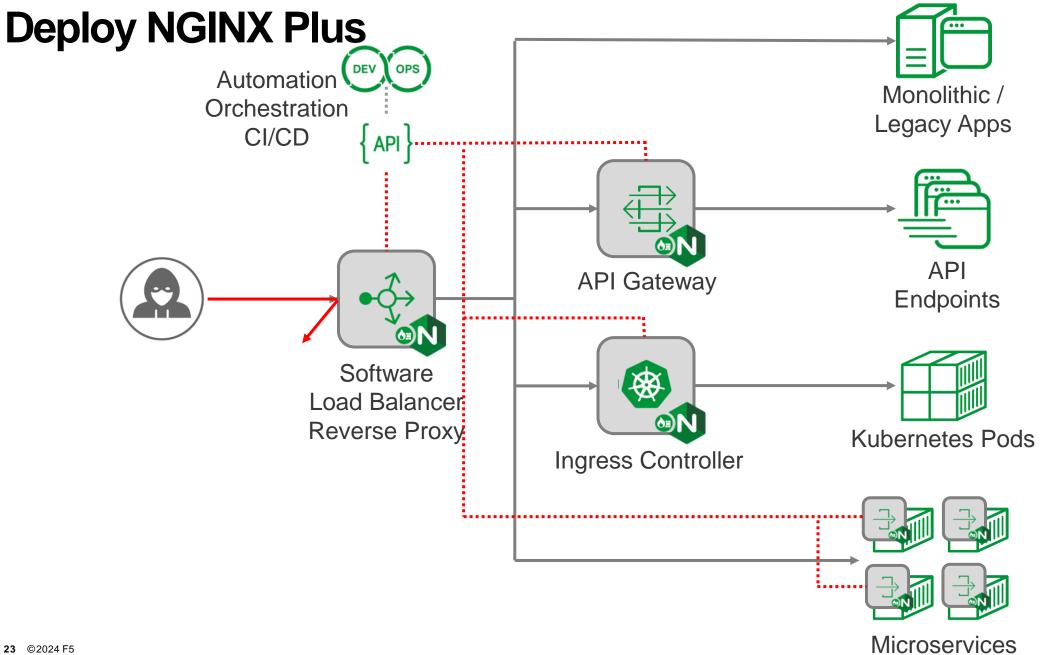
#### **Key-Value Store**

Dynamically control traffic flow through RESTful API

#### Clustering

Share runtime state across multiple instances







# Hands On Lab

