

vLABの登録/利用ガイド

2020/8

JUNIPER
NETWORKS

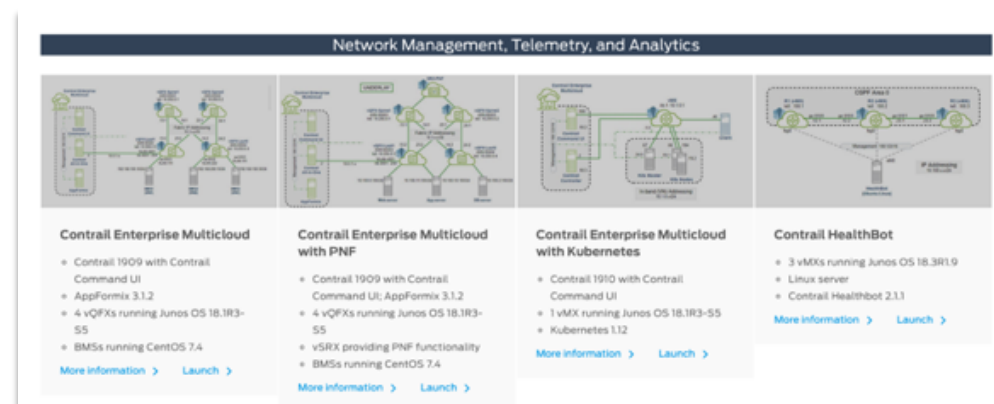
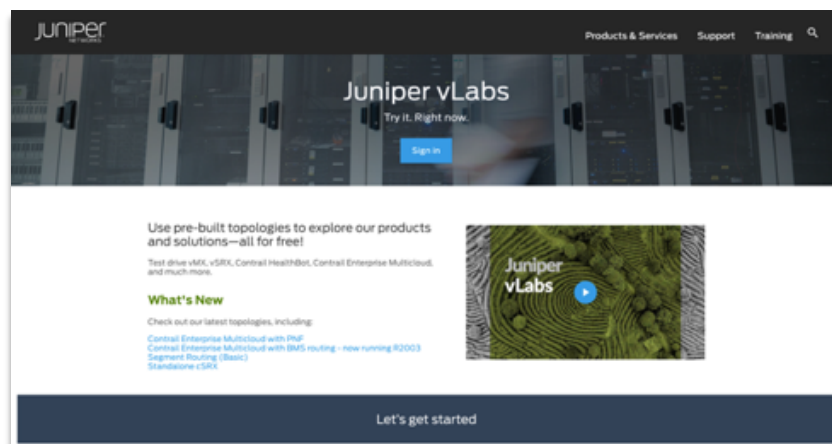
Engineering
Simplicity

VLAB

vLabはジュニパーの提供するユースケースや機能をテストできるWebベースのプラットフォームです。^{*}

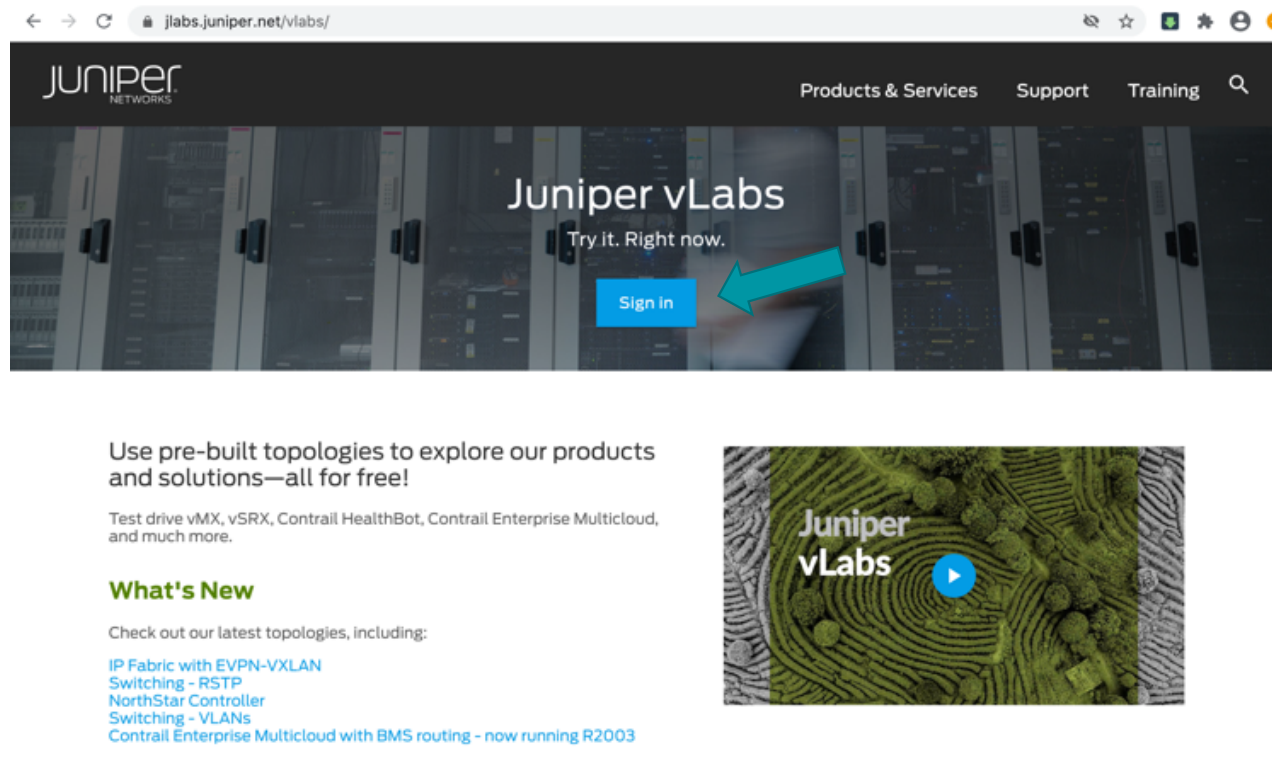
ジュニパーの複数の製品ラインを利用できるvLabsは、ルーティング、スイッチング、セキュリティ、自動化、テレメトリ、など様々な環境を仮想環境としてご使用いただけます。

vLabsセッションはアカウントを登録いただいた方は無料でご利用いただけます。



^{*}仮想環境・仮想アプライアンスの為環境による機能等の制限がございます。

vLAB登録手順 (1)



<https://jlab.juniper.net/vlabs/>

vLAB登録手順 (2)



The screenshot shows a web browser window at the URL `iam-signin.juniper.net`. The page header indicates "Connecting to" and "Sign-in with your Juniper Networks Inc. account to access J Labs.juniper.net". The main content area features the Juniper Networks logo and a "Sign In" form. The form includes an "Email ID [xyz@abc.com]" input field, a "Remember me" checkbox, and a green "Next" button. Below the form, there are links for "Need help signing in?", "Forgot password?", "New User? Register Here", and "Help". A blue arrow points from a dark blue box containing the Japanese text "ユーザ登録" (User Registration) to the "New User? Register Here" link.

Connecting to 
Sign-in with your Juniper Networks Inc. account to access
J Labs.juniper.net

JUNIPER
NETWORKS

Sign In

Email ID [xyz@abc.com]

Remember me

Next

Need help signing in?
Forgot password?
[New User? Register Here](#)
Help

ユーザ登録

<https://userregistration.juniper.net/entitlement/setupAccountInfo...>

vLAB登録手順 (3)

USER REGISTRATION

Account Setup

Authorized J-Partners and Customers can access exclusive information and resources in the Juniper Networks Partner Center and Customer Support Center (CSC). Guest Users may post to J-Net Discussion Forums, browse product information, and access collaboration areas. Guest Users who pass additional compliance checks can also access EngNet, vLabs, and other JCL tools.

Juniper Networks User Registration System only accepts English characters. You will not be able to create an account using non-English characters (e.g. Asian languages and European characters).

Email Address * (This will become the ID for your account)

Re-enter Email Address *

メールアドレスの登録

Guest User Access
にチェック

Country *

Japan

Use an Authorization Code

Use a Product Serial Number or E

Use your Cloud Marketplace or Cloud Service Provider credentials

Guest User Access

Select this option if you have purchased a Pay As You Go (PAYG) hourly or yearly product from a Cloud Marketplace. This will provide you with limited access to the Customer Support Center and Web Case Manager, based on the criteria outlined by your cloud provider.

Note: If you have purchased a product license key directly from Juniper Networks (Bring Your Own License), use the Product Serial Number or Software Support Reference Number option.

You have selected a Guest User Account. Please check the box if you require access to our EngNet, vLabs & other JCL tools. Please note for Guest Users requiring access to these portals your account will be subject to compliance screening.

Access to EngNet, vLabs & other JCL tools

Access to EngNet,
vLab & other JCL tools
にチェック

Additional instructions on user registration are in [KB9946 - Create New User Account for the Juniper Support Site](#). If you require special handling of your login account, contact our [Customer Care Team](#) for assistance.

Attention! Please read [Public E-mail Domain Recognized before continue](#).

Next >

vLAB登録手順 (4)

The screenshot displays the Juniper vLAB registration form. The form includes the following fields and sections:

- Header:** JUNIPER NETWORKS logo and navigation links: Products & Services, Support, Training, How to Buy, and a search icon.
- Form Fields:**
 - First Name * (text input)
 - Last Name * (text input)
 - Personal Use (checkbox)
 - Company Name * (text input)
 - Company URL (text input)
 - Job Title (text input)
 - Job Function * (dropdown menu)
 - Phone Number * (text input)
 - Phone Extension (text input)
 - Fax Number (text input)
 - Address 1 * (text input)
 - Address 2 (text input)
 - City * (text input)
 - State/Province * (dropdown menu)
 - Zip/Postal Code * (Type N/A if not applicable) (text input)
 - Country Japan (text input)
 - Time Zone * (dropdown menu)
- Footer:** Services, About Juniper, Partners, and Community links.

A red callout box on the right side of the form contains the text "必須項目の入力" (Input of required items). A red arrow points to the "Next >" button at the bottom of the form.

vLAB登録手順 (5)

JUNIPER NETWORKS Products & Services Support Training How to Buy

USER REGISTRATION

TO DOWNLOAD ENCRYPTED SOFTWARE
This agreement is required by US Law to download encrypted software. If you decline this agreement, your account will still be created, however, you will not have access to encrypted software.

THE AGREEMENT
You have accessed this webpage either after applying for a new account on behalf of a Juniper Networks customer or partner ("Company") or through an account already opened by Juniper Networks to such a Company. The account (the "Account") has (or will have) a specific Juniper Networks enables the account for download of Juniper Networks Encryption Items, you must complete and submit the Certification and Undertaking Regarding Export of Juniper Networks Encryption Items ("Certification and Undertaking").

ANYONE WHO USES THE ACCOUNT TO ACCESS JUNIPER NETWORKS ENCRYPTION SOFTWARE ADOPTS AND AGREES TO THE TERMS OF THE Certification and Undertaking.
Certification and Undertaking Regarding Export of Juniper Networks Encryption Items ("CERTIFICATION AND UNDERTAKING")

Name

Email Address

Phone Number

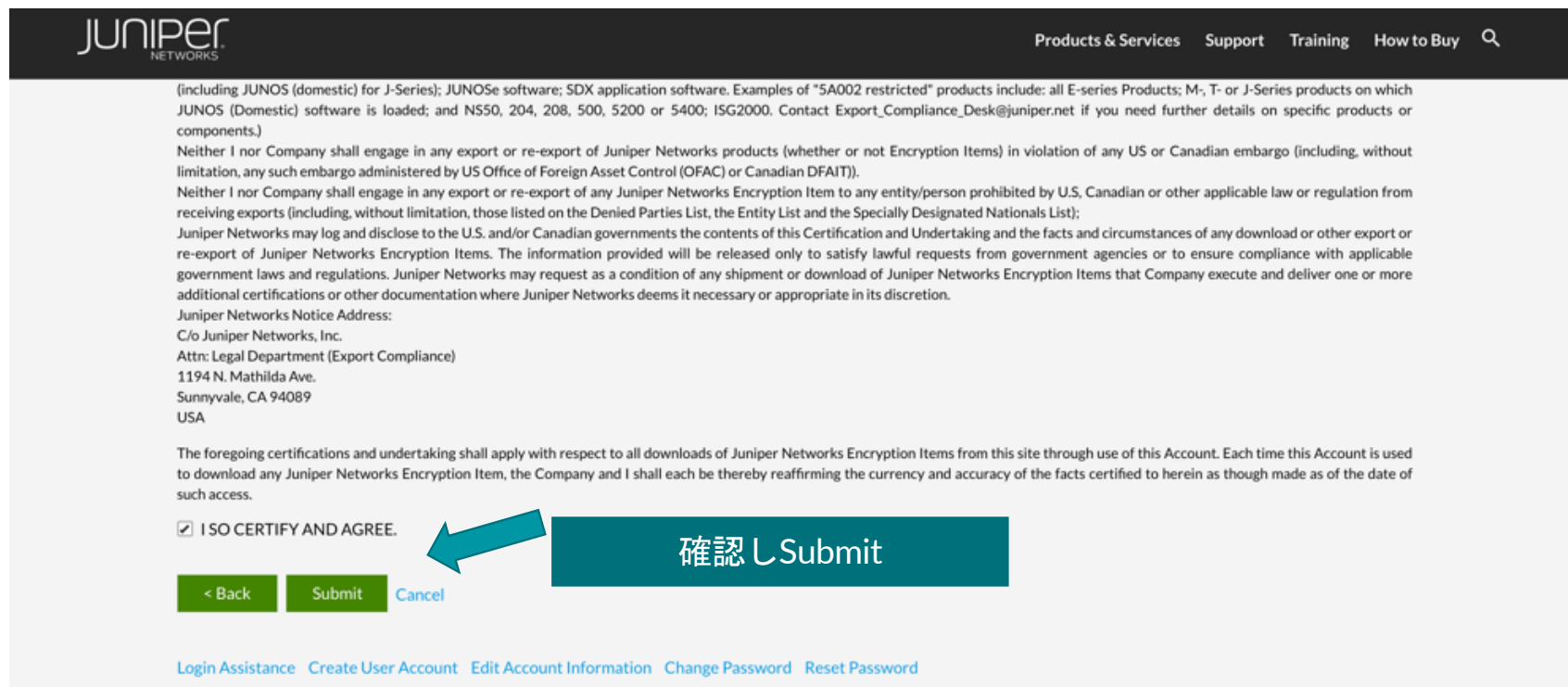
Address

City, State, Zip

On my own behalf and on behalf of Company, I hereby certify, represent and agree as follows:

登録内容の確認

vLAB登録手順 (6)



The screenshot shows the Juniper Networks vLAB registration page. At the top, the Juniper Networks logo is on the left, and navigation links for 'Products & Services', 'Support', 'Training', and 'How to Buy' are on the right. The main content area contains several paragraphs of legal text regarding export controls and encryption items. Below the text, there is a checkbox labeled 'I SO CERTIFY AND AGREE.' which is checked. To the right of this checkbox is a large teal button with the text '確認し Submit'. A teal arrow points from this button to the checkbox. Below the checkbox are three buttons: '< Back' (teal), 'Submit' (green), and 'Cancel' (light blue). At the bottom of the page, there are links for 'Login Assistance', 'Create User Account', 'Edit Account Information', 'Change Password', and 'Reset Password'.

JUNIPER NETWORKS

Products & Services Support Training How to Buy

(including JUNOS (domestic) for J-Series); JUNOSe software; SDX application software. Examples of "5A002 restricted" products include: all E-series Products; M-, T- or J-Series products on which JUNOS (Domestic) software is loaded; and NS50, 204, 208, 500, 5200 or 5400; ISG2000. Contact Export_Compliance_Desk@juniper.net if you need further details on specific products or components.)

Neither I nor Company shall engage in any export or re-export of Juniper Networks products (whether or not Encryption Items) in violation of any US or Canadian embargo (including, without limitation, any such embargo administered by US Office of Foreign Asset Control (OFAC) or Canadian DFAIT).

Neither I nor Company shall engage in any export or re-export of any Juniper Networks Encryption Item to any entity/person prohibited by U.S. Canadian or other applicable law or regulation from receiving exports (including, without limitation, those listed on the Denied Parties List, the Entity List and the Specially Designated Nationals List);

Juniper Networks may log and disclose to the U.S. and/or Canadian governments the contents of this Certification and Undertaking and the facts and circumstances of any download or other export or re-export of Juniper Networks Encryption Items. The information provided will be released only to satisfy lawful requests from government agencies or to ensure compliance with applicable government laws and regulations. Juniper Networks may request as a condition of any shipment or download of Juniper Networks Encryption Items that Company execute and deliver one or more additional certifications or other documentation where Juniper Networks deems it necessary or appropriate in its discretion.

Juniper Networks Notice Address:
C/o Juniper Networks, Inc.
Attn: Legal Department (Export Compliance)
1194 N. Mathilda Ave.
Sunnyvale, CA 94089
USA

The foregoing certifications and undertaking shall apply with respect to all downloads of Juniper Networks Encryption Items from this site through use of this Account. Each time this Account is used to download any Juniper Networks Encryption Item, the Company and I shall each be thereby reaffirming the currency and accuracy of the facts certified to herein as though made as of the date of such access.

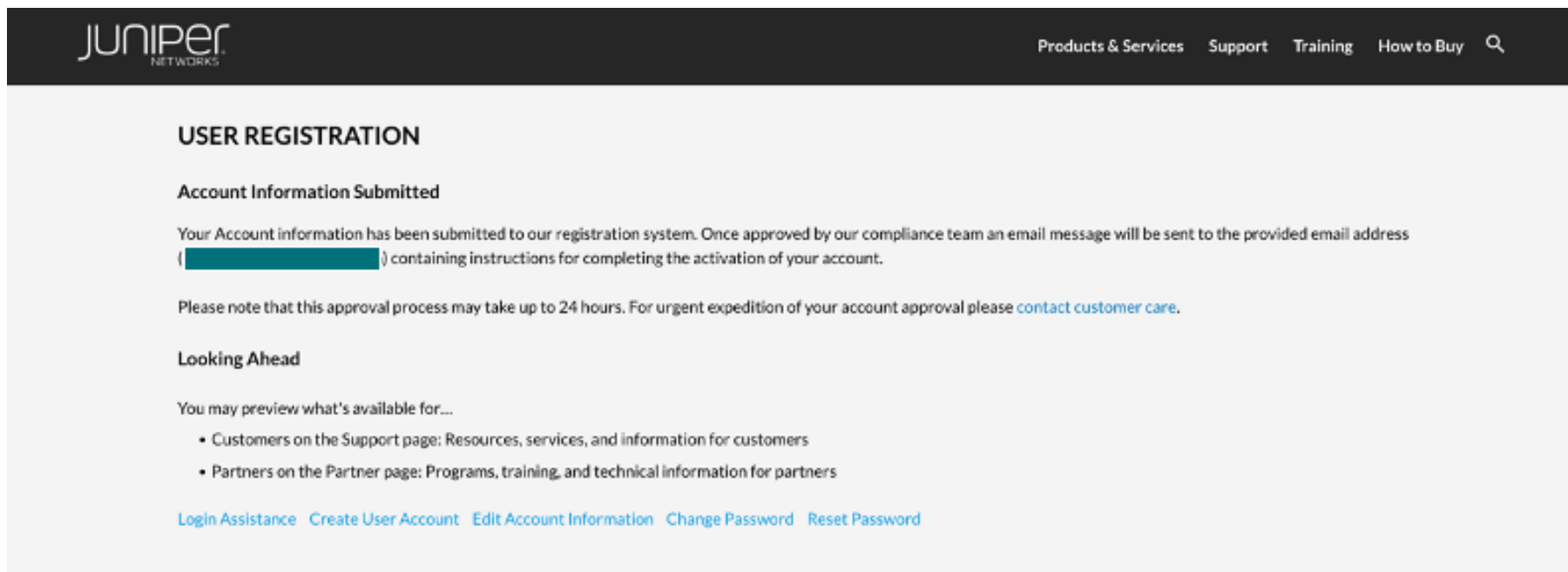
I SO CERTIFY AND AGREE.

確認し Submit

< Back Submit Cancel

[Login Assistance](#) [Create User Account](#) [Edit Account Information](#) [Change Password](#) [Reset Password](#)

vLAB登録手順 (7)



The screenshot shows the Juniper Networks website's user registration page. The header includes the Juniper Networks logo and navigation links for Products & Services, Support, Training, and How to Buy. The main content area is titled "USER REGISTRATION" and contains the following text:

Account Information Submitted

Your Account information has been submitted to our registration system. Once approved by our compliance team an email message will be sent to the provided email address ([redacted]) containing instructions for completing the activation of your account.

Please note that this approval process may take up to 24 hours. For urgent expedition of your account approval please [contact customer care](#).

Looking Ahead

You may preview what's available for...

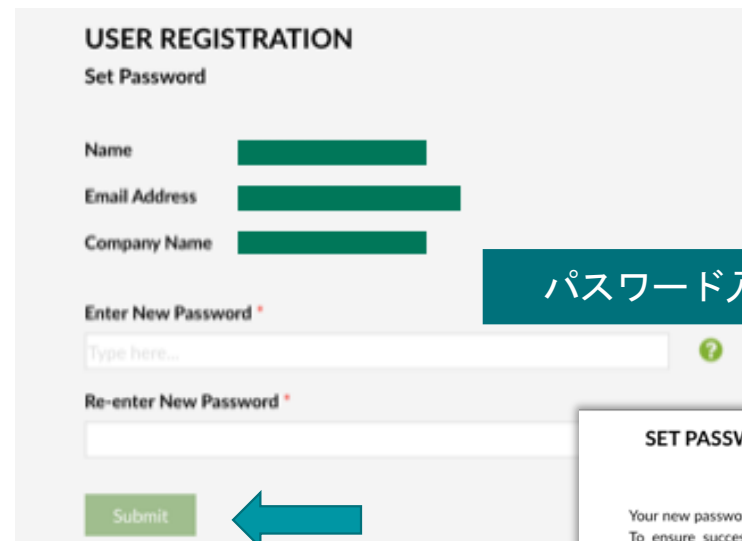
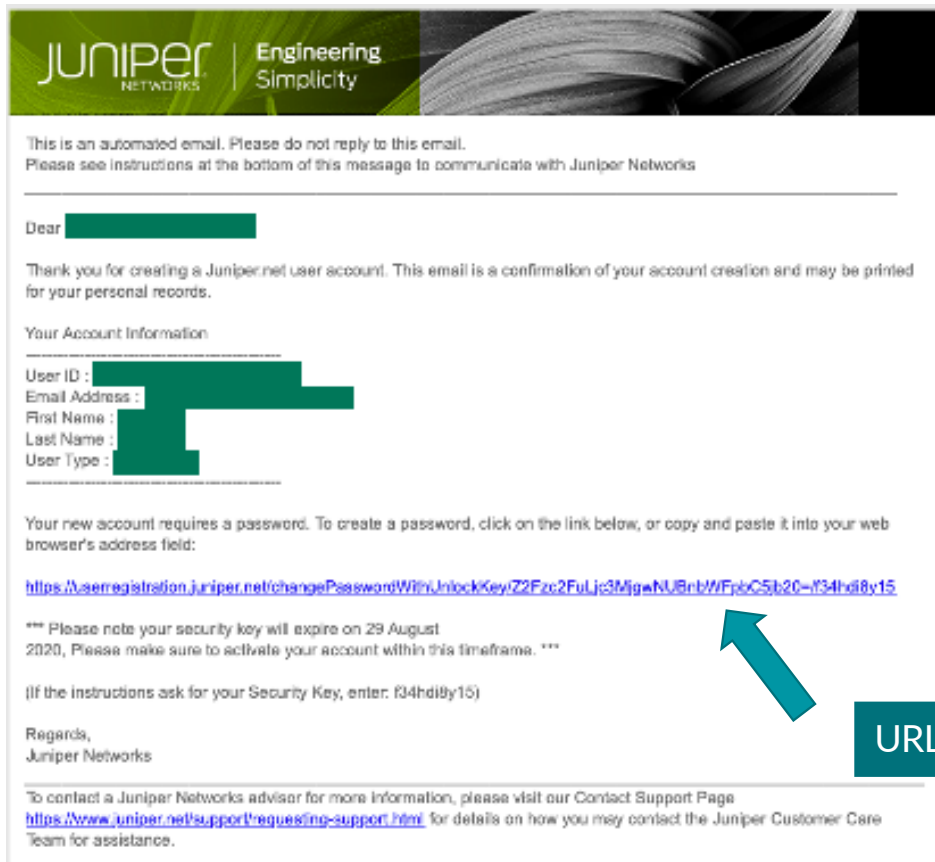
- Customers on the Support page: Resources, services, and information for customers
- Partners on the Partner page: Programs, training, and technical information for partners

At the bottom, there are links for [Login Assistance](#), [Create User Account](#), [Edit Account Information](#), [Change Password](#), and [Reset Password](#).

すぐにメールが来ません。1-2時間くらい待ちます。

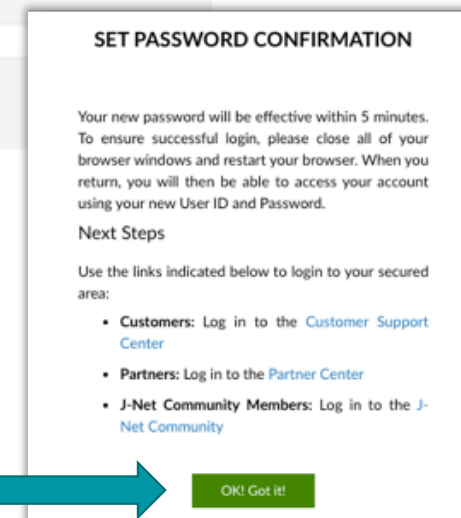
vLAB登録手順 (8)

登録したアドレス宛にメールが届きます。



パスワード入力

URLへアクセスしパスワード設定



vLAB登録手順 (9)

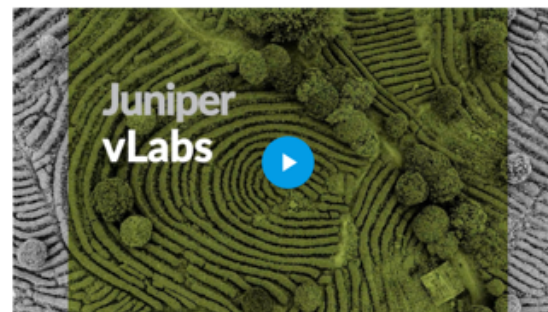
Use pre-built topologies to explore our products and solutions—all for free!

Test drive vMX, vSRX, Contrail HealthBot, Contrail Enterprise Multicloud, and much more.

What's New

Check out our latest topologies, including:

[Contrail Enterprise Multicloud with PNF Segment Routing \(Basic\)](#)
[Standalone cSRX](#)



Let's get started

login

1. [Sign up or log in.](#) (New user? Read [this.](#))
2. Choose a topology from our list of offerings.
3. Reserve the vLab using the graphical interface.

We'll provide you with topology-specific details after you've logged in.

vLAB登録手順 (9)

Connecting to Sign-in with your Juniper Networks Inc. account to access J.Labs.Juniper.net

JUNIPER
NETWORKS

Sign In

Email ID [xyz@abc.com]

Password

Remember me

Sign In

Need help signing in?

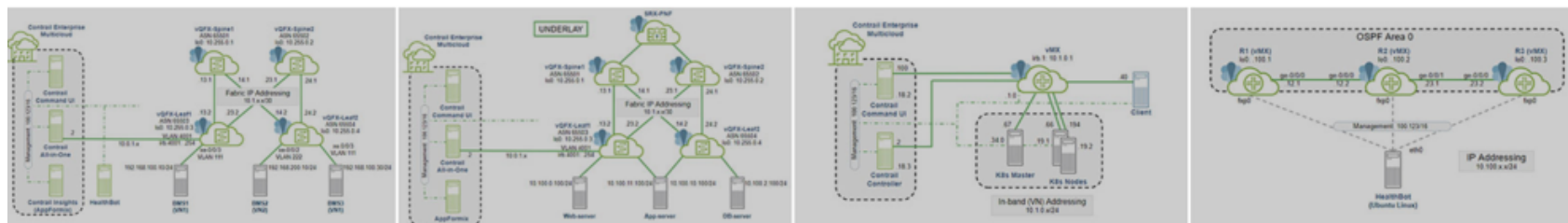
登録したメールアドレス

vLAB利用手順 (1)

The screenshot shows the Juniper vLabs website interface. At the top, the Juniper Networks logo is on the left, and navigation links for 'Products & Services', 'Support', and 'Training' are on the right. A user is logged in as 'MASAYA SUGA (Sign Out)'. A teal box with the text 'ログインアカウント' (Login Account) and a teal arrow points to the user's name. The main banner features the text 'Juniper vLabs' and 'Try it. Right now.' Below the banner is a horizontal menu with categories: 'Standalone', 'Routing', 'Switching', 'Security', 'Automation', and 'Network Management, Telemetry, and Analytics'. The 'Standalone' category is highlighted with a dark blue bar. Below the menu, the text 'Welcome to Juniper vLabs!' is followed by 'Choose a topology from the list below.' To the right, under the heading 'Resources', there are links for 'How-to Videos', 'Juniper vLabs User Guide', and 'Juniper vLabs FAQ'.

vLAB利用手順 (2)

Network Management, Telemetry, and Analytics



Contrail Enterprise Multicloud

- Contrail 2003 with Contrail Command UI
- Contrail Insights (AppFormix) 3.1.15
- 4 vQFXs running Junos OS 18.1R3-S5
- BMSs running CentOS 7.4

[More information >](#)

[Launch >](#)

Contrail Enterprise Multicloud with PNF

- Contrail 1909 with Contrail Command UI; Contrail Insights (AppFormix) 3.1.2
- 4 vQFXs running Junos OS 18.1R3-S5
- vSRX providing PNF functionality
- BMSs running CentOS 7.4

[More information >](#)

[Launch >](#)

Contrail Enterprise Multicloud with Kubernetes

- Contrail 1910 with Contrail Command UI
- 1 vMX running Junos OS 18.1R3-S5
- Kubernetes 1.12

[More information >](#)

[Launch >](#)

HealthBot

- Healthbot 3.0.0 on Linux server
- 3 vMXs running Junos OS 18.3R1.9

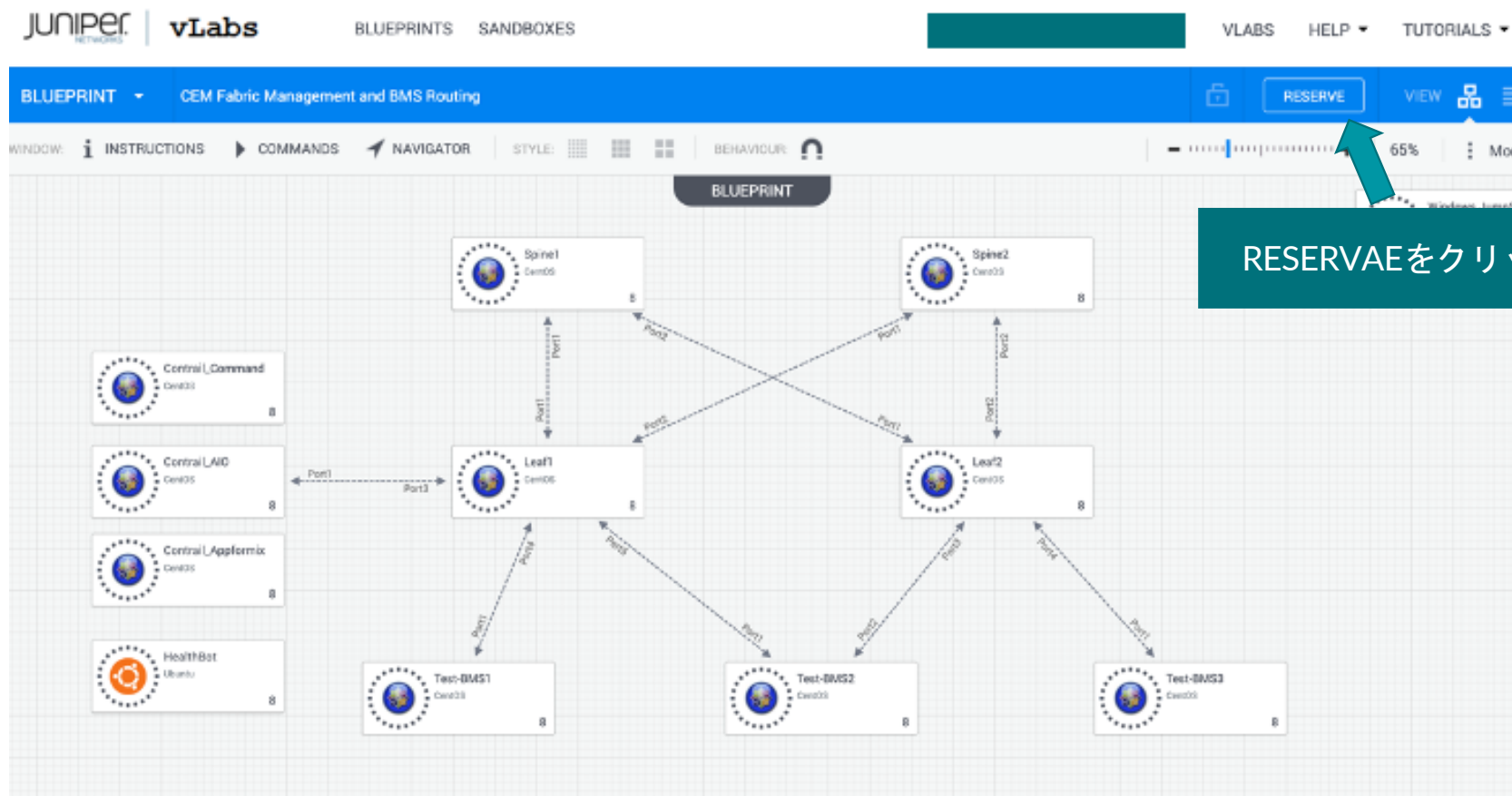
[More information >](#)

[Launch >](#)

VLAB開始

VLABの構成等の情報確認

vLAB利用手順 (3)



vLAB利用手順 (4)

The screenshot shows the 'RESERVE' dialog box in the Juniper vLabs interface. The dialog is titled 'RESERVE' and has a close button (X) in the top right corner. Below the title bar, there is a 'Current Timezone: UTC' indicator. The main content area is divided into several sections:

- SCHEDULE:** 3 hours (From Now until 8/19/2020 3:09 PM)
Requires 15min. setup
Planned End 8/19/2020 3:19 PM
Maximum duration for this sandbox is 6 hours
- NAME:** CEM Fabric Management and BMS Routing
- DESCRIPTION:** Contrail 2003 with Contrail Command UI; Insights (AppFormix) 3.1.15
4 vQFXs running Junos OS 18.1R3-S5
BMSs running CentOS 7.4
- OWNER:** [Redacted]
- PERMITTED USERS:** [Redacted]
- EMAIL NOTIFICATIONS:** 1 Hour Before end
- BLUEPRINT:** CEM Fabric Management and BMS Routing

At the bottom, there is a table of parameters:

PARAMETER	VALUE	All (21)
Email_Setup_Custom2_2	Contrail Command and Contrail Cluster GUI: admin/contrail...	

Buttons for 'Reserve' and 'Cancel' are at the bottom right. A teal arrow points to the pencil icon in the top right of the dialog, and a teal callout box contains the text '編集 デフォルトで3時間'.

vLAB利用手順 (5)

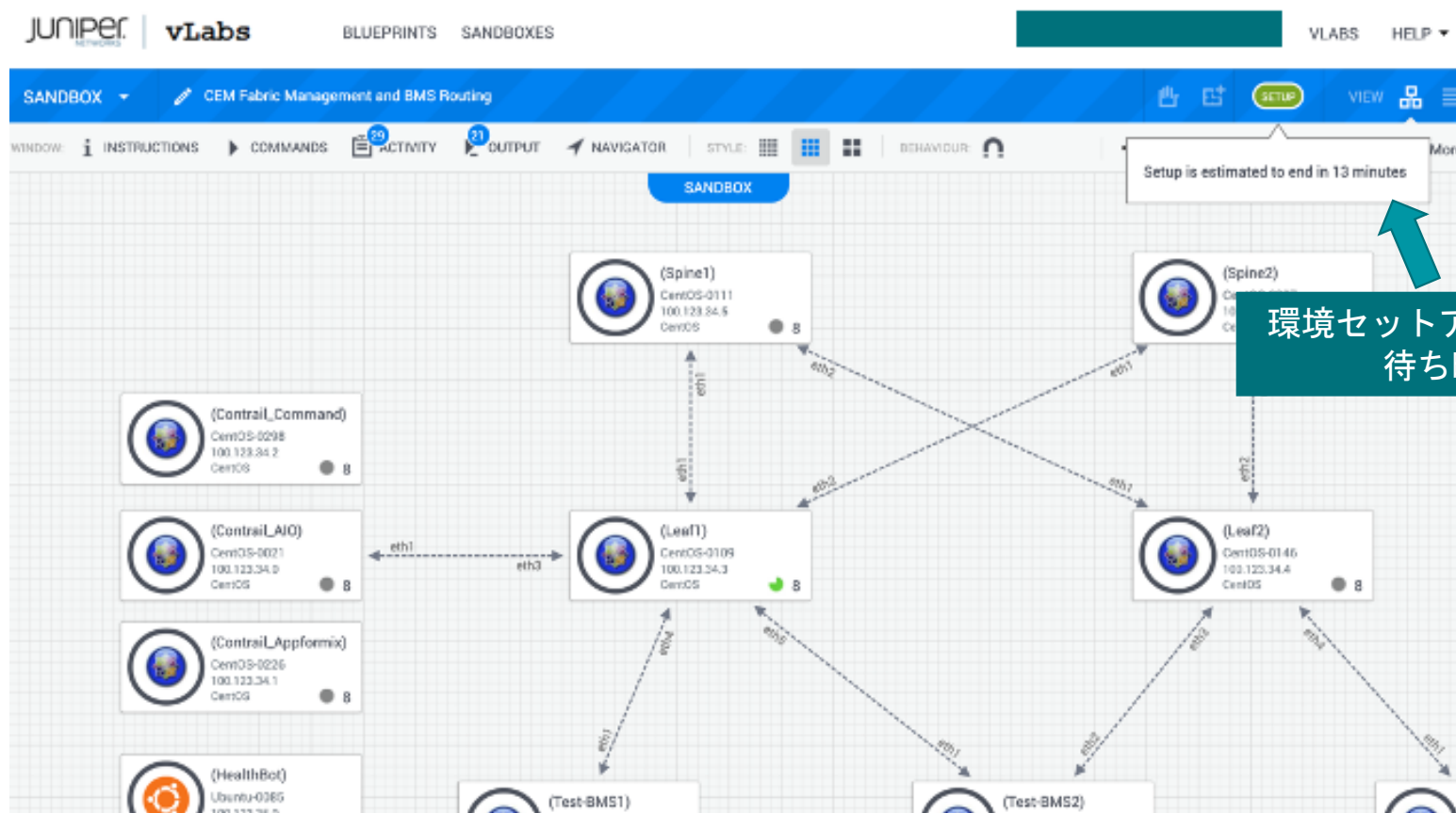
The screenshot shows the 'RESERVE' interface with the following details:

- SCHEDULE:** 3 hours (From Now until 8/19/2020 3:09 PM). Includes subtext: Requires 15min. setup, Planned End 8/19/2020 3:19 PM, Maximum duration for this sandbox is 6 hours.
- Start from:** Now
- For (Duration):** 0 Weeks, 0 Days, 3 Hours, 0 Minut...
- NAME:** CEM Fabric Management and BMS Routing
- DESCRIPTION:** Contrail 2003 with Contrail Command UI; Insights (AppFormix) 3.1.15, 4 vQFXs running Junos OS 18.1R3-S5, BMSs running CentOS 7.4
- OWNER:** [Redacted]
- PERMITTED USERS:** [Redacted]
- EMAIL NOTIFICATIONS:** 1 Hour Before end

Buttons at the bottom: Reserve, Cancel.

VLABの稼働時間を設定

vLAB利用手順 (6)



vLAB利用手順 (7)

The screenshot shows the Juniper vLabs interface. At the top, there is a navigation bar with 'JUNIPER NETWORKS | vLabs' and tabs for 'BLUEPRINTS' and 'SANDBOX'. Below this is a blue header bar with 'SANDBOX' and 'CEM Fabric Management'. The main workspace is a grid of network device icons, including (Spine1), (Spine2), (Leaf1), (Leaf2), (Central_Command), (Central_AIG), (Central_ApplForm), (HeadBct), (Test-BMS1), and (Test-BMS2). A teal callout box with white text is positioned over the 'COMMANDS' tab and the right-hand panel. The callout text reads: 'COMMANDをクリックし Add Allowed Network Prefixes をクリック'. A teal arrow points from the 'COMMANDS' tab to the 'Add Allowed Network Prefixes' link in the right-hand panel. The right-hand panel is titled 'BLUEPRINT COMMANDS' and contains a list of commands under 'OOB Management - Allowed Network Prefixes (1)'. The list includes 'Add Allowed Network Prefixes' (with a description 'Direct access to the resources in L...') and 'Uncategorized (2)' which contains 'Setup' and 'Teardown' (both with 'No description'). A 'Quick Search...' field is at the bottom of the panel.

COMMANDをクリックし
Add Allowed Network Prefixes
をクリック

SANDBOX

WINDOW: INSTRUCTIONS COMMANDS ACTIVITY OUTPUT NAVIGATOR STYLE: BEHAVIOUR: 65% More

Sandbox Commands
Toggle the 'Sandbox commands' window. Use the window to review and execute blueprint's provisioning commands

(Spine1)
Cwa08-0198
100.123.34.5
Cwa08

(Spine2)
Cwa08-0819
100.123.34.6
Cwa08

(Central_Command)
Cwa08-0161
130.123.34.3
Cwa08

(Central_AIG)
Cwa08-0262
130.123.34.6
Cwa08

(Central_ApplForm)
Cwa08-0275
130.123.34.1
Cwa08

(HeadBct)
Uba08-0100
130.123.35.6
Uba08

(Leaf1)
Cwa08-0298
100.123.34.3
Cwa08

(Leaf2)
Cwa08-0139
100.123.34.4
Cwa08

(Test-BMS1)
Cwa08-0315
100.123.34.7
Cwa08

(Test-BMS2)
Cwa08-0322
100.123.34.8
Cwa08

BLUEPRINT COMMANDS
EXPAND ALL COLLAPSE ALL SHOW All Categories

OOB Management - Allowed Network Prefixes (1)

Add Allowed Network Prefixes
Direct access to the resources in L...

Uncategorized (2)

Setup
No description

Teardown
No description

Quick Search...

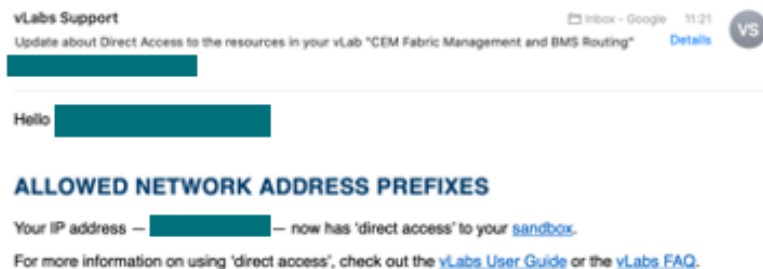
vLAB利用手順 (8)

The screenshot shows the Juniper vLabs interface. The main workspace displays a network diagram with several nodes: (Spine1) [CienaOS-E198], (Central_L_Command) [CienaOS-E151], (Central_L_A0) [CienaOS-E298], (Central_L_Approxm) [CienaOS-E376], (HealthBot) [Ubuntu-0100], (Leaf1) [CienaOS-E298], and (Test-BMS1) [CienaOS-0615].

On the right, the 'BLUEPRINT COMMANDS' panel is open, showing a list of commands. The 'Add Allowed Network Prefixes' command is selected. The 'COMMAND INPUTS' section shows a text input field for 'List_Of_Prefixes (String)'. A teal arrow points to this field, and a teal box contains the text: 自身のグローバルIPを登録 例：x.x.x.x/32. Another teal arrow points down to the 'Run' button.

vLAB利用手順 (9)

登録したメールアドレスにアクセス用のアドレスとポートが送られてくる

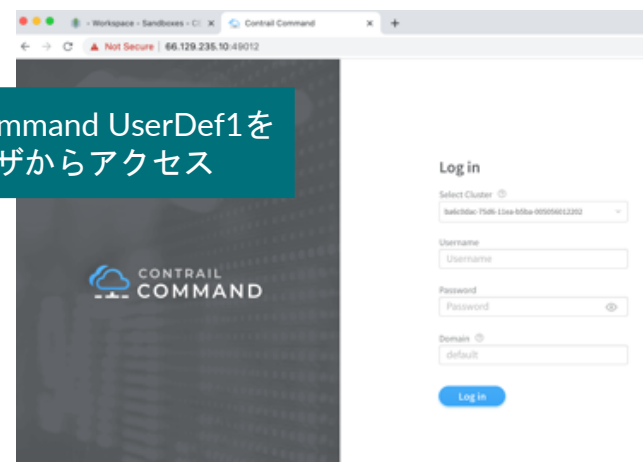


PORT FORWARDING INFORMATION

With your 'direct access' permission, you can now access the devices directly, as follows:

Abstract Resource Name	Protocol	Public IP Address	Public Port
Contrail_AIO	SSH	66.129.235.10	49001
Contrail_AIO	UserDef1	66.129.235.10	49002
Contrail_AIO	UserDef3	66.129.235.10	49004
Contrail_Appformix	SSH	66.129.235.10	49006
Contrail_Appformix	UserDef1	66.129.235.10	49007
Contrail_Appformix	UserDef3	66.129.235.10	49009
Contrail_Command	SSH	66.129.235.10	49011
Contrail_Command	UserDef1	66.129.235.10	49012
Contrail_Command	UserDef3	66.129.235.10	49014

Contrail Command UserDef1をブラウザからアクセス



```
Macbook:~ m5aya$ sudo ssh jcluser@66.129.235.10 -p 49012
jcluser@66.129.235.10's password:
Last login: Wed Aug 19 19:38:58 2020 from kd059138@41015.ppp-bb.dion.ne.jp
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[jcluser@CentOS ~]$ su
Password:
[root@CentOS jcluser]# virsh list
setlocale: No such file or directory
-----
 Id   Name      State
-----
 1    vqfx-re   running
 2    vqfx-pfe  running

[root@CentOS jcluser]# virsh console 1
setlocale: No such file or directory
Connected to domain vqfx-re
Escape character is ^]

Password:
Login incorrect
login: jcluser
Password:

--- JUNOS 18.1R3-S5.3 built 2019-04-27 13:13:59 UTC
(master:0)
jcluser@leaf1>
```

Leaf1のSSHアクセスを



Thank you

JUNIPER
NETWORKS

Engineering
Simplicity