Installation Guide
Nov-2016 rev.a

vxAG Installation Guide
for Amazon Web Services (AWS)

Revision History

Date	Description
February 4, 2016	Initial official version.
November 8, 2016	Added the information about Pre-license.

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1 Introduction

The Array vxAG appliance is an SSL-based VPN platform that offers fast, secure, and scalable remote access to Web and non-Web applications. Amazon Web Services (AWS) is a leading cloud-computing platform that helps enterprises move their business from the physical network infrastructure to the cloud.

vxAG for AWS is a virtual appliance integrated with the AWS cloud environment, providing almost all of the features of physical AG Series appliances. The vxAG appliance offers fast, secure, and scalable remote access to Web and non-Web applications. The vxAG appliance establishes security with AAA and user policies, provides access methods for Web, mail, file and native application servers, and assures scalability with the virtual site and HA technology. By integrating these features into a single virtual appliance, the vxAG appliance delivers secure remote and mobile access to trusted employees, customers, and partners anywhere, anytime while protecting the AWS-hosted network resources.

Array vxAG is available as an Amazon Machine Image (AMI) in the AWS marketplace and can be deployed as an Amazon Elastic Cloud Compute (EC2) instance. With this support, AWS customers can leverage Array vxAG SSL VPN and other valuable features to better meet their business needs.

Note: The vxAG appliance is also an SSL-based secure application platform that can also support the DesktopDirect solution.

1.1 How Array vxAG Works on AWS

AWS provides different types of Web services, such as Amazon Virtual Private Cloud (VPC) and EC2. Amazon VPC provisions a private, isolated section of the Amazon Web Services (AWS) cloud where you can launch Amazon AWS resources in a virtual network that you define. With Amazon VPC, you can define a virtual network topology that closely resembles a traditional network that you might operate in your own data center. Amazon EC2 is a Web service that provides resizable compute capacity in the cloud. Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instance types comprise varying combinations of CPU, memory, storage, and networking capacity and give you the flexibility to choose the appropriate mix of resources for your applications.

In deployment, Array vxAG and application servers are launched as EC2 instances within an Amazon VPC, as shown in the following figure.

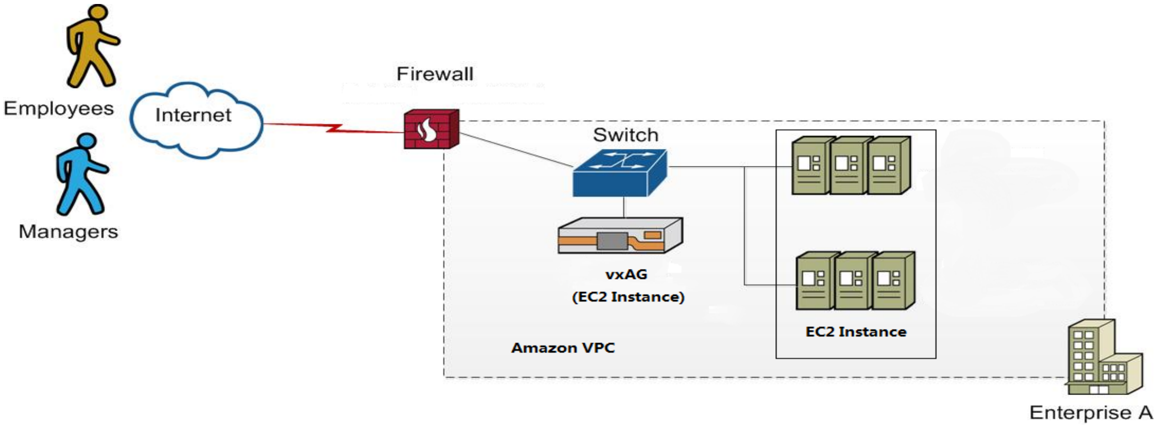


Figure 1-1 Typical Deployment Scenario of vxAG for AWS

For more information, please refer to http://aws.amazon.com/documentation.

1.2 Recommended Instance Types

The vxAG computation and network performance is based upon the resources of the underlying AWS instance type. Following are the EC2 Instance Types that are recommended for vxAG.

Instance Type	vCPU	Memory	Network Performance	Max Virtual Site	Max Session	Suggested Concurrent Users
t2.small	1	2	Low	20	600	1-5
t2.medium	2	4	Medium	256	10000	5-20
m4.large	2	8	High	256	25000	20-100
m4.xlarge	4	16	High	256	128000	100+

Table 1-1 Recommended Instance Types

When an EC2 instance is launched, the specified instance type determines the resources allowed for the vxAG, such as number of vCPUs, memory size, network performance, number of ENIs and the number of private IP addresses per ENI. For details on compute, memory, and storage capabilities of each instance type, please refer to http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/instance-types.html.

1.3 Usage Limitations and Guidelines

- In the AWS cloud service architecture, if the vxAG is deployed with multiple network interfaces, the AWS VPC needs to be used. You should configure the VPC route table correctly to make sure that the management and external subnets are publicly accessible.
- vxAG for AWS supports the following features:
-

  - Host checking
  - Cache cleaner
  - SSL encryption for data in transit
  - Per-user policy engine
  - Multiple access methods (Web, Layer 3, client-server, thin client)
  - 64-bit architecture
  - Non-disruptive upgrades up to 600 concurrent users and 500Mbps throughput

- vxAG for AWS supports both the BYOL (Bring Your Own License) model and the pre-license model. For the pre-license model, you need to purchase the AWS vxAG image with the vxAG license loaded beforehand. Users do not need to load the license again. For the BYOL model, the license specifies the maximum sessions, maximum virtual portals, and so on. When purchasing the vxAG BYOL license from Array, please specify the AWS instance type that you will use in order to receive the correct license for optimal usage. Please refer to section 2.8 Loading the vxAG License to learn how to load the vxAG BYOL license.

2 Deploying vxAG on AWS

This section describes the process of deploying the vxAG EC2 instance within the Amazon VPC.

2.1 Creating the Amazon VPC and Needed Subnets

Before deploying the vxAG, you first need to create a VPC. For each VPC, AWS creates two subnets (Management and External). If additional subnets are needed, you can add them later.

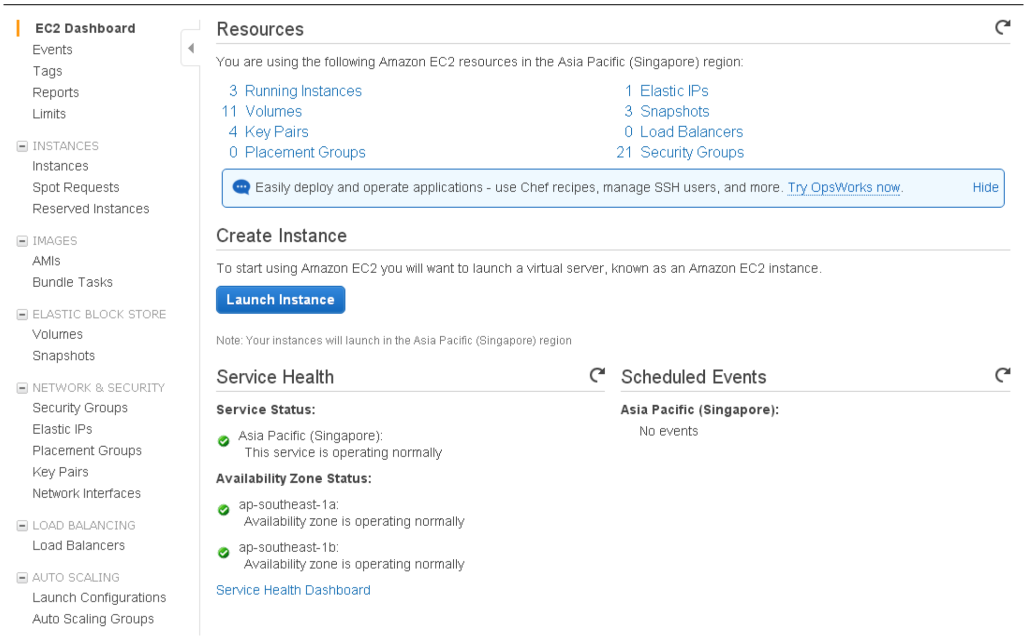
Please configure AWS routing tables to ensure that the management subnet and external subnet are accessible from the Internet.

For more information about creating and configuring the VPC, please refer to http://aws.amazon.com/cn/documentation/vpc/.

2.2 Launching the vxAG EC2 Instance

To launch the vxAG EC2 instance on AWS, please perform the following steps:

1. Log into AWS (http://aws.amazon.com) with a valid credential and switch to the AWS EC2 management console, as shown in the following figure.



You are using the following Amazon EC2 resources in the Asia Pacific (Singapore) region:

3 Running Instances	1 Elastic IPs
11 Volumes	3 Snapshots
4 Key Pairs	0 Load Balancers
0 Placement Groups	21 Security Groups

Easily deploy and operate applications - use Chef recipes, manage SSH users, and more. Try OpsWorks now.

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Note: Your instances will launch in the Asia Pacific (Singapore) region

Service Status:

✓ Asia Pacific (Singapore):
This service is operating normally

Availability Zone Status:

✓ ap-southeast-1a:
Availability zone is operating normally

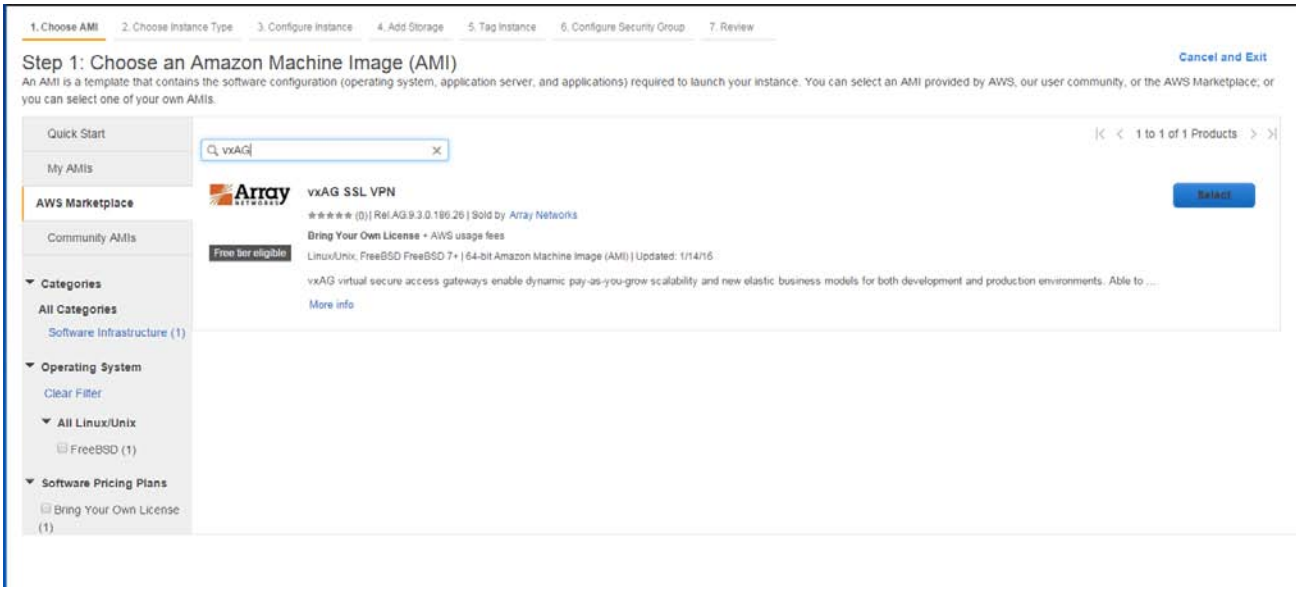
✓ ap-southeast-1b:
Availability zone is operating normally

Asia Pacific (Singapore):
No events

Figure 2-1 EC2 Management Console

2. In the **Create Instance** area of the **EC2 Dashboard** page, click the **Launch Instance** button, as shown in the preceding figure.

3. In **Step 1: Choose an Amazon Machine Image (AMI)** page, click the **AWS Marketplace** tab, enter “vxAG” in the search box and click the **Select** button, as shown in the following figure.



Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

vxAG

vxAG SSL VPN

★★★★★ (0) | Rel.AG.9.3.0.186.26 | Sold by Array Networks

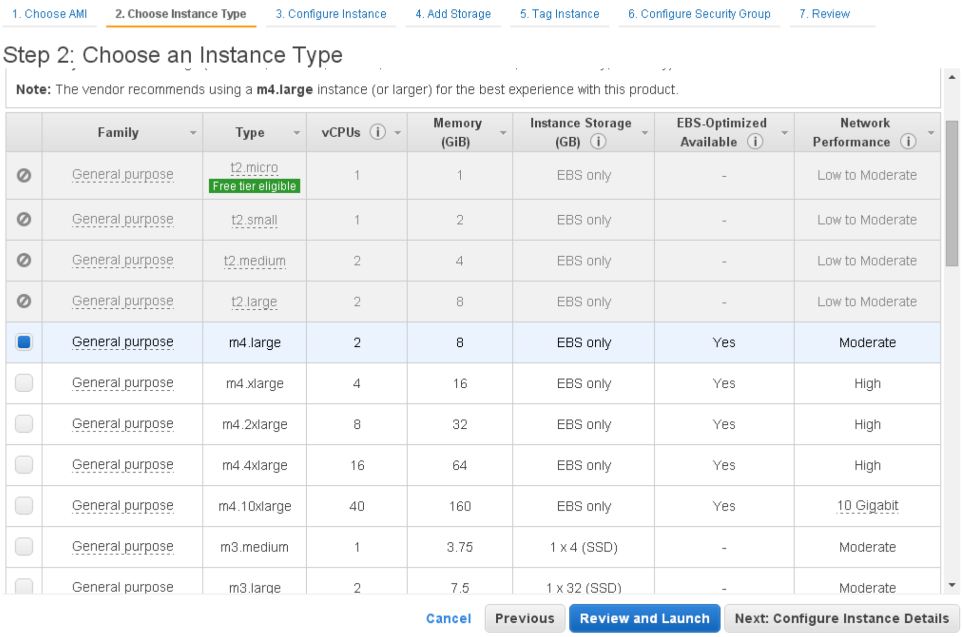
Bring Your Own License + AWS usage fees

Linux/Unix, FreeBSD FreeBSD 7+ | 64-bit Amazon Machine Image (AMI) | Updated: 1/14/16

vxAG virtual secure access gateways enable dynamic pay-as-you-grow scalability and new elastic business models for both development and production environments. Able to ...

Figure 2-2 Selecting the vxAG AMI

4. In **Step 2: Choose an Instance Type** page, select one of the instance types supported by the vxAG AMI, such as “m4.large”, and click the **Next: Configure Instance Details** button, as shown in the following figure.



Step 2: Choose an Instance Type

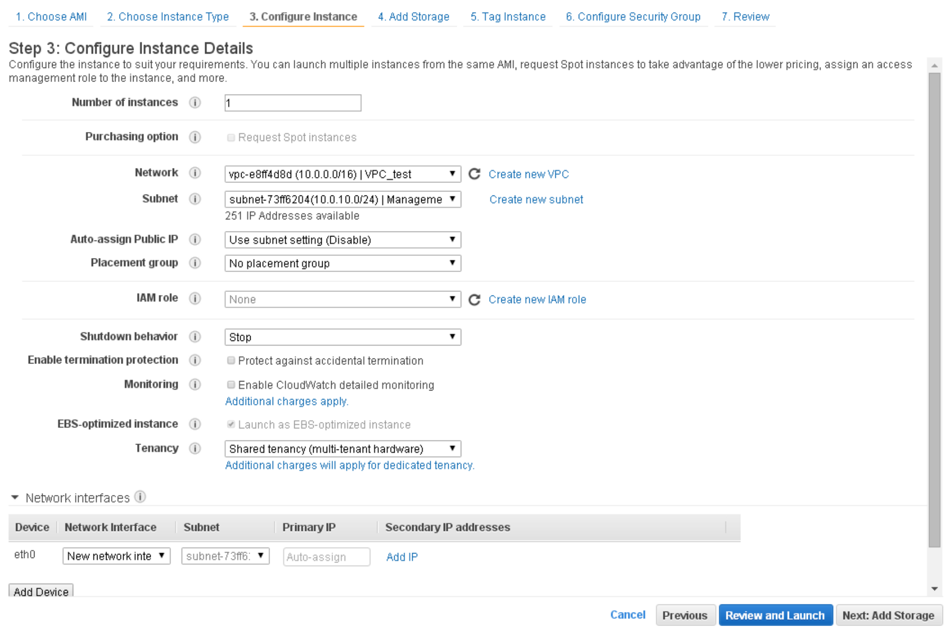
Note: The vendor recommends using a **m4.large** instance (or larger) for the best experience with this product.

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
⊘	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
⊘	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
⊘	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
⊘	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
■	General purpose	m4.large	2	8	EBS only	Yes	Moderate
□	General purpose	m4.xlarge	4	16	EBS only	Yes	High
□	General purpose	m4.2xlarge	8	32	EBS only	Yes	High
□	General purpose	m4.4xlarge	16	64	EBS only	Yes	High
□	General purpose	m4.10xlarge	40	160	EBS only	Yes	10 Gigabit
□	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Moderate
□	General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	Moderate

Figure 2-3 Selecting the Instance Type

5. In **Step 3: Configure Instance Details** page, set the **Network** parameter to an existing VPC and set the **Subnet** parameter to the management subnet of the VPC. In the **Network Interfaces** area, click the **Add Device** button to add another interface to the instance and assign the internal subnet to this new

interface. Then click the **Review and Launch** button, as shown in the following figure.



Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

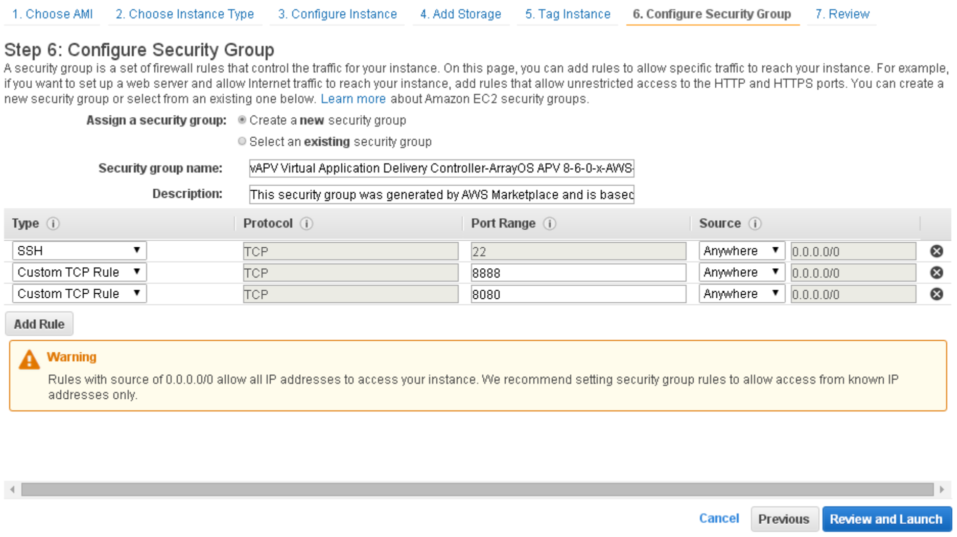
Number of instances	1
Purchasing option	□ Request Spot instances
Network	vpc-e8ff4d8d (10.0.0.0/16) | VPC_test ▼ Create new VPC
Subnet	subnet-73ff6204(10.0.10.0/24) | Manageme ▼ Create new subnet 251 IP Addresses available
Auto-assign Public IP	Use subnet setting (Disable) ▼
Placement group	No placement group ▼
IAM role	None ▼ Create new IAM role
Shutdown behavior	Stop ▼
Enable termination protection	□ Protect against accidental termination
Monitoring	□ Enable CloudWatch detailed monitoring Additional charges apply.
EBS-optimized instance	☑ Launch as EBS-optimized instance
Tenancy	Shared tenancy (multi-tenant hardware) ▼ Additional charges will apply for dedicated tenancy.

▼ Network interfaces

Device	Network Interface	Subnet	Primary IP	Secondary IP addresses
eth0	New network inte ▼	subnet-73ff6: ▼	Auto-assign	Add IP

Figure 2-4 Configuring Instance Details

6. Click the **6. Configure Security Group** tab, add security group rules to allow access via SSH and WebUI and then click the **Review and Launch** button, as shown in the following figure.



Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.

Assign a security group: ● Create a **new** security group
○ Select an **existing** security group

Security group name: vAPV Virtual Application Delivery Controller-ArrayOS APV 8-6-0-x-AWS-

Description: This security group was generated by AWS Marketplace and is basec

Type	Protocol	Port Range	Source	
SSH ▼	TCP	22	Anywhere ▼	0.0.0.0/0
Custom TCP Rule ▼	TCP	8888	Anywhere ▼	0.0.0.0/0
Custom TCP Rule ▼	TCP	8080	Anywhere ▼	0.0.0.0/0

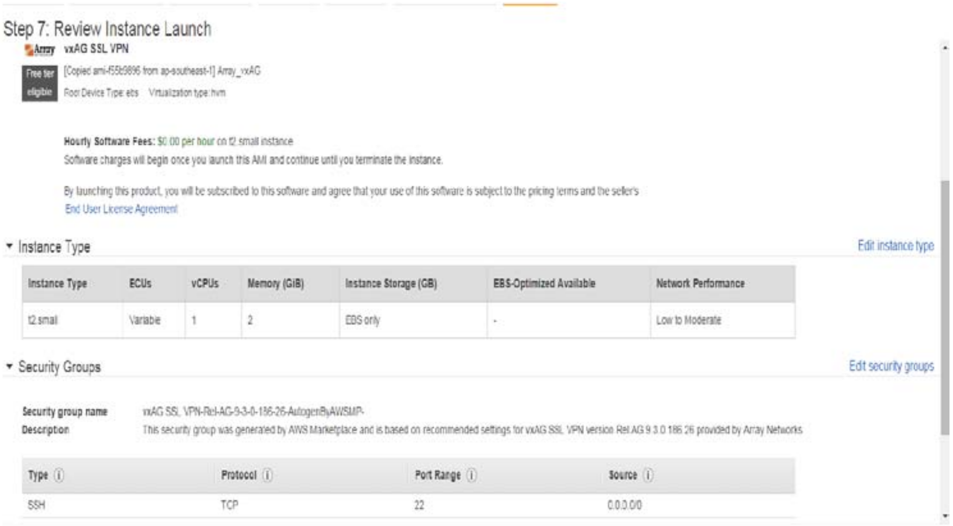
Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Figure 2-5 Configuring Security Group Rules

Note: To allow administrators to access the vxAG instance via SSH and WebUI from the Internet, please add security group rules for port 22 of SSH, for port 8888 of the WebUI.

7. Review the instance information and click the **Launch** button, as shown in the following figure.



Step 7: Review Instance Launch

vxAG SSL VPN

Free tier eligible [Copied ami-f55b9896 from ap-southeast-1] Array_vxAG

Root Device Type: ebs Virtualization type: hvm

Hourly Software Fees: $0.00 per hour on t2.small instance

Software charges will begin once you launch this AMI and continue until you terminate the instance.

By launching this product, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement

▾ Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.small	Variable	1	2	EBS only	-	Low to Moderate

▾ Security Groups

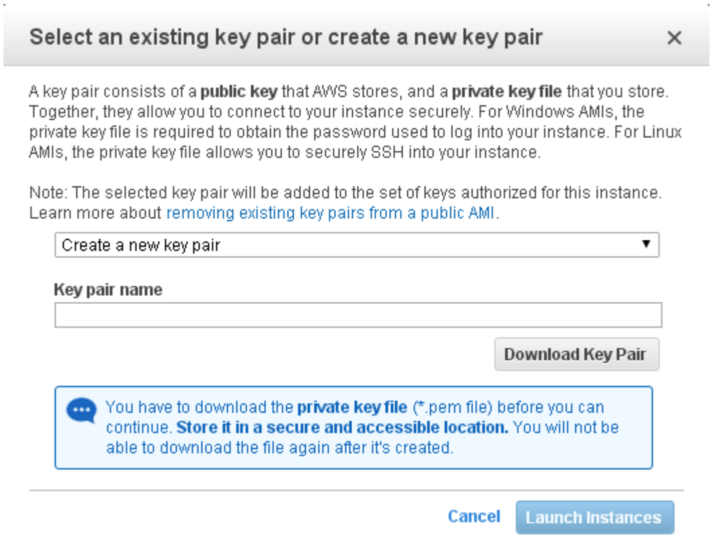
Security group name vxAG SSL VPN-Rel-AG-9-3-0-186-26-AutogenByAWSMP-

Description This security group was generated by AWS Marketplace and is based on recommended settings for vxAG SSL VPN version Rel.AG.9.3.0.186.26 provided by Array Networks

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0

Figure 2-6 Reviewing and Launching the Instance

8. In the prompted dialog box, select **Create a new key pair** from the drop-down list box, specify the **Key pair name** parameter, and click the **Download Key Pair** button to download the key file and then click the **Launch Instances**, as shown in the following figure.



Select an existing key pair or create a new key pair ✕

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

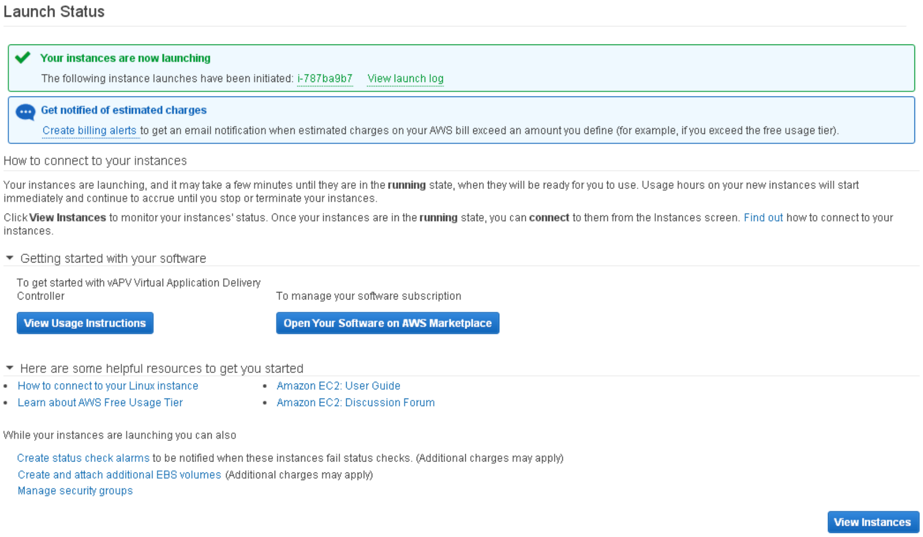
Create a new key pair ▾

Key pair name

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Figure 2-7 Creating the New Key Pair

The newly created vxAG instance will be launched successfully as shown the following figure.



Launch Status

✔ Your instances are now launching

The following instance launches have been initiated: i-787ba9b7 View launch log

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.

▾ Getting started with your software

To get started with vAPV Virtual Application Delivery Controller

To manage your software subscription

▾ Here are some helpful resources to get you started

- How to connect to your Linux instance
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- Amazon EC2: Discussion Forum

While your instances are launching you can also

Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)

Create and attach additional EBS volumes (Additional charges may apply)

Manage security groups

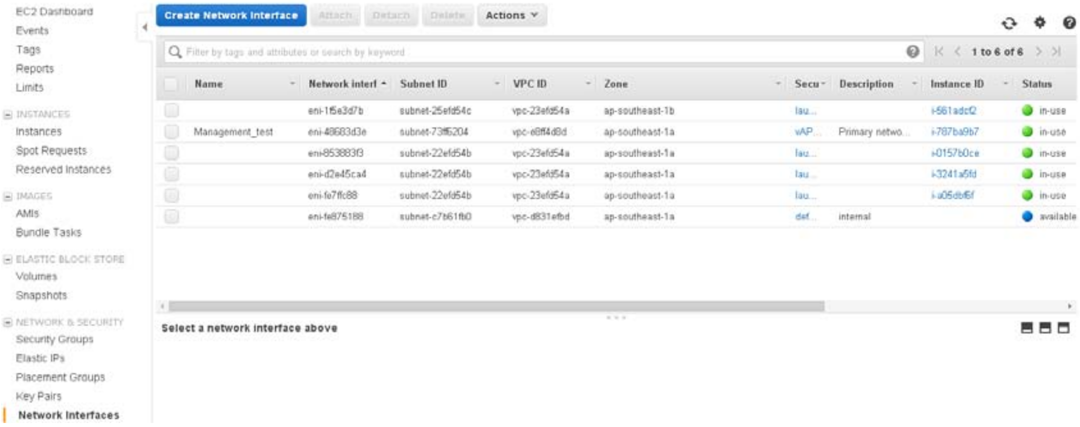
Figure 2-8 vxAG Instance Launched Successfully

2.3 Adding Other Interfaces to the vxAG Instance

To use three or more interfaces, you will need to add other interfaces to the vxAG instance after it is launched. When you add other interfaces to the vxAG instance, please make sure that the vxAG appliance is stopped. Note that the EC2 instance of the m4.large size supports two network interfaces at maximum.

To add a network interface to the vxAG instance:

1. Access the AWS EC2 management console, click the **Network Interfaces** link in the navigation pane, and then click the **Create Network Interface** button, as shown in the following figure.

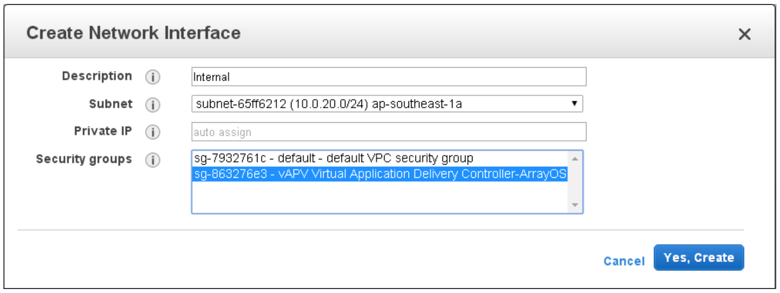


	Name	Network interf	Subnet ID	VPC ID	Zone	Secu	Description	Instance ID	Status
□		eni-1f5e3d7b	subnet-25efd54c	vpc-23efd54a	ap-southeast-1b	lau...		i-561adcf2	● in-use
□	Management_test	eni-48683d3e	subnet-73ff6204	vpc-e8ff4d8d	ap-southeast-1a	vAP...	Primary netwo...	i-787ba9b7	● in-use
□		eni-853883f3	subnet-22efd54b	vpc-23efd54a	ap-southeast-1a	lau...		i-0157b0ce	● in-use
□		eni-d2e45ca4	subnet-22efd54b	vpc-23efd54a	ap-southeast-1a	lau...		i-3241a5fd	● in-use
□		eni-fe7ffc88	subnet-22efd54b	vpc-23efd54a	ap-southeast-1a	lau...		i-a05db6f	● in-use
□		eni-fe875188	subnet-c7b61fb0	vpc-d831efbd	ap-southeast-1a	def...	internal		● available

Select a network interface above

Figure 2-9 Creating a Network Interface

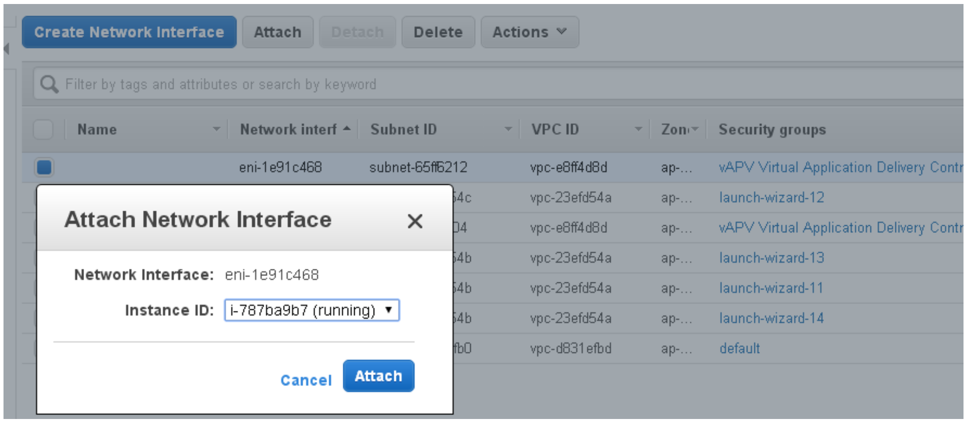
2. In the **Create New Interface** dialog box, specify the parameters and click the **Yes, Create** button, as shown in the following figure.



Description	Internal
Subnet	subnet-65ff6212 (10.0.20.0/24) ap-southeast-1a
Private IP	auto assign
Security groups	sg-7932761c - default - default VPC security group sg-863276e3 - vAPV Virtual Application Delivery Controller-ArrayOS

Figure 2-10 Setting the Parameters of the Network Interface

3. Select the entry of the newly created network interface and click the **Attach** button. In the **Attach Network Interface** dialog box, specify the **Instance ID** parameter and click the **Attach** button, as shown in the following figure.



Name	Network interf	Subnet ID	VPC ID	Zon	Security groups
	eni-1e91c468	subnet-65ff6212	vpc-e8ff4d8d	ap-...	vAPV Virtual Application Delivery Contr
		4c	vpc-23efd54a	ap-...	launch-wizard-12
		04	vpc-e8ff4d8d	ap-...	vAPV Virtual Application Delivery Contr
		4b	vpc-23efd54a	ap-...	launch-wizard-13
		4b	vpc-23efd54a	ap-...	launch-wizard-11
		4b	vpc-23efd54a	ap-...	launch-wizard-14
		fb0	vpc-d831efbd	ap-...	default

Network Interface: eni-1e91c468

Instance ID: i-787ba9b7 (running)

Figure 2-11 Attaching the Network Interface to the Instance

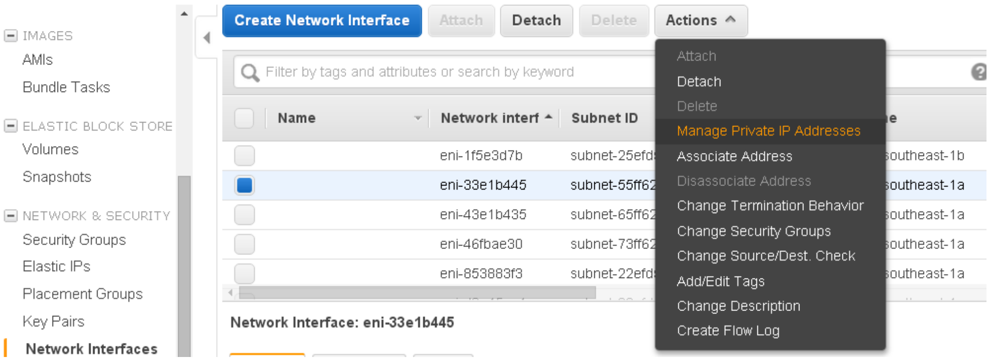
To configure the IP address for the newly added network interface, please refer to 2.7 for details.

2.4 Adding Secondary Private IP Addresses to the External Interface

To create multiple virtual sites, secondary private IP addresses (vxAG virtual site IPs) need to be added to the external interface of the vxAG instance.

To add a secondary AWS private IP address to the external interface:

1. Access the AWS EC2 management console, and click the **Network Interfaces** link in the navigation pane. Select the entry of the external interface and click the **Actions** button to select **Manage Private IP Addresses**, as shown in the following figure.

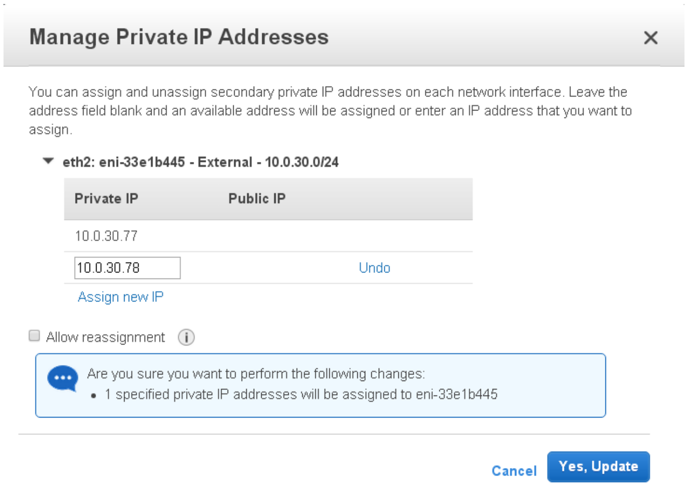


	Name	Network interf	Subnet ID	e
□		eni-1f5e3d7b	subnet-25efd	southeast-1b
☑		eni-33e1b445	subnet-55ff62	southeast-1a
□		eni-43e1b435	subnet-65ff62	southeast-1a
□		eni-46fbae30	subnet-73ff62	southeast-1a
□		eni-853883f3	subnet-22efd	southeast-1a

Network Interface: eni-33e1b445

Figure 2-12 Managing Private IP Addresses

2. In the **Manage Private IP Addresses** dialog box, click the **Assign new IP** link to add a new secondary IP address, and then click the **Yes, Update** button, as shown in the following figure.



Manage Private IP Addresses ×

You can assign and unassign secondary private IP addresses on each network interface. Leave the address field blank and an available address will be assigned or enter an IP address that you want to assign.

eth2: eni-33e1b445 - External - 10.0.30.0/24

Private IP	Public IP	
10.0.30.77		
10.0.30.78		Undo

Assign new IP

□ Allow reassignment

Are you sure you want to perform the following changes:

- 1 specified private IP addresses will be assigned to eni-33e1b445

Figure 2-13 Adding a New IP Address

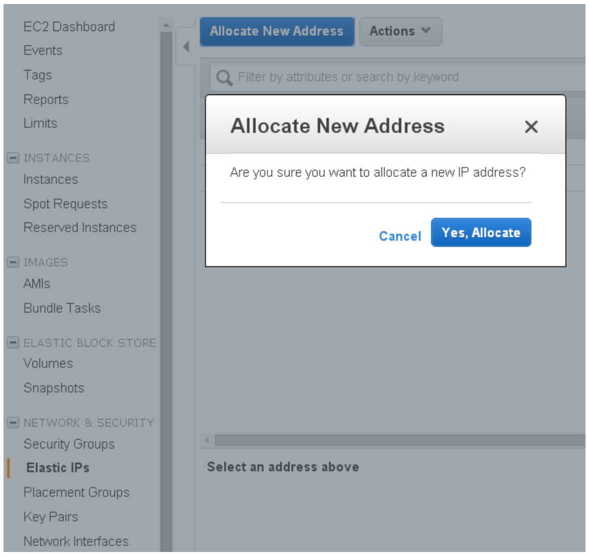
To make the secondary private IP address publicly accessible, you need to add an elastic IP and associate it with the secondary private IP address. The next section describes this process.

2.5 Adding Elastic IPs to the Network Interfaces

To make the management interface and the external interface of the vxAG instance publicly accessible, you need to add elastic IPs and associate them with the private IP addresses of the network interfaces.

To add the elastic IP to a network interface:

1. Access the AWS EC2 management console, click the **Elastic IPs** link in the navigation pane, and then click the **Allocate New Address** button. In the **Allocate New Address** dialog box, click the **Yes, Allocate** button, as shown in the following figure.



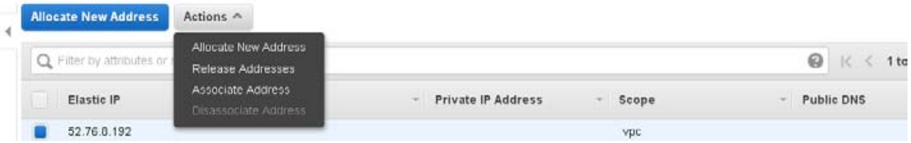
Allocate New Address

Are you sure you want to allocate a new IP address?

Select an address above

Figure 2-12 Allocating the New Address

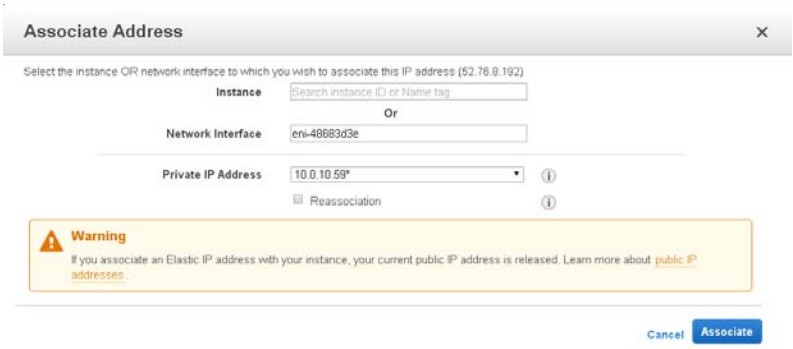
2. Select the entry of the newly created elastic IP, click the **Actions** button and select the **Associate Address** item, as shown in the following figure.



Elastic IP	Private IP Address	Scope	Public DNS
52.76.8.192		vpc	

Figure 2-13 Associating the New Address

3. In the **Associate Address** screen, specify the parameters for **Network Interface** and **Private IP Address** and click the **Associate** button, as shown in the following figure.



Associate Address

Select the instance OR network interface to which you wish to associate this IP address (52.76.8.192)

Instance: Search instance ID or Name tag

Or

Network Interface: eni-48683d3e

Private IP Address: 10.0.10.59*

□ Reassociation

Warning

If you associate an Elastic IP address with your instance, your current public IP address is released. Learn more about public IP addresses.

Figure 2-14 Associating the Elastic IP

2.6 Accessing the vxAG Instance and Setting the "array" Password

2.6.1 Accessing the vxAG Instance via SSH

You can connect to the newly created vxAG instance via SSH after the newly created vxAG instance becomes “Running”.

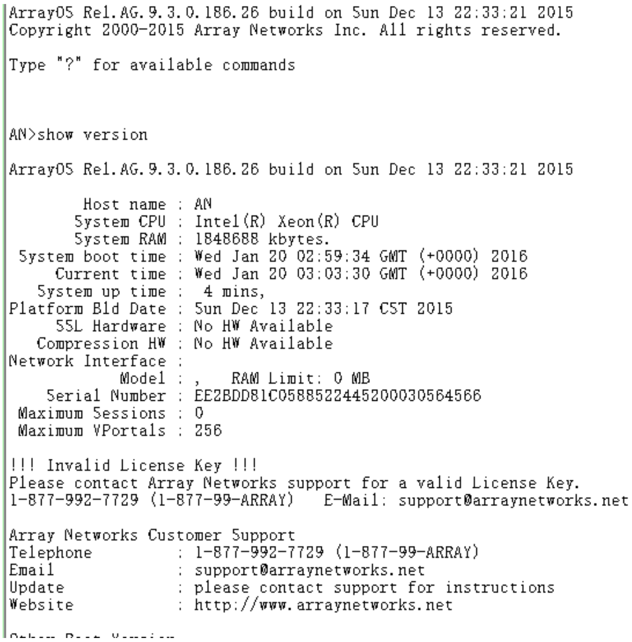
To access the vxAG instance via SSH, use the public DNS Name or IP address and the SSH port 22 as the SSH access point.

The downloaded private key file (.pem) is required to be used by SSH for logging into the newly created vxAG instance.

The vxAG AMI default administration account is "array"

ssh –i <private-key.pem> array@<vxAG IP or DNS name>

After you successfully log into the vxAG instance, the following screen will be displayed.



```
ArrayOS Rel.AG.9.3.0.186.26 build on Sun Dec 13 22:33:21 2015
Copyright 2000-2015 Array Networks Inc. All rights reserved.

Type "?" for available commands



AN>show version

ArrayOS Rel.AG.9.3.0.186.26 build on Sun Dec 13 22:33:21 2015

        Host name : AN
       System CPU : Intel(R) Xeon(R) CPU
       System RAM : 1848688 kbytes.
 System boot time : Wed Jan 20 02:59:34 GMT (+0000) 2016
     Current time : Wed Jan 20 03:03:30 GMT (+0000) 2016
   System up time :  4 mins,
Platform Bld Date : Sun Dec 13 22:33:17 CST 2015
     SSL Hardware : No HW Available
   Compression HW : No HW Available
Network Interface :
            Model : ,   RAM Limit: 0 MB
    Serial Number : EE2BDD81C05885224452000305645566
 Maximum Sessions : 0
 Maximum VPortals : 256

!!! Invalid License Key !!!
Please contact Array Networks support for a valid License Key.
1-877-992-7729 (1-877-99-ARRAY)   E-Mail: support@arraynetworks.net

Array Networks Customer Support
Telephone          : 1-877-992-7729 (1-877-99-ARRAY)
Email              : support@arraynetworks.net
Update             : please contact support for instructions
Website            : http://www.arraynetworks.net

Other Boot Version
```

Figure 2-15 Accessing the vxAG Instance via SSH

After “**show version**” is executed, the INVALID LICENSE KEY message will be displayed because you have not yet entered the license information. That process is described in section 2.8 Loading the vxAG License.

To access the vxAG via SSH and WebUI easily and securely, you should assign the admin accounts and their passwords the first time you log into vxAG. To assign a new password for the "array" account:

1. Enter "**enable**" and enter. The default is no password to enter enable mode.
2. Type "**configure terminal**" and **enter** to enter configuration mode.
3. Type “**ssh auth password on** *array*” to enable password authentication for WebUI and SSH.

4. Change the password of the default account (array) using the "**admin password** *array new_password*" command.

5. Type "**write memory all**" and enter to have vxAG retain the change after reboot.

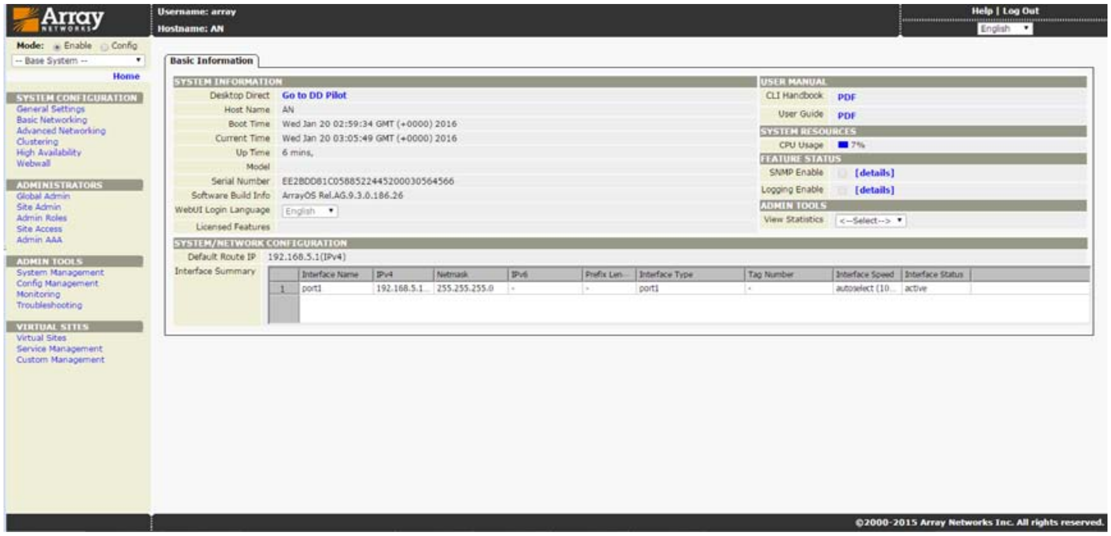
2.6.2 Accessing the vxAG Instance via WebUI

To enable vxAG WebUI access, you will first need to access the vxAG instance via SSH to perform the following configurations in the Config mode:

1. Enable the WebUI using the "**webui on**" command.

2. (Optional) Configure the WebUI port using the "**webui port**" command.

After the preceding configurations are completed, you can access the WebUI of the vxAG instance at https://<*EIP*>:<*WebUI_port*> using a Web browser. On the login page, enter "array" as the username and the previously configured "new_password" as the password to pass the authentication.



Username: array
Hostname: AN

SYSTEM INFORMATION

Desktop Direct	Go to DD Pilot
Host Name	AN
Boot Time	Wed Jan 20 02:59:34 GMT (+0000) 2016
Current Time	Wed Jan 20 03:05:49 GMT (+0000) 2016
Up Time	6 mins,
Model	
Serial Number	EE28DD81C0588522445200030564566
Software Build Info	ArrayOS Rel.AG.9.3.0.186.26
WebUI Login Language	English
Licensed Features	

USER MANUAL

CLI Handbook	PDF
User Guide	PDF

SYSTEM RESOURCES

CPU Usage	7%

FEATURE STATUS

SNMP Enable	□ [details]
Logging Enable	□ [details]

ADMIN TOOLS

View Statistics	<--Select-->

SYSTEM/NETWORK CONFIGURATION

Default Route IP 192.168.5.1(IPv4)

Interface Summary

	Interface Name	IPv4	Netmask	IPv6	Prefix Len...	Interface Type	Tag Number	Interface Speed	Interface Status
1	port1	192.168.5.1...	255.255.255.0	-	-	port1	-	autoselect (10...	active

Figure 2-18 Accessing the vxAG Instance via WebUI

2.7 Adding IPs to Other Interfaces

To configure the IP address for other network interfaces:

1. Access the vxAG instance via SSH.

2. Type "**show interface**" to view the interface name.

3. Type "**ip address** *interface name ip netmask*" to add the IP address to the interface.

2.8 Loading the vxAG License

To purchase a license from Array Networks and load the license to the system, please execute the following steps:

1. Access the vxAG instance via SSH.
2. Capture the output for the software version, model and serial number of the vxAG by executing the “**show version**” command.
3. Contact Array Networks Customer Support by email with the vxAG information and your license options (such as maximum sessions, maximum virtual portals, time duration/trial) to obtain a valid license key.
4. Typically, the license key will be emailed to you.Once received, execute the “**system license**” command in the Config mode, paste the license key and press “Enter”. The license will be successfully loaded.

Alternatively, you can load the license via WebUI. To load the license, select **Admin Tools> System Management > License**.

About Array Networks

Array Networks is a global leader in application delivery networking with over 5000 worldwide customer deployments. Powered by award-winning SpeedCore® software, Array application delivery, WAN optimization and secure access solutions are recognized by leading enterprise, service provider and public sector organizations for unmatched performance and total value of ownership. Array is headquartered in Silicon Valley, is backed by over 250 employees worldwide and is a profitable company with strong investors, management and revenue growth. Poised to capitalize on explosive growth in the areas of mobile and cloud computing, analysts and thought leaders including Deloitte, IDC and Frost & Sullivan have recognized Array Networks for its technical innovation, operational excellence and market opportunity.

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To purchase Array Networks Solutions, please contact your Array Networks representative at 1-866-MY-ARRAY (692-7729) or authorized reseller

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