

How to install Central WifiManager onto an Amazon AWS Cloud Instance

This document will guide you through the processes involved in setting up Central Wifi Manager in an AWS cloud.

Start off by signing up for a new AWS Account, or if you wish just can use your existing Amazon.com account to sign into AWS.



Once logged in, you may select a datacentre near your region to minimise the latency between the CWM controller and your access points. You can do this by clicking in the top right-hand corner, between your name and the Support link and choosing the appropriate Amazon Datacentre. The under the Compute section select EC2.

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Amazon Web Services			Resource Groups Learn more
Compute	Developer Tools	Internet of Things	A resource group is a collection of
EC2 Virtual Servers in the Cloud	CodeCommit Store Code in Private Git Repositories	AWS IoT Connect Devices to the Cloud	resources that share one or more tags. Create a group for each project,
EC2 Container Service Run and Manage Docker Containers	CodeDeploy Automate Code Deployments	Game Development	application, or environment in your account.
Elastic Beanstalk Run and Manage Web Apps	CodePipeline Release Software using Continuous Delivery	GameLift Deploy and Scale Session-based Multiplayer	Create a Group Tag Editor
Lambda Run Code in Response to Events	Management Tools	Mobile Condees	
Storage & Content Delivery	CloudWatch Monitor Resources and Applications	Mobile Hub	Additional Resources
S3 Scalable Storage in the Cloud	CloudFormation Create and Manage Resources with Templates	Cognito	Getting Started C Read our documentation or view our
CloudFront Global Content Delivery Network	CloudTrail Track User Activity and API Usege	Device Farm	training to learn more about AWS.
Elastic File System PREVIEW Fully Managed File System for EC2	Config Track Resource Inventory and Charges	Test Android, FireOS, and IOS Apps on Real Devices in the Cloud	AWS Console Mobile App C
Glacier Archive Storage in the Cloud	OpsWorks Automate Operations with Chef	Collect, View and Export App Analytics	AWS Console mobile app, available
Import/Export Snowball	Service Catalog Create and Use Standardized Products	Push Notification Service	from Amazon Appstore, Google Play, or iTunes.
Storage Gateway	Trusted Advisor Colimize Performance and Security	Application Services	AWS Marketplace C*
Databasa	Conurity & Identity	Build, Deploy and Manage APIs	Find and buy software, launch with 1- Click and pay by the hour.
RDS	Identity & Access Management	AppStream Low Latency Application Streaming	AWS re:Invent Announcements C
DynamoDB	Directory Service	CloudSearch Managed Search Service	Explore the next generation of AWS cloud capabilities. See what's new
ElastiCache	Inspector PREVIEW	Elastic Transcoder Easy-to-Use Scalable Media Transcoding	Service Health
Redshift	WAF	SES Email Sending and Receiving Service	
Past, cample, Cost-Effective Data Warehousing DMS PREVIEW	Certificate Manager	E SQS Message Queue Service	All services operating normality.
Managed Database Migration Service	 Provision, Manage, and Deploy SSL/TLS Certificates 	Workflow Service for Coordinating Application	Service Health Dashboard
Networking	A A	Components	



Scroll down and pick the appropriate Microsoft Windows Server instance, for this example I will select the Microsoft Windows Server 2012 R2 Base.



Step 2

Since we will only be running a limited number of Access Points I have selected the General purpose, t2.micro instance. This free micro instance has 1 virtual CPU, 1GB of memory, and is Free tier eligible. Then Click Next.

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review												
Step 2: Choose an Instance Type Amizon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.												
Filter by	All instance types 👻	Current generation	Show/Hide Columns									
Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GIB memory, EBS only)												
	Family	~ Туре ~	vCPUs (j) -	Memory (GiB) ~	Instance Storage (GB) (i) -	EBS-Optimized Available (j) -	Network Performance (j) *					
	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate					
	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					
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					Cancel	Review and Launch	Next: Configure Instance Details					
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Configure Instance Details. Leave all settings as default. You may want to check Enable termination protection - Protect against accidental termination, which makes sure you don't delete the instance by accident (this can be enabled/ disabled in the future). Then Click Next.

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Step 3: Configure Instan	nce Details	
Configure the instance to suit your requi	uirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assig	gn an access management role to the instance, and more.
Number of instances	s 👔 1 Launch Into Auto Scaling Group 👔	
Purchasing option	n (j) □ Request Spot instances	
Network	(i) (vpc-e2371087 (172.31.0.0/16) (default) C Create new VPC	
Subnet	t (j) No preference (default subnet in any Availability Z +) Create new subnet	
Auto-assign Public IP	Use subnet setting (Enable)	
Domain join directory	(None Create new directory	
IAM role	e () (None 🗘 C Create new IAM role	
Shutdown behavior	r (j) (Stop \$	
Enable termination protection	n (j) Protect against accidental termination	
Monitoring	[] Enable CloudWatch detailed monitoring	
Tenancy	(i) (Shared - Run a shared hardware instance	
	Additional charges will apply for dedicated tenancy.	
Advanced Details		
	Cancel	Previous Review and Launch Next: Add Storage
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Step 4

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You may add extra Storage capacity, but AWS provides up to 30 GB of EBS Storage.

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Add New Volume										
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Cancel Previous

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nd Launch Next: Tag Inst



Tag Instance. Enter the optional tag to help identify the instance, it is not required in our implementation.



Step 6

Configure Security Group. AWS uses a software firewall to protect the virtual server. To open the relevant firewall ports to enable CWM to communicate with your remote Access Points.

1. Assign a security group: Create a new security group

2.Security group name: CWM Configuration

3. Description: (Enter the optional controller description)

Туре	Protocol	Port Range	Source
RDP	TCP	3389	Anywhere 0.0.0.0/0
SNMP	UDP	161-162	Anywhere 0.0.0.0/0
Syslog	UDP	514	Anywhere 0.0.0.0/0
Listen Port	UDP	8090	Anywhere 0.0.0.0/0
Service POrt	UDP	64768	Anywhere 0.0.0.0/0
FTP	ТСР	9000	Anywhere 0.0.0.0/0
ALG-FTP	ТСР	54000-54999	Anywhere 0.0.0.0/0



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Assign a secur	ity group: Create a new security group			
	Select an existing security group			
Security grou	up name: launch-wizard			
Des	scription: launch-wizard-created 2016-02-11T12:50	3:42.452+00:00		
Type (i)	Protocol (i)	Port Range (i)	Source (i)	
(RDP 🛟	TCP	3389	(Anywhere \$) 0.0.0.0/0	8
✓ Custom TCP Rule	TCP	0	Custom IP \$	8
Custom UDP Rule				
Custom Protocol				
All TCP	0.0.0/0 allow all IP addresses to access your instance. We	recommend setting security group rules to allow access from kn	own IP addresses only.	
All ICMP	,,,,,,,,,,		,	
All traffic				
SSH				
DNS (UDP)				
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Description:	launch-wizard-created 2016-02-11T12:53:42.4	52+00:00		
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Ad Rule Warning Rules with source of 0.0.0.0/0 all	ow all IP addresses to access your instance. We reco	mmend setting security group rules to allow access from kr	rown IP addresses only.	
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Review Instance Launch. Use this page to review your configuration, and when ready, click Launch.

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You will be prompted to Select an existing key pair or create a new key pair. An AWS Key Pair allows you to securely connect to your AWS instance.

Enter a Key Pair name, and click Download Key Pair.

Important: Ensure you have saved the .pem file to a safe place on your computer, click Launch Instances.

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Download the shortcut to the Remote Desktop File.

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Click on **Get Password** (it takes a few minutes for the instance to be launched before the password is available). **Browse** and navigate to the private key file you created when you launched the instance. Select the file and choose Open to copy the entire contents of the file into contents box. Click **Decrypt Password**, and the console displays the default administrator password for the Windows instance. Make a note of the default administrator password, or copy it to the clipboard. You need this password to connect to the instance.

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- If you opened the .rdp file, you'll see the Remote Desktop Connection dialog box.
- If you saved the .rdp file, navigate to the downloads directory, and open the .rdp file to display the dialog box.

You may get a warning that the publisher of the remote connection is unknown. If you are using Remote Desktop Connection from a Windows PC, choose Connect to connect to your instance.

When prompted, log in to the instance, using the administrator account for the operating system and the password that you recorded or copied previously. If your Remote Desktop Connection already has an administrator account set up, you might have to choose the Use another account option and enter the user name and password manually.



For more information about D-Link: www.dlink.com

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