



DEVNET

DevNet Zone Guide

Plan Your DevNet Zone Journey

Learn | Code | Inspire | Connect



[Join DevNet!](#)

Cisco *live!*

DevNet

January 29 - February 2, 2018 Barcelona



Welcome to the DevNet Zone!

Welcome to the DevNet Zone where you can learn, code, inspire, and connect. Here, you can take a Coding 101 class, complete a learning lab, dig into our hands-on workshops, and be inspired by one of our panel sessions. New this year, is our application developer zone, black hat white hat challenge, and mini-hacks in DevNet Sandbox area - so be sure to give them a try!

And don't forget to meet our DevNet experts including Cisco Distinguished Engineers, Principal Engineers, Evangelists, R&D gurus, and software coders. Seek them out in the DevNet Zone. They'll be everywhere you turn, and can provide you with hands-on support to help you get started on your developer journey!

I also hope to see you on Wednesday at 3:20 p.m. for the 'Rise of the Network APIs' Innovation Showcase where you can see and learn about exciting innovations and how you can embrace the network as your innovation platform.

Susie Wee VP & CTO, Cisco DevNet | @susiewee

You are invited, join me!
'Rise of the Network APIs' Innovation Showcase
Wednesday at 3:20 p.m. in the C-Max theatre

The Tools & APIs

	The APIs/Tools	Use to...
Analytics & Automation	Cisco Data Virtualization	<ul style="list-style-type: none"> Empower analytics and BI with agile data access and integration.
	Cisco Instant Connect (CIC)	<ul style="list-style-type: none"> Create mobile solutions that enable Push-To-Talk on-premises communications.
	Data Learning Platform (DLP)	<ul style="list-style-type: none"> Interact with and visualize your data, innovate with new ideas and even develop new analytics applications.
Cloud	AppDynamics	<ul style="list-style-type: none"> Gain real-time visibility into how applications are working in test, pre-production and production environments.
	Cisco + Google	<ul style="list-style-type: none"> Combine the power of cloud developer resources and enterprise apps, get hands-on with the hybrid cloud solution.
	Contiv	<ul style="list-style-type: none"> Open source networking solutions for modern compute workloads.
	Meraki APIs	<ul style="list-style-type: none"> Cloud solution enabling you to manage your network, which has APIs for things like Location Services for custom apps, and more.
	Microservices & Containers	<ul style="list-style-type: none"> Host applications on a virtual machine hosting environment directly into the branch router.
	OpenStack	<ul style="list-style-type: none"> Create public, private, and hybrid clouds.
Collaboration	Zeus	<ul style="list-style-type: none"> Gain insight from your logs and metrics data, from any source, in one place.
	Finesse APIs	<ul style="list-style-type: none"> Integrate traditional contact center functions into a thin-client desktop.
	Jabber APIs	<ul style="list-style-type: none"> Create interactive web and mobile applications using the Jabber Web SDK and Jabber Guest APIs.
	Remote Expert Mobile SDKs	<ul style="list-style-type: none"> Integrate real time voice/video communications and collaboration capabilities such as co-browse, file share and annotation features natively into iOS, Android and industry leading browsers.
	Spark APIs & xAPIs	<ul style="list-style-type: none"> Create Chat Assistants/Bots to automate your existing enterprise processes. Push notifications to persistent chat rooms, extending visibility on your business activity and operations. Come learn more about xAPIs.
Coding	Spark SDKs & Widgets	<ul style="list-style-type: none"> Embed audio and video calling and messaging into your mobile apps or website.
	101s on REST, GiT, and more	<ul style="list-style-type: none"> Learn the basics of software development and APIs.
Data Center	ACI APIs	<ul style="list-style-type: none"> Administer the network. Create, implement, and show network configurations.
	Open NX-OS	<ul style="list-style-type: none"> Build a rich software suite on a Linux foundation that exposes APIs, data models, and programmatic constructs. Using APIs and configuration agents, operators can affect configuration changes in a more programmatic way.
	UCS Director	<ul style="list-style-type: none"> Automate the IT processes that you design by providing a single point to automate & orchestrate your IT infrastructure.
	UCS Management and UCS Programmable Infrastructure	<ul style="list-style-type: none"> Provide a common interface for Unified and Hyper-Converged UCS deployments. Combine with UCS Director and Cloud Center APIs for complete programmatic access for infrastructure, devops, and application developers.
IoT	Cisco Kinetic	<ul style="list-style-type: none"> Provide a secure platform to connect your sensors and devices and deliver data from them to applications.
	Cisco Kinetics for Cities	<ul style="list-style-type: none"> Extract data from to compute and move disparate information, giving leaders insights for better city management and money saving operations that help their communities thrive (formerly known as Smart+Connected Digital Platform).
	IoT Data Connect	<ul style="list-style-type: none"> Connect, secure, and manage data streams from devices to applications.
	IOx/Fog	<ul style="list-style-type: none"> Provide a seamless app enablement framework and compute platform across various devices operating at the network edge with the ability to host apps & services and connect them securely and reliably to apps in the cloud.
Mobility	CMX Mobility Services APIs	<ul style="list-style-type: none"> Provide indoor location-based services within your mobile applications.
	Fast Lane Validation Program	<ul style="list-style-type: none"> Ensure iOS apps are QoS tagged appropriately and prioritized on the WiFi network.
	Meraki APIs	<ul style="list-style-type: none"> Locate devices real-time, collect marketing data, engage customers with Bluetooth, and automate your deployment.

The Tools & APIs

The APIs/Tools

Use to...

	The APIs/Tools	Use to...
Networking	ACI	<ul style="list-style-type: none"> The Cisco ACI programmability model allows complete programmatic access to the application centric infrastructure. With it you can build your own applications with ACI App Center, integrate networking into cloud and microservice deployment tools, and leverage NetDevOps tooling like Ansible.
	Day 0 Provisioning	<ul style="list-style-type: none"> Provisioning with ZTP, POAP, Plug and Play with PXE, automate provisioning of new devices, never pull out a blue console cable again!
	DNA APIs	<ul style="list-style-type: none"> Learn the APIs associated with DNA, an enterprise SDN controller for policy-based automation of network infrastructure.
	Host Applications at the Edge	<ul style="list-style-type: none"> Run applications at the edge of the network, directly on your routers and switches. See how Guest Shell and IOx allow running everything from Linux utilities and Python scripts to full blown containerized applications on the same devices providing critical connectivity for IoT, branch office deployments, data center fabrics and much more!
	IOS XE	<ul style="list-style-type: none"> Open and programmable operating system optimized for the next generation of enterprise campus and wide area networks.
	NetDevOps	<ul style="list-style-type: none"> Explore how NetDevOps brings the culture, technical methods, strategies, and best practices of DevOps to Networking. Get hands-on with Configuration Management applications such as Ansible, Puppet, and Chef to automate network operations.
	NETCONF/RESTCONF/YANG	<ul style="list-style-type: none"> Simplify the automation and configuration process with new industry standard device interfaces and data models.
	Network Automation with Python	<ul style="list-style-type: none"> Use Python for network automation, it's not the the only language used but the combination of being an easy to learn language plus tons of code samples and utilities has made it a go-to for network engineers.
	Network Services Orchestrator	<ul style="list-style-type: none"> NSO provides end-to-end automation to design and deliver network services faster, enabled by Tail-f.
	Open NX-OS	<ul style="list-style-type: none"> Open NX-OS on the Cisco Nexus platform exposes APIs, data models, and programmatic constructs. Using APIs and configuration agents, operators can affect configuration changes in a more programmatic way.
Streaming Telemetry	<ul style="list-style-type: none"> Explore the new standard, push-based alternative to SNMP that provides customizable data collection and output formats over the gRPC and NETCONF protocols. 	
Open Source	Contiv	<ul style="list-style-type: none"> Open source networking solutions for modern compute workloads.
	FD.io	<ul style="list-style-type: none"> Process tens of millions of packets on a single commodity CPU core using VPP, DPDK, and other open source components.
	Joy	<ul style="list-style-type: none"> Capture and analyze network flow and intraflow data, for network research, forensics, and security monitoring.
	OpenDaylight	<ul style="list-style-type: none"> Automate your network using an open source, standards-based network infrastructure.
	OpenStack	<ul style="list-style-type: none"> Deploy and operate a private cloud for VM and/or container based workloads.
	OPNFV	<ul style="list-style-type: none"> Accelerate the evolution of Network Functions Virtualization (NFV) with system integration, test, and deployment.
	PNDA	<ul style="list-style-type: none"> Deliver an extensible and scalable 'big data' platform for network data analytics applications.
	SNAS	<ul style="list-style-type: none"> Framework to collect, track and access tens of millions of routing objects (routers, peers, prefixes) in real time.
	TRex	<ul style="list-style-type: none"> Validate and stress test your network with generic or app specific traffic with this open source traffic generator.
	YANG	<ul style="list-style-type: none"> Full, formal contract language with rich syntax and semantics for network data.
Security	Cisco Umbrella APIs	<ul style="list-style-type: none"> Provides API access to Umbrella threat intelligence and provides querying of our threat database to find emerging threats.
	CSTA	<ul style="list-style-type: none"> Cisco Security Technical Alliance Program - share data with SIEM, MOM, EDM, IR, Vulnerability Management and more.
	pxGrid	<ul style="list-style-type: none"> Multivendor, cross-platform network system that pulls together different parts of an IT infrastructure.
	Firepower Management Center (FMX) REST APIs	<ul style="list-style-type: none"> Enable NGFW and legacy Firepower devices to third party orchestration as well as SDN, NFV, and more. Add-on includes the new Cisco Threat Intelligence Director APIs.
	Snort	<ul style="list-style-type: none"> Open source intrusion prevention system capable of real-time traffic analysis and packet logging.
Virtual Dev Tools	Sandbox	<ul style="list-style-type: none"> Free 24x7 hosted labs for integrating and working with Cisco, Open Source & Third Party technologies and more!
	VIRL	<ul style="list-style-type: none"> Test and deploy networks quickly and consistently with VIRL.

Classrooms | Panels | Workshops

Come to the DevNet Zone to learn, code, get inspired, and connect!

Check the Cisco Live Content Catalog online to find specific DevNet sessions based on technology, learning path, session type, technical level, and more!

Have a question? Come ask us at the DevNet Info Desk!

Tuesday | Theater and Classrooms 1 & 2

Time	Title	Speakers	Location	Session ID
11:00 - 11:45	Coding 1002: Getting Started with Python	Matt DeNapoli	Theater	DEVNET-3602
1:00 - 1:45	How to Be a Network Engineer in a Programmable Age	Hank Preston		DEVNET-1725
2:00 - 2:45	DevNet Panel: Applying Design Thinking to Building Products in Cisco	Susie Wee, Edwin Zhang, Michael Kopcsak, Hallgrim Sagen, Jason Cyr, & Francesca Barrientos		DEVNET-1794
3:00 - 3:45	Explore the Programmability Options of DNA Center for Managing Network Intent	Adam Radford		DEVNET-3603
4:00 - 4:45	Embed Calling and Messaging in Your Apps with the Cisco Spark SDK	Olivier Proffit & Phil Bellanti		DEVNET-1822
5:00 - 5:45	Everything about Bluetooth Apps and Asset Tracking	Colin Lowenberg		DEVNET-1795
11:00 - 11:45	Coding Class - Introduction to Git	Ashley Roach	Classroom 1	DEVNET-1080
1:00 - 1:45	Hybrid Cloud Automation using Cisco CloudCenter API	Ray Doerr		DEVNET-1651
2:00 - 2:45	Coding 1001 - Intro to APIs and REST	Matt DeNapoli		DEVNET-3607
3:00 - 3:45	Using OpenDaylight	Charles Eckel		DEVNET-1119
4:00 - 4:45	Empower your Testing with Cisco Test Automation Solution	Siming Yuan, Jean Benoit Aubin, & Sedy Yadollahi		DEVNET-1480
5:00 - 5:45	Your API Toolbelt: Tools and Techniques for Testing, Monitoring, and Troubleshooting REST API Requests	Adam Kalsey		DEVNET-1631
1:00 - 1:45	Getting Started with OpenStack	Charles Eckel	Classroom 2	DEVNET-1101
2:00 - 2:45	Tour of the Latest Spark API Features	David Staudt & Stève Sfartz		DEVNET-3609
3:00 - 3:45	Programmability and Automation on Cisco Nexus Platforms	Krishna Chaitanya		DEVNET-1467
4:00 - 4:45	An Introduction to Developing for Cisco Kinetic - Data Control Module	Krishna Chengavalli		DEVNET-1068
5:00 - 5:45	Introduction to Threat Intelligence Capabilities in the Threat Grid API	Ben Greenbaum		DEVNET-2164

Tuesday | Workshops 1 & 2

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	DevNet Workshop: UCS Director Automation - Creating and Utilizing Custom Tasks and Script Modules	John McDonough	Workshop 1	DEVNET-2564
10:00 - 10:45	DevNet Workshop: Vagrant Up for the Network Engineer NX-OS, IOS-XE, IOS-XR	Hank Preston		DEVNET-1365
11:00 - 11:45	DevNet Workshop: Build a DevOps CICD Pipeline	Hank Preston		DEVNET-2203
1:00 - 1:45	DevNet Workshop: Creating a REST API Microservice using OpenAPI Spec	Ashley Roach		DEVNET-2587
2:00 - 2:45	DevNet Workshop: VIRT APIs	Brian Daugherty		DEVNET-3000
3:00 - 3:45	DevNet Workshop: Managing Cisco UCS with the Python SDK	John McDonough		DEVNET-2060
4:00 - 4:45	DevNet Workshop: From Zero to a Network Application with GoLang	Patrick Riel & Stève Sfartz		DEVNET-1814
5:00 - 5:45	DevNet Workshop: How to Work in the DevNet Sandbox	Joseph Kearns		DEVNET-2066
9:00 - 9:45	DevNet Workshop: Dive into Leveraging On-Box Python on IOS-XE and Nexus Devices	Ryan Shoemaker	Workshop 2	DEVNET-2556
10:00 - 10:45	DevNet Workshop: NXOS in the Real World Using NX-API REST	Adrian Iliesiu		DEVNET-2101
11:00 - 11:45	DevNet Workshop: Hands-On Exploration of NETCONF and YANG	Bryan Byrne		DEVNET-2561
1:00 - 1:45	DevNet Workshop: REST APIs and Cisco APIs	Matt DeNapoli		DEVNET-3617
2:00 - 2:45	DevNet Workshop: BYOT - Bring your Own TAC Engineer (no-box TAC python library)	Dmitry Figol & Wojciech Róg		DEVNET-1460
3:00 - 3:45	DevNet Workshop: NetDevOps for the Network Dude - How to Get Started with APIs, Ansible, and Python	Francois Caen		DEVNET-1002
4:00 - 4:45	DevNet Workshop: Nexus Streaming Telemetry	Gerard Sheehan		DEVNET-3618
5:00 - 5:45	DevNet Workshop: Python for Automation with Cisco Network Service Orchestrator (NSO)	Roque Gagliano		DEVNET-2059

Tuesday | Workshops 3 & 4

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	DevNet Workshop: Automation with Meraki Provisioning API	Courtney Batiste	Workshop 3	DEVNET-2120
10:00 - 10:45	DevNet Workshop: Building & Deploying Edge Applications	Jock Reed		DEVNET-3622
11:00 - 11:45	DevNet Workshop: Creating a Custom Gadget Using the Finesse Javascript Library API	Denise Kwan		DEVNET-1998
1:00 - 1:45	DevNet Workshop: Hands-On with IoT Standards & Protocols	Kareem Iskander & Casey Bleeker		DEVNET-3623
2:00 - 2:45	DevNet Workshop: Build a Spark Bot in AWS Lambda and AWS API Gateway	Kareem Iskander		DEVNET-3677
3:00 - 3:45	DevNet Workshop: Creating Cisco Spark Conversational Bots with BotKit	Stève Sfartz		DEVNET-3071
4:00 - 4:45	DevNet Workshop: Developing Customer Journeys using the Context Service APIs	Sajith Kaima & Brian Cole		DEVNET-2325
5:00 - 5:45	DevNet Workshop: Automation with Meraki Provisioning API	Courtney Batiste		DEVNET-2120
9:00 - 9:45	DevNet Workshop: Cisco Zeus: One-Stop Shop for Real-Time Logs and Metrics Monitoring	Debo Dutta	Workshop 4	DEVNET-2555
10:00 - 10:45	DevNet Workshop: Building an Umbrella Ad Blocker	Bart Jan Menkveld & Christopher van der made		DEVNET-1174
11:00 - 11:45	DevNet Workshop: Getting Started with Containers	Matt Johnson		DEVNET-2042
2:00 - 2:45	DevNet Workshop: Hands-On with CloudCenter and Jenkins	Tuan Nguyen		DEVNET-1769
3:00 - 3:45	DevNet Workshop: Cisco Virtual Infrastructure Manager (VIM) for OpenStack based NFVI Solution	Suhail Syed & Vamsi Krishna Kuppur		DEVNET-2570
4:00 - 4:45	DevNet Workshop: Privacy Scoping	Jonathan Fox		DEVNET-2016

Wednesday | Theater & Classroom 1

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	Introduction to Cisco Threat Intelligence Director APIs	Pramod Chandrashekar	Theater	DEVNET-1774
11:00 - 11:45	Integration Platforms as a Service: Real-World Use Cases with Cisco Spark	Steve Greenberg & David Staudt		DEVNET-2023
1:00 - 1:45	Easily Streamline Workflows by Integrating Business Messaging into Apps	Adam Kasley		DEVNET-1074
3:00 - 3:45	Network Programmability with Cisco ACI	Devarshi Shah & Hank Preston		DEVNET-2000
4:00 - 4:45	Using Cisco pxGrid for Security Platform Integration	Brian Gonsalves		DEVNET-1010
5:00 - 5:45	TalkOps - Using Voice to Manage the Data Center	John McDonough		DEVNET-1364
9:00 - 9:45	Coding 1003 - Working with XML, JSON, YML in Python	Matt DeNapoli	Classroom 1	DEVNET-3611
10:00 - 10:45	Introduction to OpenConfig	Santiago Alvarez		DEVNET-1775
11:00 - 11:45	Coding 2002 - Useful Python Libraries, Frameworks, and Features to Master	Matt DeNapoli		DEVNET-3612
1:00 - 1:45	Accelerate your Dev Cycle with DevNet Sandbox Remote Labs	Dan Klinger		DEVNET-1214
2:00 - 2:45	Coding 2001 - Doing More with REST	Matt DeNapoli		DEVNET-3613
3:00 - 3:45	GoLang 101 for IT Pros	Stève Sfartz & Patrick Riel		DEVNET-1808
4:00 - 4:45	Cisco Spark ChatBots 101: Design, Code, and Deploy	Stève Sfartz		DEVNET-3604
5:00 - 5:45	Learn How Cisco Network Assurance Engine Can Help Predict Outages	Navneet Yadav		DEVNET-1699

Wednesday | Classroom 2 & Workshop 1

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	Firepower REST API - Migration and Threat Centric Policy Use Cases	Krishan Veer	Classroom 2	DEVNET-1698
10:00 - 10:45	Cisco Spark Widgets Technical Drill Down	Adam Weeks & Stève Sfartz		DEVNET-1891
1:00 - 1:45	Cisco Spark SDK Video - Overview and Coding Demo	Olivier Proffit & David Staudt		DEVNET-2026
2:00 - 2:45	Managing Edge Compute with Kinetic	Jock Reed		DEVNET-3614
3:00 - 3:45	Advanced Telemetry Demo	Viktor Osipchuk		DEVNET-1710
4:00 - 4:45	CloudCenter for Developers	Conor Murphy		DEVNET-1198
5:00 - 5:45	Application Hosting on IOS-XE	Bryan Byrne		DEVNET-1695
9:00 - 9:45	DevNet Workshop: Creating a REST API Microservice using OpenAPI Spec	Ashley Roach	Workshop 1	DEVNET-2587
10:00 - 10:45	DevNet Workshop: UCS PowerTool Suite - Secrets, Tips, and Tricks	John McDonough		DEVNET-2061
11:00 - 11:45	DevNet Workshop: Hands-On Kicking the Tires of RESTCONF	Bryan Byrne		DEVNET-2585
1:00 - 1:45	DevNet Workshop: UCS Director Automation - Creating and Utilizing Custom Tasks and Script Modules	John McDonough		DEVNET-2564
2:00 - 2:45	DevNet Workshop: How to Work in the DevNet Sandbox	Joseph Kearns		DEVNET-2066
3:00 - 3:45	DevNet Workshop: Using YANG to Create Network-Layer APIs	Giles Heron & Charles Eckel		DEVNET-2324
4:00 - 4:45	DevNet Workshop: VIRT APIs	Brian Daugherty		DEVNET-3000
5:00 - 5:45	DevNet Workshop: From Zero to a Network Application with GoLang	Patrick Riel & Stève Sfartz	DEVNET-1814	

Wednesday | Workshops 2 & 3

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	DevNet Workshop: BYOT - Bring Your Own TAC Engineer (no-box TAC python library)	Dmitry Figol & Wojciech Róg		DEVNET-1460
10:00 - 10:45	DevNet Workshop: Python & Cisco Stuff	Matt DeNapoli		DEVNET-3621
11:00 - 11:45	DevNet Workshop: Mastering ACI Programmability and Automating Common DC Tasks	Krishna Chaitanya		DEVNET-2001
1:00 - 1:45	DevNet Workshop: Get Hands-On with DNA Center APIs for Managing Intent	Adam Radford	Workshop 2	DEVNET-3620
2:00 - 2:45	DevNet Workshop: Nexus Streaming Telemetry	Gerard Sheehan		DEVNET-3618
3:00 - 3:45	DevNet Workshop: Python & Cisco Stuff	Matt DeNapoli		DEVNET-3621
4:00 - 4:45	DevNet Workshop: Get Hands-On with YDK for Network Device Programmability the Pythonic Way!	Giles Heron		DEVNET-3619
5:00 - 5:45	DevNet Workshop: Python for Automation with Cisco Network Service Orchestrator (NSO)	Roque Gagliano		DEVNET-2059
9:00 - 9:45	DevNet Workshop: Analytics with Meraki CMX Location API	Cory Guynn		DEVNET-2115
10:00 - 10:45	DevNet Workshop: Hands-On with IoT Standards & Protocols	Kareem Iskander & Casey Bleeker		DEVNET-3623
11:00 - 11:45	DevNet Workshop: Finesse APIs: Getting Started with the REST APIs and XMPP Events	Denise Kwan		DEVNET-1024
1:00 - 1:45	DevNet Workshop: Building & Deploying Edge Applications	Jock Reed	Workshop 3	DEVNET-3622
2:00 - 2:45	DevNet Workshop: From Zero to Extending Cisco Spark & Running Your Own Bot	Tessa Mero		DEVNET-1881
3:00 - 3:45	DevNet Workshop: Cisco Spark Hands-On: Magical ChatBots with IBM Watson	Koushik Ramamurthy & David Staudt		DEVNET-2321
4:00 - 4:45	DevNet Workshop: Hands-On with the Spark SDK Video Widget Features	David Staudt		DEVNET-3006
5:00 - 5:45	DevNet Workshop: Hands-On with the Spark SDK Video Features for ios	Jonathan Field		DEVNET-2075

Wednesday | Workshop 4

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	DevNet Workshop: Privacy Scoping	Jonathan Fox	Workshop 4	DEVNET-2016
10:00 - 10:45	DevNet Workshop: Best REST in OpenStack	Vikram Hosakote		DEVNET-2004
11:00 - 11:45	DevNet Workshop: Best Practices for Using the Firepower eStreamer API to Create Splunk Applications	Gregg Berson		DEVNET-2590
2:00 - 2:45	DevNet Workshop: Getting Started with Containers	Matt Johnson		DEVNET-2042
3:00 - 3:45	DevNet Workshop: Getting Started with OpenStack	Shannon McFarland		DEVNET-1211



Don't miss the panel sessions in the DevNet theater!

- **Applying Design Thinking to Building Products in Cisco**
DEVNET-1794, Tuesday at 2 p.m.
- **European DevNet Pros**
DEVNET-2399, Thursday at 2 p.m.

Grab a seat and start coding in our **Learning Labs!**



Check out the **DevNet Sandbox** demo, play IoT foosball, and take a mini-hack!

Thursday | Theater & Classroom 1

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	Demystifying Container Networking	Matt Johnson	Theater	DEVNET-1195
10:00 - 10:45	An Introduction to Kinetic for Developers	Casey Bleeker		DEVNET-1605
11:00 - 11:45	Hands-On New Tech: Fast and FREE with DevNet Sandbox	Jacob Adams & Tom Davies		DEVNET-3606
1:00 - 1:45	Kuber-what?! Learn about Kubernetes!	Ashley Roach		DEVNET-1999
2:00 - 2:45	DevNet Panel: European DevNet Pros	Moderator: Stève Sfartz		DEVNET-2399
3:00 - 3:45	Designing Cloud Native Applications with Microservices and Containers	Hector Morales		DEVNET-1230
4:00 - 4:45	NetDevOps Style Configuration Management for the Network	Hank Preston		DEVNET-3616
5:00 - 5:45	Understanding Encrypted Traffic Using “Joy” for Monitoring and Forensics	Bill Hudson		DEVNET-1218
9:00 - 9:45	Cisco UCS Agentless Configuration Management - Ansible or Microsoft Desired State Configuration	John McDonough	Classroom 1	DEVNET-2916
10:00 - 10:45	Who Wants to be a Millionaire? A Class in Creating your own Currency on Blockchain	Vallard Benincosa & Tom Davies		DEVNET-3626
11:00 - 11:45	Use the Infrastructure, Luke!	Ashley Roach		DEVNET-1047
1:00 - 1:45	TRex an Open Source Realistic Traffic Generator	Hanoch Haim		DEVNET-1120
2:00 - 2:45	Integrating VIRT into a NetOps Work-flow	Ralph Schmieder		DEVNET-2769
3:00 - 3:45	Machine Learning with Python	Dmitry Figol		DEVNET-2163
4:00 - 4:45	Model-Driven Telemetry for IOS XE	Krishna Kotha		DEVNET-1693
5:00 - 5:45	Insights into your WLC with Wireless Streaming Telemetry	Jeremy Cohoe		DEVNET-1801

Thursday | Classroom 2 & Workshop 1

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	Spark APIs for Admin and Serviceability	Stève Sfartz	Classroom 2	DEVNET-3610
10:00 - 10:45	Location Based Application Development Showdown: Cisco Unified Wireless CMX Notifications and Cisco Meraki Location Scanning API	Matt DeNapoli		DEVNET-1057
11:00 - 11:45	APIs Assist Troubleshooting in Manufacturing	Gabriel Zapodeanu		DEVNET-2049
1:00 - 1:45	Deploying a “Data Fabric” for IoT	Casey Bleeker		DEVNET-3615
2:00 - 2:45	Cisco UCS PowerTool - Deploy at Scale	John McDonough		DEVNET-2562
3:00 - 3:45	Creating Great Customer Experiences in IoT with Mobile Connectivity & APIs	Allen Jaeger		DEVNET-2598
4:00 - 4:45	Microservices & Serverless Architecture Principles Applied	Stève Sfartz		DEVNET-1871
5:00 - 5:45	Exploring Tetration APIs	Remi Philippe & Tim Garner		DEVNET-1722
9:00 - 9:45	DevNet Workshop: Build a DevOps CICD Pipeline	Hank Preston	Workshop 1	DEVNET-2203
10:00 - 10:45	DevNet Workshop: An Introduction to Monitoring Encrypted Network Traffic with “Joy”	Phillip Perricone		DEVNET-1215
11:00 - 11:45	DevNet Workshop: Managing Cisco UCS with the Python SDK	John McDonough		DEVNET-2060
1:00 - 1:45	DevNet Workshop: Vagrant Up for the Network Engineer NX-OS, IOS-XE, IOS-XR	Hank Preston		DEVNET-1365
2:00 - 2:45	DevNet Workshop: Using YANG to Create Network-Layer APIs	Giles Heron & Charles Eckel		DEVNET-2324
3:00 - 3:45	DevNet Workshop: An Introduction to Monitoring Encrypted Network Traffic with “Joy”	Phillip Perricone		DEVNET-1215
4:00 - 4:45	DevNet Workshop: UCS PowerTool Suite - Secrets, Tips, and Tricks	John McDonough		DEVNET-2061
5:00 - 5:45	DevNet Workshop: Hands-On Kicking the Tires of RESTCONF	Bryan Byrne		DEVNET-2585

Thursday | Workshops 2 & 3

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	DevNet Workshop: REST APIs & Cisco APIs	Matt DeNapoli		DEVNET-3617
10:00 - 10:45	DevNet Workshop: Hands-On Exploration of NETCONF & YANG	Bryan Byrne		DEVNET-2561
11:00 - 11:45	DevNet Workshop: Dive into Leveraging On-Box Python on IOS-XE & Nexus Devices	Ryan Shoemaker		DEVNET-2556
1:00 - 1:45	DevNet Workshop: NXOS in the Real-World Using NX-API REST	Adrian Iliesiu	Workshop 2	DEVNET-2101
2:00 - 2:45	DevNet Workshop: Get Hands-On with DNA Center APIs for Managing Intent	Adam Radford		DEVNET-3620
3:00 - 3:45	DevNet Workshop: Mastering ACI Programmability and Automating Common DC Tasks	Krishna Chaitanya		DEVNET-2001
4:00 - 4:45	DevNet Workshop: Get Hands-On with YDK for Network Device Programmability the Pythonic Way!	Giles Heron		DEVNET-3619
5:00 - 5:45	DevNet Workshop: NetDevOps for the Network Dude - How to Get Started with APIs, Ansible & Python	Francois Caen		DEVNET-1002
9:00 - 9:45	DevNet Workshop: Analytics with Meraki CMX Location API	Cory Guynn		DEVNET-2115
10:00 - 10:45	DevNet Workshop: Build a Spark Bot in AWS Lambda & AWS API Gateway	Kareem Iskander		DEVNET-3677
11:00 - 11:45	DevNet Workshop: Cisco Spark Hands-On: Magical ChatBots with IBM Watson	Koushik Ramamurthy & David Staudt		DEVNET-2321
1:00 - 1:45	DevNet Workshop: Finesse APIs: Getting Started with the REST APIs & XMPP Events	Denise Kwan	Workshop 3	DEVNET-1024
2:00 - 2:45	DevNet Workshop: From Zero to Extending Cisco Spark & Running Your Own Bot	Tessa Mero		DEVNET-1881
3:00 - 3:45	DevNet Workshop: Hands-On with the Spark SDK Video Features for ios	Jonathan Field		DEVNET-2075
4:00 - 4:45	DevNet Workshop: Hands-On with the Spark SDK Video Widget Features	David Staudt		DEVNET-3006
5:00 - 5:45	DevNet Workshop: Creating Cisco Spark Conversational Bots with BotKit	Stève Sfartz		DEVNET-3071

Thursday | Workshop 4

Time	Title	Speakers	Location	Session ID
9:00 - 9:45	DevNet Workshop: Hands-On with CloudCenter and Jenkins	Tuan Nguyen		DEVNET-1769
10:00 - 10:45	DevNet Workshop: Building an Umbrella Ad Blocker	Bart Jan Menkveld & Christopher van der made		DEVNET-1174
11:00 - 11:45	DevNet Workshop: Cisco Zeus: One-Stop Shop for Real-Time Logs and Metrics Monitoring	Debo Dutta		DEVNET-2555
1:00 - 1:45	DevNet Workshop: Cisco Virtualized Infrastructure Manager (VIM) for OpenStack based NFVI Solution	Suhail Syed & Vamsi Krishna Kuppur	Workshop 4	DEVNET-2570
2:00 - 2:45	DevNet Workshop: Best Practices for Using the Firepower eStreamer API to Create Splunk Applications	Gregg Berson		DEVNET-2590
3:00 - 3:45	DevNet Workshop: Best REST in OpenStack	Vikram Hosakote		DEVNET-2004
5:00 - 5:45	DevNet Workshop: Getting Started with OpenStack	Shannon McFarland		DEVNET-1211



**Join
DEVNET**

developer.cisco.com/join/CLEUR18

**New and existing DevNet members
win in the DevNet Zone!**

Learning Labs: Find a Seat, Start Coding, & Connect Buildings

Here is just an example of the types of labs that you'll find in the DevNet Zone. Find a seat and start coding!
Have a question or want to know more about a topic? Our team is standing by!

Analytics & Automation

- DevNet Data Learning Platform - The DevNet Data Learning Platform (DLP) consists of a set of the most common open source and commercial tools for data transformation, data visualization, and data processing.

Cloud

- Cloud Native Development - Learn about containers, microservices, and more.
- Infinite Toolkit - Start using the Infinite Toolkit API to develop your own cloud client using digital TV services.
- IOx - Become an Edge Computing Ninja & build and deploy an IOx app.
- Meraki APIs - Learn how to use the Meraki dashboard and about building a WiFi hotspot.

Collaboration

- From ZERO to a ChatBot in less than an hour (nodejs) - Learn how to build and deploy a Spark ChatBot.
- Cisco Spark APIs - Learn to build engaging User eXperiences with Cisco Spark cloud platform. These labs will take you from Zero to understanding the capabilities of the Cisco Spark APIs. You'll learn to build and deploy ChatBots, as well as adding Calls and Video to existing apps.
- Finesse APIs - Understand the basic Finesse User REST APIs and then add XMPP events.
- Jabber Guest - Embed Cisco Jabber Guest voice and video capabilities into a sample Web application.
- Jabber Web SDK - Make a live voice and video call from a browser.

Data Center

- Advanced ACI Programmability - Think you know it all? Try the advanced level of ACI programmability.
- Introduction to ACI Programmability - Learn the basics.
- Intermediate ACI Programmability - Step up your game with the next level of ACI programmability.

Mobility

- Create a QoS Fast lane enabled app and learn how to optimize your iOS app for business.

Network Programming

- Network Device Level APIs - Get an introduction to Device Level Interfaces, such as NETCONF/YANG.
- Getting Started with Controllers - Learn about using controllers like APIC-EM and Python.
- Open NX-OS Programmability - Learn about NX-OS and NXAPI REST.
- Adding APIC-EM to Your Home Lab - Learn how to use the APIC-EM controller in your home environment.

Security

- Programming with Firepower - Learn how to take control of threats and reduce time-to-evolve using REST based lightweight, easy-to-use API option for managing Firepower Threat Defense (NGFW) and legacy Firepower devices through a Firepower Management Center (FMC).

Software Coding

- Python Coding Fundamentals - Learn Git, Python, and JSON coding to build your skills.
- Introduction to REST APIs - Get an introduction about using REST APIs in your coding and how to call REST APIs from Python.

Virtual Development and Testing

- Sandbox - Navigate in the DevNet Sandbox portal, browse through labs, reserve a learning lab, and perform simple commands and learn how to use git with servers to share your work with others.
- Virtual Internet Routing Lab (VIRL) - Learn how to use VIRL and VM Maestro to create and manage network simulations.

New! DevNet Challenges

Hack, Defend, and Win!

Come play the Black Hat, White Hat Security Challenge

>>> Hack

Embrace your inner hacker and try to access the network

>>> Defend

Be the heavily-armed Cisco defender that saves the day

>>> Win

Collect your prize and claim your bragging rights

DevNet Sandbox 15-Minute Challenge

Grab a seat and dig into one of our five-minute mini-hacks. **Or**, if you're feeling plucky, attempt all three!

Compete against the clock, the fastest time each day wins a prize! Try one or take the challenge and do them all in 15 minutes:

1. Network Programmability with NETCONF/YANG
2. Collaboration with API Calling & Voice
3. IoT with Cisco IOx

Helpful Hint: Go to the Learning Labs and complete the NETCONF/YANG and Collaboration Learning Labs before the mini-hacks. These labs will give you the skills you need!

DevNet Zone Demos

Don't miss our exciting partner solutions and demos!

Our Partners

- Metsi
- Netnuvem

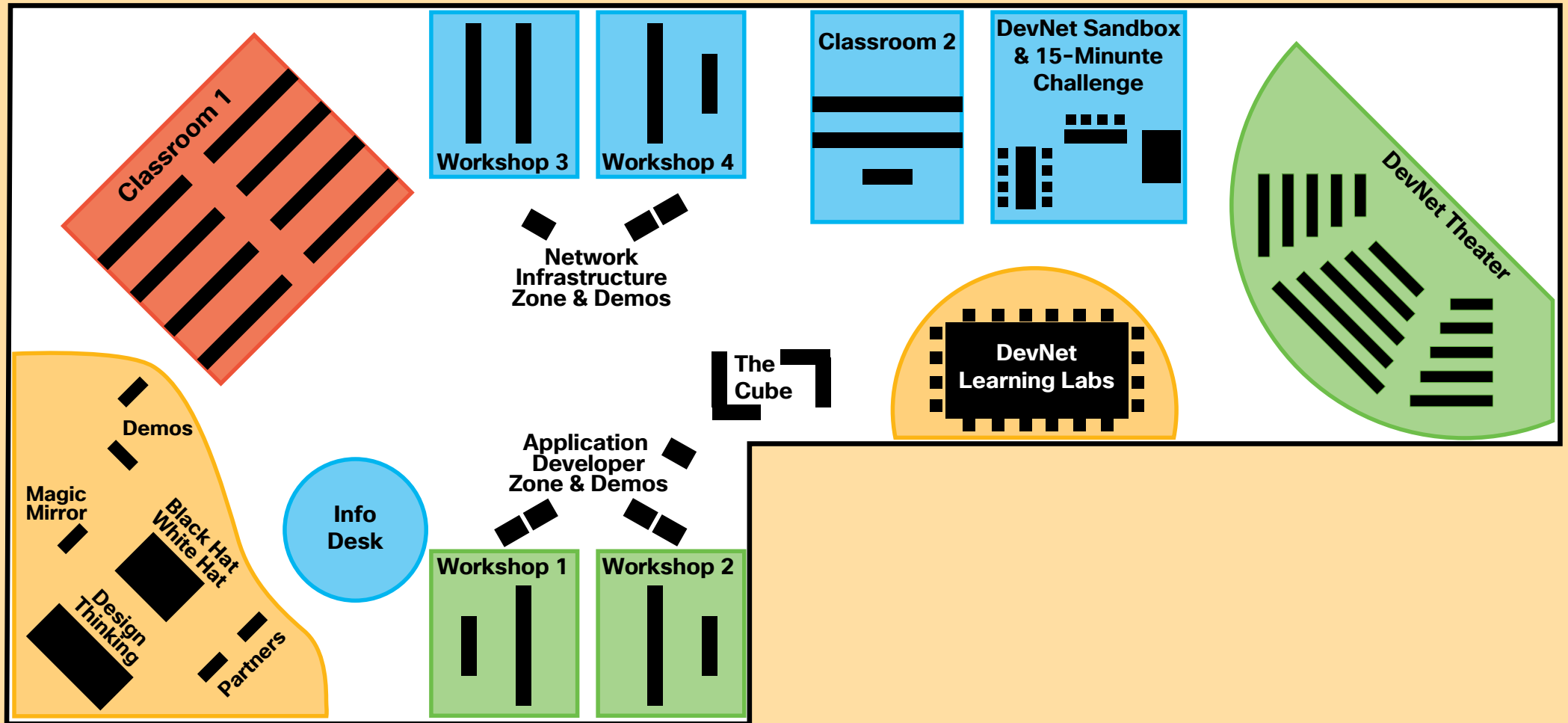
Demos

- Application Hosting and Code at the Edge
- Cloud App Discovery with SD-AVC Yields x1 Million Efficiency Gain
- Design Thinking
- DevNet Sandbox
- Digitize your Country using Open Data and Cisco APIs
- Embed Messaging and Video in your Apps
- Get Hands-On with Fast Lane
- Get Hands-On with Network Analytics
- Hack, Defend, and Win! Play the Black Hat, White Hat Security Challenge
- Interacting with NetDevOps
- Interfacing Humans to the Internet of Things
- Leveraging Realtime Location Analytics with Meraki
- SD-AVC Cloud Apps Awareness with CASI

Application Developer Learning Challenge

Win a special-edition t-shirt and bragging rights! Complete specific application developer learning activities to win. Go to the Application Developer Zone or Info Desk for details!

DevNet Zone Map



Let's be social!

Connect with us @CiscoDevNet

#DevNet | #CLEUR

